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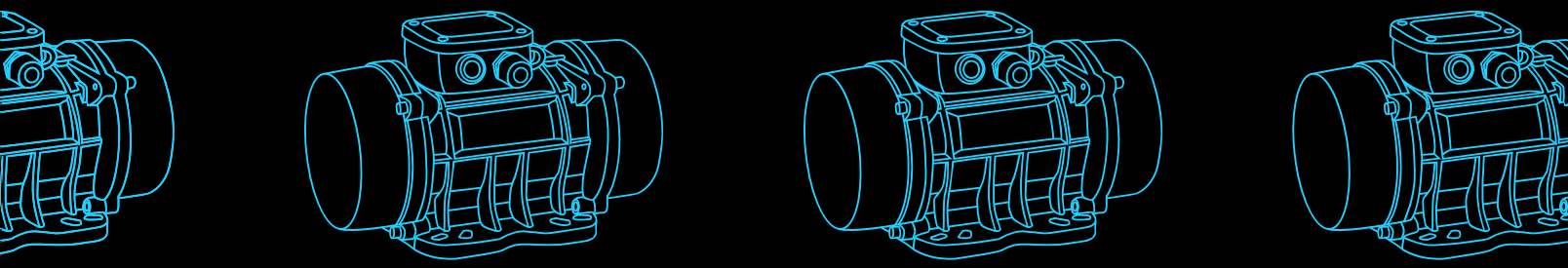
VIBRADORES ELÉCTRICOS



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CVM SERIES

MOTOR VIBRADOR

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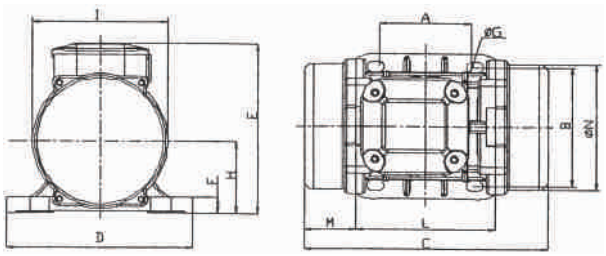
Seguridad • Entrega • Garantía • Confianza

- Medioambiental
- Calidad
- Eficiente
- Tecnología



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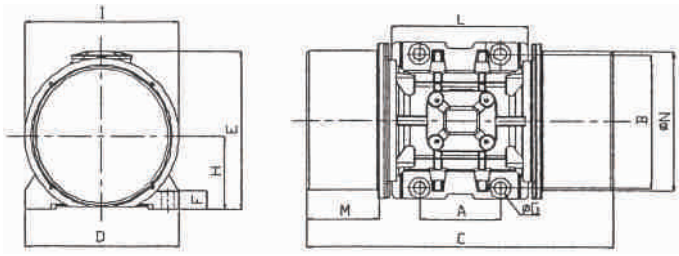


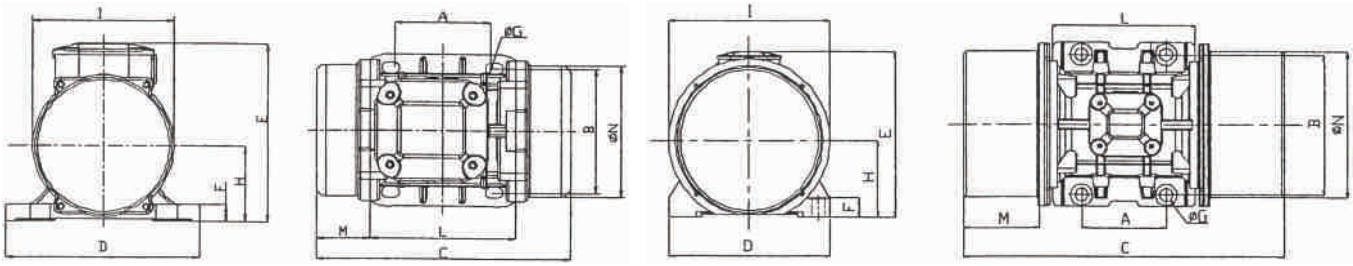
B

2 POLES-3000rpm

Type	Vibrating Force kg	kn	Power(kW)	Efficiency(%)	Current(A)	Weight(kg)	Size
CVM-60/3	71	0.7	0.08	46	0.16	5.6	10
CVM-100/3	99	1	0.1	44	0.19	5.9	10
CVM-200/3	198	2	0.17	60	0.35	7.0	10
CVM-300/3	311	3	0.2	64	0.52	10.4	20
CVM-400/3	400	4	0.2	74	0.58	10.8	20
CVM-500/3	516	5	0.45	77	0.96	18.8	30
CVM-700/3	750	7	0.5	77	1.25	20	30
CVM-800/3	788	8	0.55	79	1.45	21.5	30
CVM-1200/3	1018	10	0.75	82	1.85	22.5	30
CVM-1300/3	1386	13	1.1	76	2.44	24.5	30
CVM-1600/3	1571	16	1.25	81	2.94	51.6	40
CVM-1800/3	1848	18	1.5	81	3.75	52	40
CVM-2000/3	2033	20	2	83	4.07	51.8	40
CVM-2300/3	2310	23	2	83	4.44	53.6	40
CVM-3200/3	3250	32	2.2	76	5.3	96.9	50
CVM-4000/3	4030	40	2.3	76	5.3	107	50
CVM-5000/3	5070	50	3.5	83	7.22	111.2	50

2 POLES-3000rpm

Type	A	B	C	D	E	F	ΦG	H	I	L	M	N	Cable Gland	Fig
CVM-60/3	62-74	106	231	131	159	15	9	64	121	123	54	112	M20x1.5	A
CVM-100/3	62-74	106	231	131	159	15	9	64	121	123	54	112	M20x1.5	A
CVM-200/3	62-74	106	231	131	159	15	9	64	121	123	54	112	M20x1.5	A
CVM-300/3	90	125	273	155	175	15	13	79	142	163	55	131	M20x1.5	B
CVM-400/3	90	125	273	155	175	15	13	79	142	163	55	131	M20x1.5	B
CVM-500/3	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-700/3	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-800/3	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-1200/3	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-1300/3	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-1600/3	140	190	421	229	262	30	17	120	247	225	80	222	M25x1.5	B
CVM-1800/3	140	190	421	229	262	30	17	120	247	225	80	222	M25x1.5	B
CVM-2000/3	140	190	421	229	262	30	17	120	247	225	80	222	M25x1.5	B
CVM-2300/3	140	190	421	229	262	30	17	120	247	225	80	222	M25x1.5	B
CVM-3200/3	155	255	553	302	318	35	25	147	295	288	115	264	M32x1.5	B
CVM-4000/3	155	255	553	302	318	35	25	147	295	288	115	264	M32x1.5	B
CVM-5000/3	155	255	553	302	318	35	25	147	295	288	140	264	M32x1.5	B



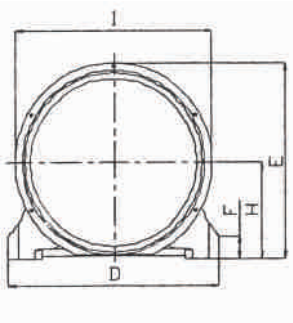
A B

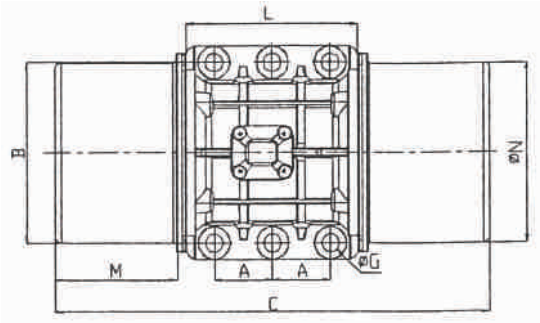
4 POLES-1500 rpm

Type	Vibrating Force kg	kn	Power(kW)	Efficiency(%)	Current(A)	Weight(kg)	Size
CVM-40/4	40	0.4	0.03	33	0.26	5.9	10
CVM-80/4	80	0.8	0.04	36	0.31	7.4	10
CVM-200/4	183	2	0.06	50	0.49	11.8	20
CVM-400/4	388	4	0.3	60	0.84	23.5	30
CVM-500/4	518	5	0.37	68	1.06	24.2	30
CVM-700/4	693	7	0.55	77	1.32	27.4	30
CVM-800/4	807	8	0.6	73	1.36	28.3	30
CVM-1100/4	1045	11	0.6	73	1.4	35.8	30
CVM-1400/4	1406	14	0.85	75	1.78	59.8	40
CVM-1700/4	1757	17	1.1	68	2.09	68.8	40
CVM-2400/4	2420	24	1.3	71	3.2	79	40
CVM-3000/4	3065	30	2.3	79	3.68	125	50
CVM-3800/4	3830	38	2.3	78	4.15	130.4	50
CVM-4300/4	4312	43	2.6	78	4.5	134.4	50
CVM-5500/4	5576	55	2.3	73	6.5	192.2	60
CVM-7200/4	7188	72	3	75	9.6	253	70
CVM-9000/4	8984	90	5.8	83	13.4	268.6	70
CVM-10000/4	10052	100	6.3	82	14.4	311.8	80

4 POLES-1500 rpm

Type	A	B	C	D	E	F	ΦG	H	I	L	M	N	Cable Gland	Fig
CVM-40/4	62-74	106	221	130	136	12	9	48	94	121	54	86	M16x1.5	A
CVM-80/4	62-74	106	231	131	159	15	9	64	121	123	54	112	M20x1.5	A
CVM-200/4	90	125	273	154	175	15	13	79	142	163	55	131	M20x1.5	B
CVM-400/4	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-500/4	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-700/4	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-800/4	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-1100/4	120	170	451	208	210	22	17	94	180	205	123	170	M20x1.5	B
CVM-1400/4	140	190	453	229	262	30	17	120	247	225	96	222	M25x1.5	B
CVM-1700/4	140	190	453	229	262	30	17	120	247	225	96	222	M25x1.5	B
CVM-2400/4	140	190	519	229	262	30	17	120	247	225	129	222	M25x1.5	B
CVM-3000/4	155	255	603	302	318	35	23.5	147	295	288	140	264	M32x1.5	B
CVM-3800/4	155	255	603	302	318	35	23.5	147	295	288	140	264	M32x1.5	B
CVM-4300/4	155	255	603	302	318	35	23.5	147	295	288	140	264	M32x1.5	B
CVM-5500/4	180	280	603	332	360	37	26	168	345	304	130	310	M32x1.5	B
CVM-7200/4	200	320	608	378	411	49	28	200	424	325	120	378	M32x1.5	B
CVM-9000/4	200	320	608	378	411	49	28	200	424	325	120	378	M32x1.5	B
CVM-10000/4	125	380	726	452	430	44	39	204	422	367	160	378	M32x1.5	C





C

6 POLES-1000rpm

Type	Vibrating Force kg	kn	Power(kW)	Efficiency(%)	Current(A)	Weight(kg)	Size
CVM-50/6	51	0.5	0.03	25	0.38	10.4	20
CVM-200/6	185	1.8	0.15	58	0.63	19.6	30
CVM-300/6	308	3	0.2	64	0.74	26.6	30
CVM-400/6	408	4	0.25	68	0.82	30.5	30
CVM-500/6	510	5	0.37	67	1.22	34	30
CVM-800/6	781	7.8	0.5	66	1.26	61.8	40
CVM-1100/6	1067	11	0.55	68	1.42	79.4	40
CVM-1400/6	1378	14	0.7	68	1.95	81.7	40
CVM-1500/6	1500	15	0.7	68	2	83.6	40
CVM-1600/6	1600	16	0.75	73	2.06	85.4	40
CVM-2100/6	2026	21	1.1	73	2.88	114.3	50
CVM-2600/6	2573	26	1.5	77	3.63	148.6	50
CVM-3000/6	2931	30	1.7	77	4.17	155.4	50
CVM-3800/6	3835	38	2	80	4.67	215.6	60
CVM-4700/6	4721	47	2.35	81	6.01	230.8	60
CVM-5200/6	5193	52	2.6	81	6.92	279.8	70
CVM-6500/6	6491	65	2.9	81	7.76	304.4	70
CVM-8000/6	8018	80	4.5	82	12.6	325.2	70
CVM-9000/6	8936	90	5	81	13.2	337.8	70
CVM-10000/6	10170	100	6.2	83	14.3	385.8	80
CVM-13000/6	12700	130	7	84	16	422.2	80

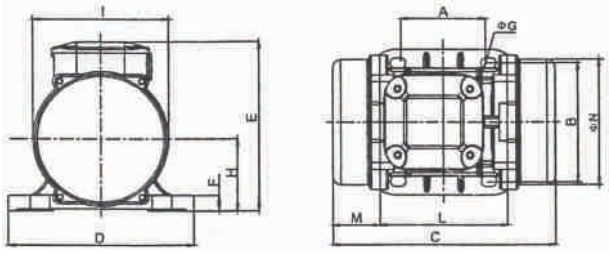
6 POLES-1000rpm

Type	A	B	C	D	E	F	ΦG	H	I	L	M	N	Cable Gland	Fig
CVM-50/6	90	125	273	154	175	15	13	79	142	163	55	131	M20x1.5	B
CVM-200/6	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-300/6	120	170	362	208	210	22	17	94	180	205	78	170	M20x1.5	B
CVM-400/6	120	170	451	208	210	22	17	94	180	205	123	170	M20x1.5	B
CVM-500/6	120	170	451	208	210	22	17	94	180	205	123	170	M20x1.5	B
CVM-800/6	140	190	453	229	262	30	17	120	247	225	96	222	M25x1.5	B
CVM-1100/6	140	190	519	229	262	30	17	120	247	225	129	222	M25x1.5	B
CVM-1400/6	140	190	567	229	262	30	17	120	247	225	154	222	M25x1.5	B
CVM-1500/6	140	190	567	229	262	30	17	120	247	225	154	222	M25x1.5	B
CVM-1600/6	140	190	567	229	262	30	17	120	247	225	154	222	M25x1.5	B
CVM-2100/6	155	255	603	302	318	35	23.5	147	295	288	140	264	M32x1.5	B
CVM-2600/6	155	255	723	302	318	35	23.5	147	295	288	200	264	M32x1.5	B
CVM-3000/6	155	255	723	302	318	35	23.5	147	295	288	200	264	M32x1.5	B
CVM-3800/6	180	280	683	332	360	37	26	168	345	304	170	310	M32x1.5	B
CVM-4700/6	180	280	733	332	360	37	26	168	345	304	195	310	M32x1.5	B
CVM-5200/6	200	320	688	378	411	49	28	200	424	325	160	378	M32x1.5	B
CVM-6500/6	200	320	688	378	411	49	28	200	424	325	160	378	M32x1.5	B
CVM-8000/6	200	320	788	378	411	49	28	200	424	325	210	378	M32x1.5	B
CVM-9000/6	200	320	788	378	411	49	39	200	424	325	210	378	M32x1.5	B
CVM-10000/6	125	380	826	452	430	44	39	204	422	367	210	378	M32x1.5	C
CVM-13000/6	125	380	926	452	430	44	39	204	422	367	260	378	M32x1.5	C

2 POLES SINGLE-PHASE-3000 rpm

Type	Vibrating Force kg	kn	Ferquency (r/min)	Power(kW)	Current(A)	Weight(kg)	Capacitor(μF)	Size
CVM-20S	20	0.2	3000	0.02	0.1	1.5	1.5	5
CVM-60S	66	0.7	3000	0.08	0.43	5.7	4	10
CVM-100S	99	1	3000	0.1	0.54	5.9	5	10
CVM-200S	197	2	3000	0.13	0.71	6.8	5	10
CVM-300S	311	3	3000	0.29	1.58	10	12	20
CVM-400S	400	4	3000	0.31	1.68	10.8	12	20

Type	A	B	C	D	E	F	ΦG	H	I	L	M	N	Cable Gland	Fig
CVM-20S	28-40	94	152	111	85	9	7.5	33	50	84	34	60	M16x1.5	A
CVM-60S	62-74	106	231	130	159	15	9	64	120	123	54	112	M20x1.5	A
CVM-100S	62-74	106	231	130	159	15	9	64	120	123	54	112	M20x1.5	A
CVM-200S	62-74	106	231	130	159	15	9	64	120	123	54	112	M20x1.5	A
CVM-300S	90	125	275	155	177	14	13	79	142	163	55	132	M20x1.5	A
CVM-400S	90	125	275	155	177	14	13	79	142	163	55	132	M20x1.5	A



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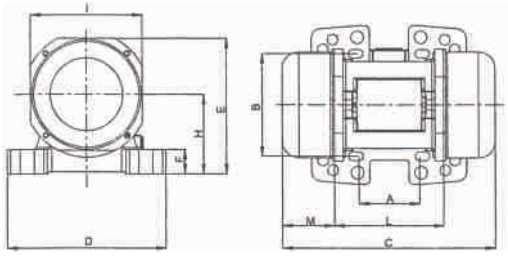

E

DC DIRECT CURRENT-3000 rpm

Type	Volt (V)	Vibrating Force kg	kn	Ferquency (r/min)	Power(kW)	Current(A)	Weight(kg)	Size
CVM-50DC-24	24	50	0.5	3000	0.1	4.2	6	10
CVM-50DC-12	12	50	0.5	3000	0.1	9.4	6	10
CVM-200DC-24	24	200	2	3000	0.16	6.67	6.5	30
CVM-200DC-12	12	200	2	3000	0.16	13.3	6.5	30

Type	A	B	C	D	E	F	ΦG	H	I	L	M	N	Cable Gland	Fig
CVM-50DC-24	62-74	106	231	130	159	15	9	64	120	123	54	112	M20x1.5	A
CVM-50DC-12	62-74	106	231	130	159	15	9	64	120	123	54	112	M20x1.5	A
CVM-200DC-24	62-74	106	218	164	140	25	9	82	116	123	53	110	M20x1.5	E
CVM-200DC-12	62-74	106	218	164	140	25	9	82	116	123	53	110	M20x1.5	E

CVM SERIES Motor Vibrador

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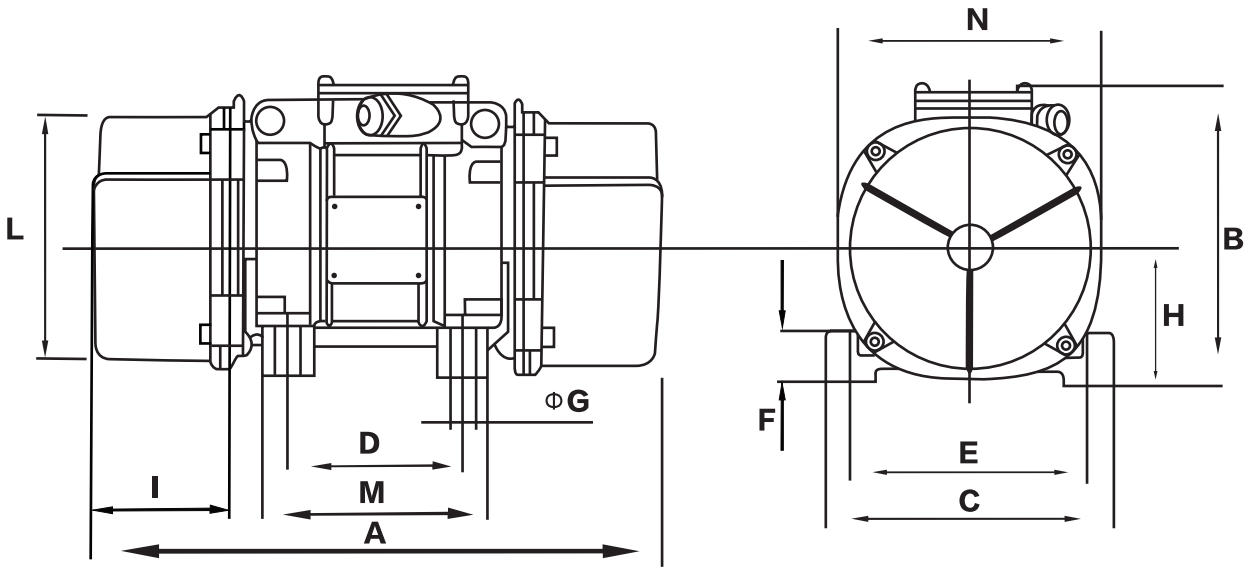
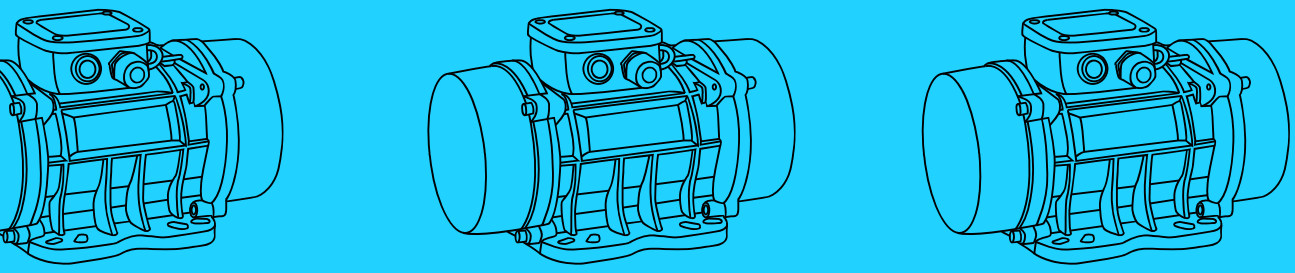


CVM SERIES DIMENSIONAL FEATURES

Frame No	A	B	C	D	E	F	G	H	I	L	M	N
001	230	150	150	110	120	13	11	79	43	124	137	153
002	275	176	170	110	120	13	13	92	72	150	140	140
003	360	188	200	110	140	13	13	98	90	165	160	155
004	420	216	225	140	170	15	15	104	90	195	160	155
005	490	285	209	160	200	25	14	130	213	213	255	155



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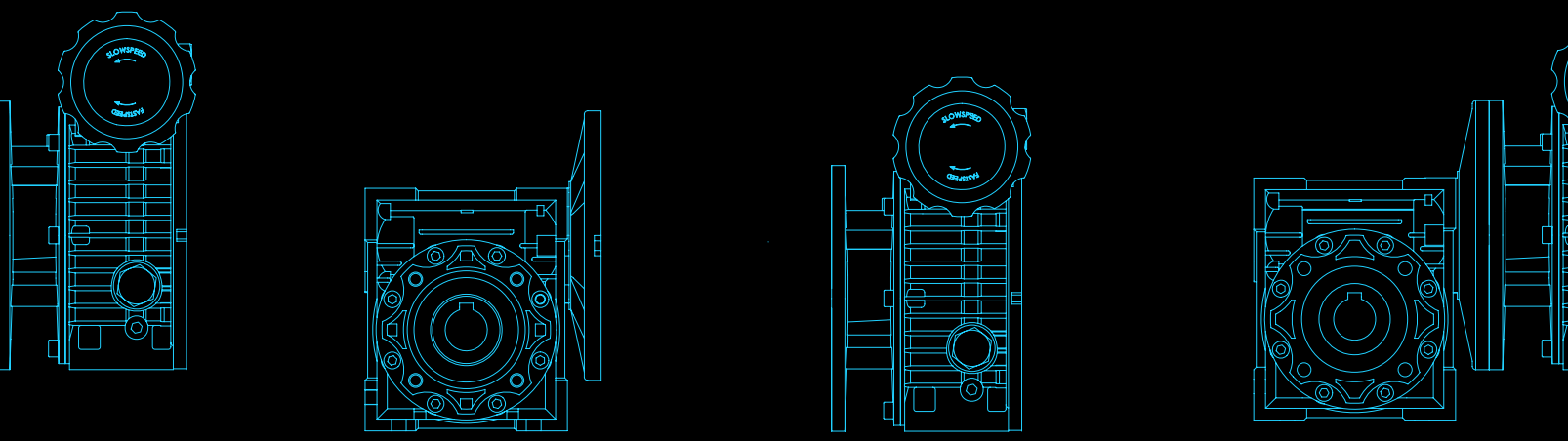

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RSTV025～130

RSTIV030～130

RSTV + RSTV...

RSTIV + RSTV...

PC + RSTV...

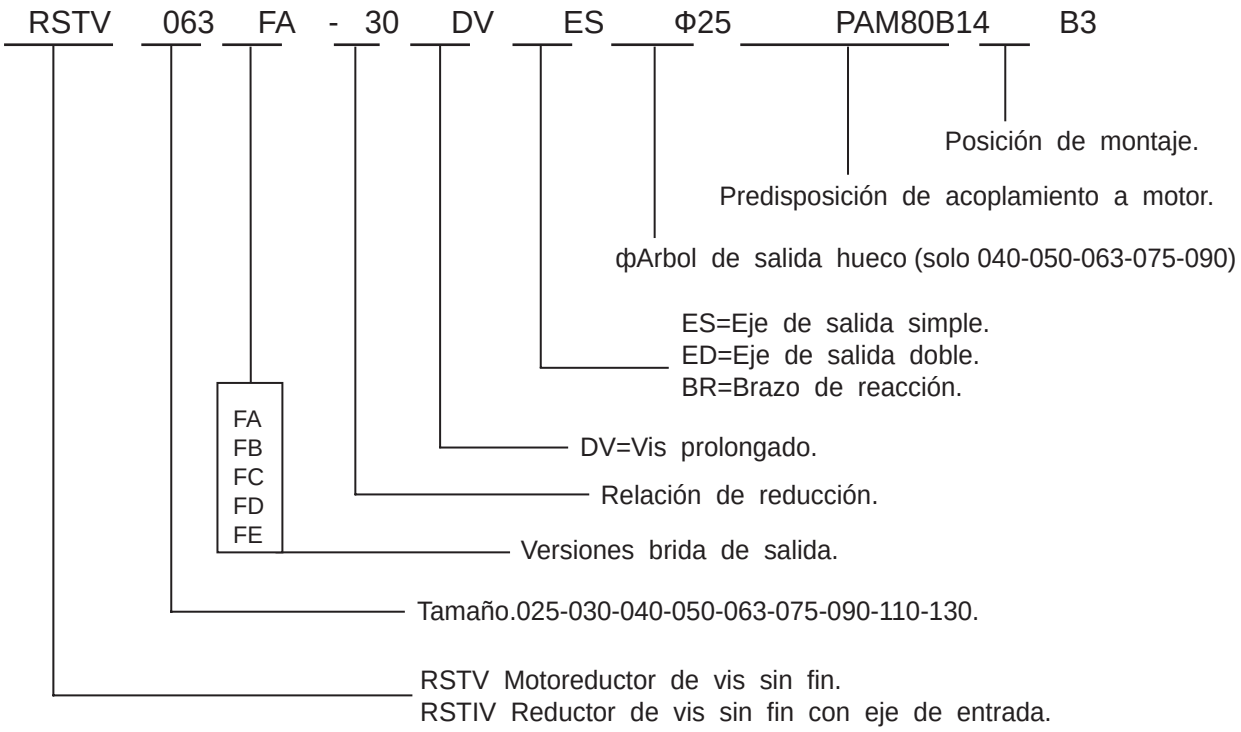
RSTV MOTORREDUCTORES DE CORONA Y SIN FIN
PR + MOTO REDUCTORES Y VARIADORES

Los reductores de vis sin fin de la serie RSTV son una nueva generació de productos desarrollados por nuestra compañía sobre la base de un compromiso de satisfacción a las exigencias de nuestros clientes,se caracterizan por un cinematismo compuesto por un vis de acero cementado y rectificado y una corona fadricada con una aleación de bronce sobre un núcleo de hierro fundido esferoidal.

La serie está compuesta por 9 tamaños con relaciones de reducción entre 1:7.5 hasta 1:100,se fabrican con carcasa de aluminio hasta el modelo 90 y en fundición gris las carcasas de los modelos 110 y 130.

Complementan la gama 3 tamaños de pre-reducciones de un tren de engranajes helicoidales PR, motoreductores combinados con doble reductor,ejes de salida simples,dobles y brazos de reacción.

Designación



PR + RSTV MOTO REDUCTORES DE TORNILLO SIN FIN CON PREREDUCCION

Designación

PR 071 RSTV 063 FA - 30 DV ES Φ25 PAM80B14 B3

- PR Unidad pre-reducción.
- 071 Tamaño.063-071-080-090.
- RSTV Motoreductor de vis sin fin.
- 063 Tamaño.025-030-040-050-063-075-090-110-130.
- FA / FB / FC / FD / FE Versiones brida de salida.
- 30 Relación de reducción.
- DV=Vis prolongado.
- ES=Eje de salida simple. ED=Eje de salida doble. BR=Brazo de reacción.
- Φ25 ΦArbol de salida hueco
- PAM80B14 Predisposición de acoplamiento a motor.
- B3 Posición de montaje.

Durante la instalación deben respetarse las siguientes instrucciones
- Asegurar una alineación correcta entre motor y reductor y entre el reductor y la máquina.
- Instalar el reductor de manera que no sufra vidraciones.
- Observar que los órganos a instalar sobre los ejes cumplan las tolerancias correctas sin correr el riesgo de dañar los rodamientos o las partes externas del reductor.
- Si se preveen sobrecargas, golpes o bloqueos durante el funcionamiento hay que preveer la instalación de coplamientos de seguridad.
- Si se aplican pinturas sobre el reductor se debe proteger el borde exterior de los retenes para evitar que el caucho se deteriore y cause perdidas de lubricante.
- Pulir completamente la superficie donde se debe fijar el reductor y tratar con sustancias protectoras las partes metálicas en contacto antes del motaje para evitar oxidaciones y bloqueos.
- Verificar en el momento de la puesta en funcionamiento que las partes eléctricas llevan las protecciones necesarias.
- Verificar que la tensión de alimentación indicada en las placas de los motores sea la correcta.

Durante el funcionamiento
- Los reductores suministrados sin tapones están lubricados con engrases sintéticos por lo que no equieren ingún tipo de mantenimiento.
- El cambio de aceite para los modelos 110 y 130, que se suministran con aceite mineral,debe realizarae después de 5.000 horas de uncionamiento o después de largos periodos de inactividad. realizarse después de 5.000 horas de funcionamiento o después de largos periodos de inactividad.
- Es necesario verificar la cantidad de aceite necesaria en función de las posiciones de montaje indicadas en las tablas（pág.9）.
- En caso de temperaturas ambiente inferiores a-20℃ o superiores a 40℃ rogamos ponerse en contacto con nuestro departamento técnico.
- Durante la fase de rodaje la temperatura del reductor puede ser un poco más elevada de lo normal.

LUBRICANTES RECOMENDADOS

	℃ -50 0 +50 +100	ISO	SHELL	AGIP	ESSO	MOBIL	CASTROL	BP		
RSTV025～090 PC063～090	-25 +50	VG320	Tivela OIL S320	Telium VSF320	S220	Glygoyle 30	Alphasyn PG320	Energol SG-XP320	WA460	Synthetic oil
RSTV11 0～130	-5 +40	VG460	Omala OIL460	Blasia 460	Spartan EP460	Mobilgear 634	Alpha MAX 460	Energol GR-XP460	WA460	Mineral oil
	-15 +25	VG220	Omala OIL220	Blasia 220	Spartan EP220	Mobilgear 630	Alpha MAX 220	Energol GR-XP220	WA460	
PC	-15 +50	VG320	Tivela OIL S320	Telium VSF320	S220	Glygoyle 30	Alphasyn PG320	Energol SG-XP320	CKC150	Synthetic oil
VTF	-25 +40	VG32	A.T.F.DXRON	A.T.F.DXRON	A.T.F.DXRON	A.T.F.220	TQ.DXRON II	Autran DX	Ub3	Mineral oil

CANTIDAD DE ACEITE EN LITROS

(L)

RSTV	025	030	040	050	063	075	090	110	130	PC	63	71	80	90
B3	0.023	0.05	0.1	0.15	0.3	0.5	1	3	4.5		0.05	0.07	0.15	0.16
B8								2.2	3.3					
B6-B7								2.5	3.5					
V5								3	4.5					
V6								2.2	3.3					

VTF	VTF0.18	VTF0.37	VTF0.55	VTF0.75	VTF1.1	VTF1.5	VTF2.2	VTF3.0	VTF4.0
B3	0.13	0.15	0.33	0.33	0.8	0.8	1.2	1.2	1.2
B8									
B6-B7									
V5	0.3	0.4	0.85	0.85	1.4	1.4	2.15	2.15	2.15
V6	0.2	0.25	0.45	0.45	1	1	1.2	1.2	1.2

Cargas radiales y axiales

Cuando la transmisión del movimiento pueda provocar cargas radiales o axiales en el extremo de los ejes, se debe verificar que éstas nunca superen e n las condiciones más desfavorables a los máximos permitidos.
En la siguiente tabla se indican los valores de las cargas radiales admisibles para los ejes de entrada Fr1. Lacargaaxial se obtiene: Fa1=0.2 × Fr1

nv rpm	Fr1(daN)							
	SF							
	030	040	050	063	075	090	110	130
1400	6	22	32	42	50	70	100	160
900	6	25	35	46	53	80	120	180
700	7	28	40	50	57	90	130	200
500	7	31	45	53	60	100	145	220

En la siguiente tabla se indican los valores de las cargas radiales admisibles en el eje de salida Fr2. La ca rga axial admisible se obtiene： Fa2=0.2 × Fr2

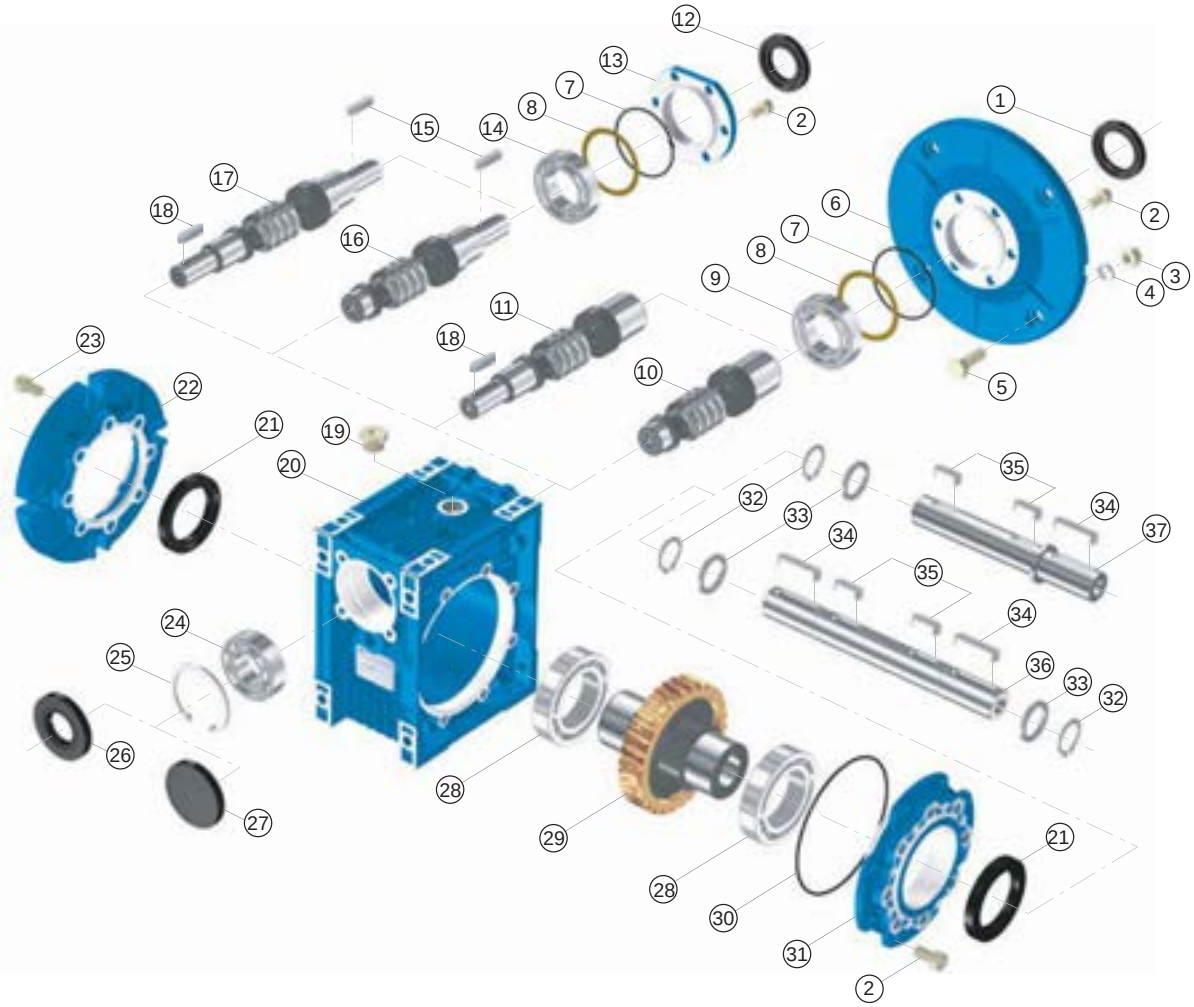
nl rpm	Fa2(daN)							
	SF-MSF							
	030	040	050	063	075	090	110	130
187	65	128	177	233	275	305	386	506
140	73	141	195	256	301	336	424	.556
93	84	162	224	295	346	384	486	638
70	91	178	247	325	383	424	536	702
56	100	194	266	349	414	456	577	756
47	105	205	284	370	439	486	614	804
35	115	225	313	408	484	534	677	885
28	125	244	336	441	520	576	729	954
23	134	259	357	467	554	612	774	1015
17	146	286	394	515	610	674	853	1117
14		308	425	555	656	727	920	1202

(*) Los valores indicados se refieren a las cargas situadas en el centro de los ejes.

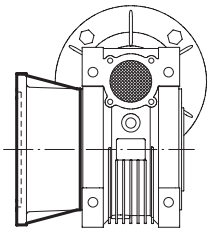
Irreversibilidad

Una de las características de algunos reductores de vis sin fin es la irreversibilidad, es decir que no pueden ser accionados desde el eje de salida. A modo orientativo se muestra la siguiente tabla.

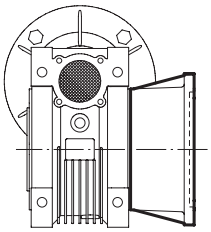
	7.5/1	10/1	15/1	20/1	25/1	30/1	40/1	50/1	60/1	80/1	100/1
030											
040											
050	REVERSIBLES			NEUTROS		IRREVERSIBLES					
063											
075											
090											
110											
130											



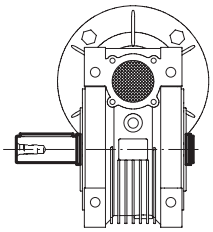
1. oil seal
2. inner hex screw
3. nut
4. spring washer
5. hex screw
6. input flange
7. O-Ring
8. adjust spacer
9. bearing
10. hole input worm
11. hole input and shaft output worm
12. oil seal
13. input cover
14. Bearing
15. key
16. shaft input worm
17. shaft input and shaft output worm
18. key
19. oil plug
20. casing
21. oil seal
22. output flange
23. inner hex screw
24. bearing
25. hole-circlip
26. oil seal
27. cover
28. bearing
29. worm wheel
30. O-Ring
31. output cover
32. shaft-circlip
33. spacer
34. key
35. key
36. double output shaft
37. single output shaft



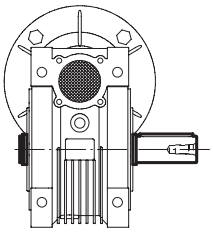
ESTANDAR



LADO CONTRARIO



ESTANDAR



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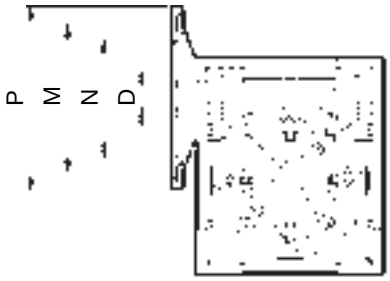
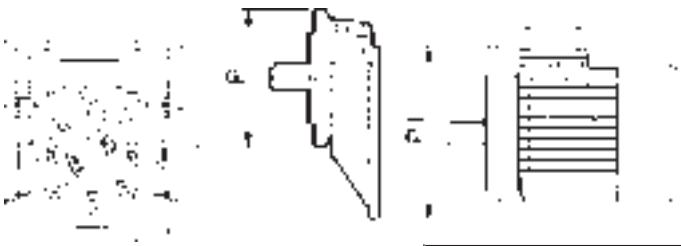


PREDISPOSICION

NMRV	PAM IEC	N	M	P	D										
					7.5	10	15	20	25	30	40	50	60	80	100
025	56B14	50	65	80	9	9	9	9		9	9	9	9		
030	63B5	95	115	140	11	11	11	11	11	11	11	11			
	63B14	60	75	90											
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	
	56B14	50	65	80											
040	71B5	110	130	160	14	14	14	14	14	14	14				
	71B14	70	85	105											
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90											
	56B5	80	100	120								9	9	9	9
050	80B5	130	165	200	19	19	19	19	19	19					
	80B14	80	100	120											
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14	
	71B14	70	85	105											
	63B5	95	115	140							11	11	11	11	11
063	90B5	130	165	200	24	24	24	24	24	24					
	90B14	95	115	140											
	80B5	130	165	200	19	19	19	19	19	19	19	19	19		
	80B14	80	100	120											
	71B5	110	130	160							14	14	14	14	14
	71B14	70	85	105											
075	100/112B5	180	215	250	28	28	28								
	100/112B14	110	130	160											
	90B5	130	165	200	24	24	24	24	24	24	24				
	90B14	95	115	140											
	80B5	130	165	200				19	19	19	19	19	19	19	19
	80B14	80	100	120											
	71B5	110	130	160								14	14	14	14
090	100/112B5	180	215	250	28	28	28	28	28	28					
	100/112B14	110	130	160											
	90B5	130	165	200	24	24	24	24	24	24	24	24	24		
	90B14	95	115	140											
	80B5	130	165	200							19	19	19	19	19
	80B14	80	100	120											
110	132B5	230	265	300	38*	38*	38*	38*							
	100/112B5	180	215	250	28	28	28	28	28	28	28	28	28		
	90B5	130	165	200					24	24	24	24	24	24	24
	80B5	130	165	200										19	19
130	132B5	230	265	300	38*	38*	38*	38*	38*	38*	38*				
	100/112B5	180	215	250					28	28	28	28	28	28	28
	90B5	130	165	200										24	24

PC+RSTV PC+RSTV Combinaciones

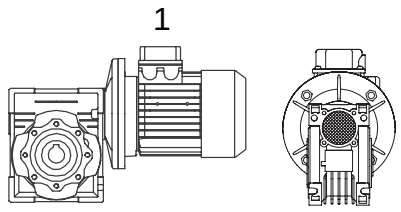
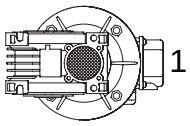
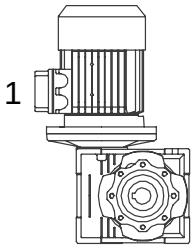
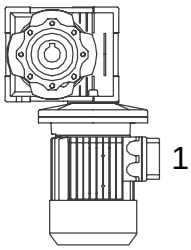
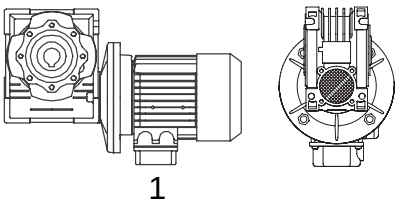
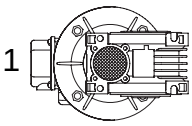
NMRV	i	PC 063		PC 071		PC 080			PC 090		
		105 / 11 i = 3	105 / 14 i = 3	120 / 14 i = 3	120 / 19 i = 3	160 / 19 i = 3	160 / 24 i = 3	160 / 28 i = 3	160 / 19 i = 2.42	160 / 24 i = 2.42	160 / 28 i = 2.42
040	25	■	■								
	30	■	■								
	40	■	■								
	50	■									
	60	■									
	80	■									
	100	■									
050	25		■	■	■						
	30		■	■	■						
	40	■	■	■							
	50	■	■	■							
	60	■	■	■							
	80	■	■	■							
	100	■									
063	25				■						
	30				■						
	40		■	■	■						
	50		■	■	■						
	60		■	■	■						
	80		■	■							
	100		■	■							
075	25				■	■	■		■	■	
	30				■	■	■		■	■	
	40				■	■	■		■	■	
	50			■	■	■			■		
	60			■	■	■			■		
	80			■	■	■			■		
	100			■	■	■			■		
090	25						■	■		■	■
	30						■	■		■	■
	40				■	■	■		■	■	
	50				■	■	■		■	■	
	60				■	■	■		■	■	
	80				■	■			■		
	100				■	■			■		
110	25						■	■		■	■
	30						■	■		■	■
	40						■	■		■	■
	50						■	■		■	■
	60						■	■		■	■
	80					■	■	■	■	■	
	100					■	■		■	■	
130	25							■			■
	30							■			■
	40							■			■
	50							■			■
	60							■			■
	80						■	■		■	■
	100						■	■		■	■

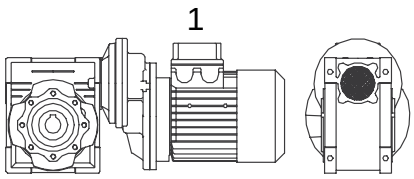
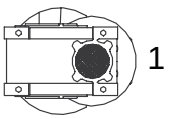
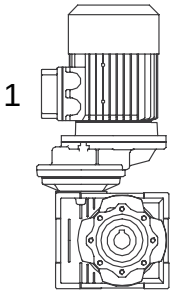
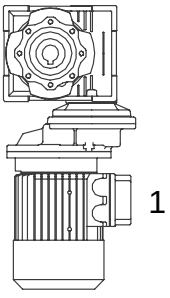
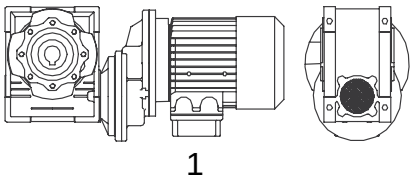
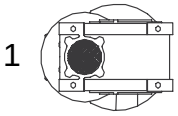


	P1	P	P*
PC 063	63B5-140/11	105/11	105/14*
PC 071	71B5-160/14	120/14	120/19*
PC 080	80B5-200/19	160/19	160/24* 160/28*
PC 090	90B5-200/24	160/24	160/19* 160/28*

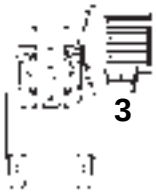
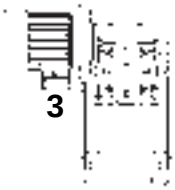
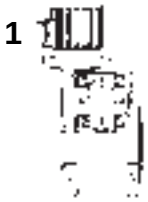
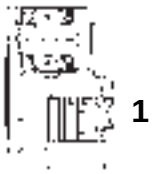
(*) modelo no standard

POSICIONES DE MONTAJE

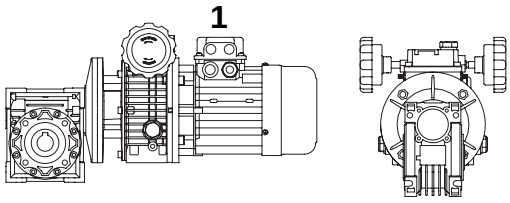
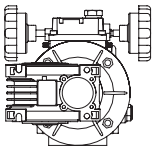
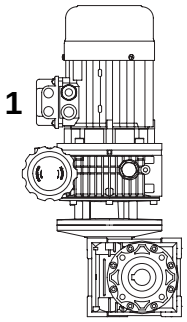
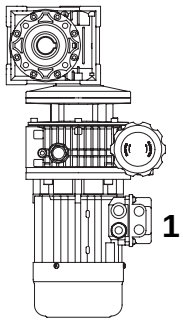
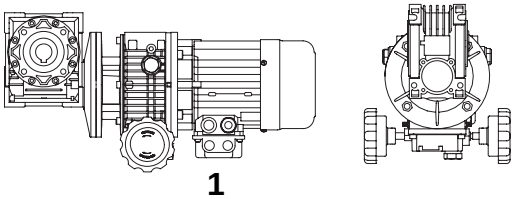
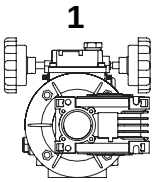
RSTV			
RSTV...U - B3	**B6**	**V5**	**V6**
			
B8	**B7**		
			

PC - RSTV			
RSTV...U - B3	**B6**	**V5**	**V6**
			
B8	**B7**		
			

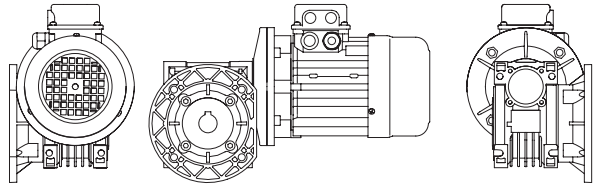
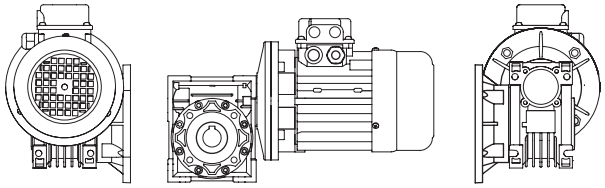
RSTV-RSTV/ RSTIV-RSTV

AS1	AS2	VS1	VS2
			
PS1	**PS2**	**BS1**	**BS2**
			

VTF-RSTV

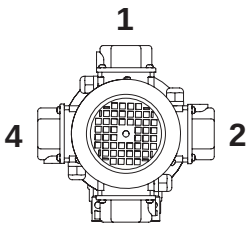
RSTV...U-B3	B6	V5	V6
			
B8	**B7**		
			

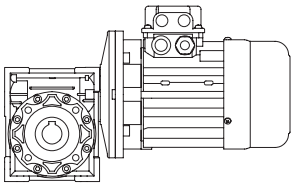
BRIDA F-FB

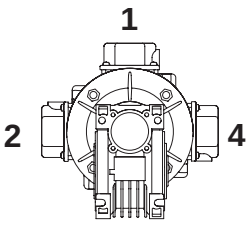
D	S
	

SI NO SE ESPECIFICA , EL REDUCTOR SE MONTA SEGÚN LA POSICIÓN D PARA POSICIÓN B3

POSICIÓN DE LA CAJA DE BORNES

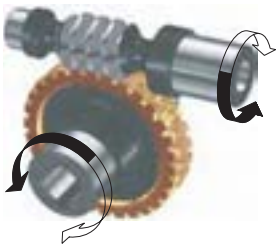




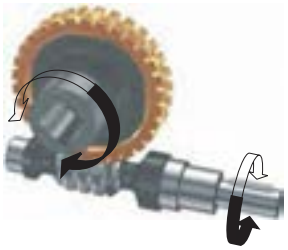


PARA PEDIDOS CON REQUERIMIENTOS ESPECIFICOS, INDICAR POSICIÓN DE LA CAJA DE BORNES SEGÚN EL DIAGRAMA.

DIRECCION DE ROTOCION

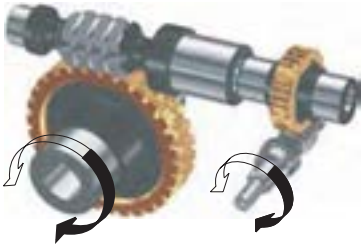


RSTV

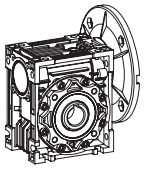


RSTIV

RSTV+RSTV

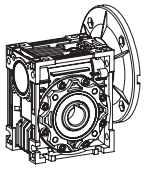


RSTIV+RSTV

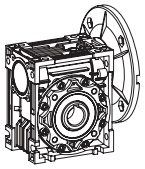


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.06	186.7	2.6	7.5	503	4.2	RSTV025	5614	58
	140	3.4	10	553	3.5			
	93.3	4.9	15	633	2.5			
	70	6.1	20	697	2			
	46.7	8.2	30	798	1.6			
	35	10	40	878	1.3			
	28	12	50	946	0.9			
	23.3	14	60	1006	0.7			
	186.7	2.6	7.5	683	6.9	RSTV030	5614	59
	140	3.4	10	752	5.4			
	93.3	4.7	15	861	3.8			
	70	6	20	948	3			
	56	7	25	1021	3			
	46.7	8	30	1085	2.5			
	35	9.7	40	1194	1.9			
	28	11	50	1286	1.5			
	23.3	13	60	1367	1.3			
	17.5	14	80	1504	0.9			
	14	25	100	1620	1.3	RSTV025+030	5614	71
	9.3	32	150	1830	0.9			
	7	41	200	1830	0.7			
	5.6	44	250	1830	0.8			
	4.7	59	300	3490	1.2	RSTV025+040	5614	71
	3.5	71	400	3490	0.9			
	2.8	82	500	3490	0.7			
	2.3	101	600	3490	0.6			
	1.9	116	750	3490	0.5			
	1.6	143	900	3490	0.5			
	1.2	171	1200	3490	0.4			
	0.9	197	1500	3490	0.3			
	0.8	217	1800	3490	0.3			
	0.6	268	2400	3490	0.2			
	0.5	324	3000	3490	0.2			
	0.4	294	4000	3490	0.1			
	0.3	356	5000	3490	0.1			
	4.7	57	300	3490	1.3	RSTV030+040	5614	72
	3.5	70	400	3490	0.9			
	2.8	96	500	3490	0.6			
	2.3	104	600	3490	0.7			
	1.9	121	750	3490	0.6	RSTV030+040	5614	72
	1.6	139	900	3490	0.5			
	1.2	166	1200	3490	0.4			
	0.9	196	1500	3490	0.4			
	0.8	218	1800	3490	0.3			

PRESTACIONES MOTOREDUCTOR

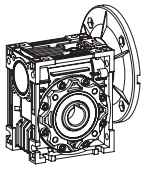


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.06	0.58	261	2400	3490	0.2	RSTV030+040	5614	72
	0.4	300	3200	3490	0.2			
	0.4	279	4000	3490	0.1			
	0.28	338	5000	3490	0.1			
	1.6	141	900	4840	1	RSTV030+050	5614	72
	1.2	169	1200	4840	0.7			
	0.93	199	1500	4840	0.7			
	0.78	222	1800	4840	0.7			
	0.6	266	2400	4840	0.5			
	0.5	307	3000	4840	0.4			
	0.35	288	4000	4840	0.3			
	0.29	311	4800	4840	0.3			
	0.9	204	1500	6270	1.1	RSTV030+063	5614	72
	0.78	225	1800	6270	0.9			
	0.58	276	2400	6270	0.8			
	0.47	319	3000	6270	0.7			
	0.35	306	4000	6270	0.6			
	0.28	360	5000	6270	0.4			
	0.6	330	2400	7380	1.1	RSTV040+075	5614	73
	0.47	377	3000	7380	0.8			
	0.35	355	4000	7380	0.7			
	0.28	419	5000	7380	0.5			
	0.5	406	3000	8180	1.4	RSTV040+090	5614	73
	0.35	365	4000	8180	1.3			
	0.28	431	5000	8180	1			
0.09	373.3	2	7.5	399	3.9	RSTV025	5612	58
	280	2.6	10	439	3.4			
	186.7	3.8	15	503	2.4			
	140	4.9	20	553	1.9			
	93.3	6.7	30	633	1.3			
	70	8.3	40	697	1.1			
	56	10	50	751	0.9			
	186.7	3.9	7.5	503	2.8	RSTV025	5624	58
	140	5.1	10	553	2.4			
	93.3	7.3	15	633	1.6			
	70	9.2	20	697	1.3			
	46.7	12	30	798	1.1			
	35	15	40	878	0.9			
	373.3	2	7.5	542	6.5	RSTV030	5612	59
	280	2.6	10	597	5			
	186.7	3.7	15	683	3.5			
	140	4.8	20	752	2.5			

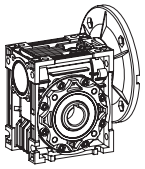


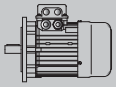
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.09	112	5.7	25	810	2.8	RSTV030	5612	59
	93.3	6.5	30	861	2.3			
	70	8.1	40	948	1.7			
	56	10	50	1021	1.4			
	46.7	11	60	1085	1.1			
	35	13	80	1194	0.9			
	186.7	3.9	7.5	683	4.6	RSTV030	5624	59
	140	5	10	752	3.6			
	93.3	7.1	15	861	2.5			
	70	9	20	948	2			
	56	10	25	1021	2			
	46.7	12	30	1085	1.7			
	35	14	40	1194	1.2			
	28	17	50	1286	1			
	23.3	19	60	1367	0.9			
	28	20	100	1286	1.6	RSTV025+030	5612	71
	18.7	25	150	1472	1.1			
	14	33	200	1620	0.9			
	14	38	100	1620	0.8	RSTV025+030	5624	71
	9.3	49	150	1830	0.6			
	7	62	200	1830	0.5			
	5.6	66	250	1830	0.5			
	4.7	75	300	1830	0.4			
	3.5	107	400	1830	0.3			
	2.8	115	500	1830	0.3			
	2.3	135	600	1830	0.2			
	1.9	151	750	1830	0.2			
	1.6	178	900	1830	0.2			
	1.2	212	1200	1830	0.1			
	0.9	247	1500	1830	0.1			
	0.78	304	1800	1830	0.1			
	0.58	340	2400	1830	0.1			
	0.47	405	3000	1830	0.1			
	28	19	50	2475	2	RSTV040	5624	60
	23.3	21	60	2630	1.7			
	17.5	26	80	2895	1.3			
	14	29	100	3118	1			
	9.3	45	300	3490	1.6	RSTV025+040	5612	71
	7	54	400	3490	1.2			
	5.6	77	500	3490	0.8			
	4.7	88	300	3490	0.8	RSTV030+040	5624	72

PRESTACIONES MOTOREDUCTOR

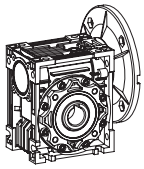


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.09	3.5	107	400	4840	1.2	RSTV030+050	5624	72
	2.8	123	500	4840	1			
	2.3	159	600	4840	0.9			
	1.9	185	750	4840	0.8			
	1.6	212	900	4840	0.7			
	1.6	200	900	6270	1	RSTV030+063	5624	72
	1.2	263	1200	6270	0.9			
	0.93	305	1500	6270	0.7			
	0.9	360	1500	7380	1.1	RSTV040+075	5624	73
	0.78	404	1800	7380	1			
	0.58	496	2400	7380	0.7			
	0.5	609	3000	8180	0.9	RSTV040+090	5624	73
	0.35	548	4000	8180	0.8			
0.12	373.3	2.7	7.5	399	3	RSTV025	5622	58
	280	3.5	10	439	2.6			
	186.7	5	15	503	1.8			
	140	6.5	20	553	1.4			
	93.3	9	30	633	1			
	70	11	40	697	0.8			
	186.7	5.2	7.5	683	3.4	RSTV030	6314	59
	140	6.7	10	752	2.7			
	93.3	9.5	15	861	1.9			
	70	12	20	948	1.5			
	56	14	25	1021	1.5			
	46.7	16	30	1085	1.3			
	35	19	40	1194	0.9			
	28	23	50	1286	0.8			
	46.7	17	30	2087	2.6	RSTV040	6314	60
	35	21	40	2298	1.9			
	28	25	50	2475	1.5			
	23.3	28	60	2630	1.3			
	17.5	34	80	2895	1			
	14	38	100	3118	0.8			
	18.7	42	75	2833	1.2	PC063+RSTV040	6314	67
	15.6	46	90	3011	1.2			
	11.7	57	120	3314	0.9			
	9.3	66	150	3490	0.7			
	7.8	74	180	3490	0.6			
	23.3	29	60	3610	2.3	RSTV050	6314	61
	17.5	35	80	3973	1.9			
	14	40	100	4280	1.4			

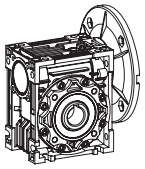


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.12	9.3	68	150	4840	1.3	PC063+RSTV050	6314	67
	7.8	75	180	4840	1.1			
	5.8	88	240	4840	0.8			
	4.7	98	300	4840	0.7			
	4.7	119	300	4840	1.2	RSTV030+050	6314	72
	3.5	142	400	4840	0.9			
	2.8	164	500	4840	0.7			
	5.8	92	240	6270	1.5	PC063+RSTV063	6314	68
	4.7	103	300	6270	1.2			
	2.8	171	500	6270	1.3	RSTV030+063	6314	72
	2.3	208	600	6270	1.1			
	1.9	241	750	6270	0.9			
	1.6	325	900	7380	1.2	RSTV040+075	6314	73
	1.2	399	1200	7380	0.9			
	0.8	547	1800	8180	0.9	RSTV040+090	6314	73
	0.58	695	2400	8180	0.9			
	0.5	884	3000	10320	1.2	RSTV050+110	6314	73
	0.35	784	4000	10320	1			
	0.28	928	5000	10320	0.8			
0.18	373.3	4	7.5	542	3.2	RSTV030	6312	59
	280	5.2	10	597	2.5			
	186.7	7.5	15	683	1.7			
	140	10	20	752	1.3			
	112	11	25	810	1.4			
	93.3	13	30	861	1.1			
	70	16	40	948	0.9			
	186.7	7.8	7.5	683	2.3	RSTV030	6324	59
	140	10	10	752	1.8			
	93.3	14	15	861	1.3			
	70	18	20	948	1			
	56	21	25	1021	1	RSTV030	6324	59
	46.7	24	30	1085	0.8			
	93.3	14	30	1657	2.4	RSTV040	6312	60
	70	18	40	1824	1.8			
	56	21	50	1964	1.4			
	70	19	20	1824	2	RSTV040	6324	60
	56	23	25	1964	1.7			
	46.7	26	30	2087	1.7			

PRESTACIONES MOTOREDUCTOR

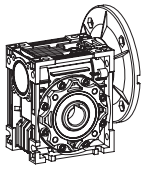


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.18	35	32	40	2298	1.3	RSTV040	6324	60
	28	38	50	2475	1			
	23.3	43	60	2630	0.8			
	45	29	20	2113	1.5	RSTV040	7116	60
	36	34	25	2276	1.3			
	30	38	30	2419	1.3			
	22.5	47	40	2662	1			
	18.7	64	75	2833	0.8	PC063+RSTV040	6324	67
	15.6	70	90	3011	0.8			
	11.7	85	120	3314	0.6			
	46.7	24	60	2865	2.1	RSTV050	6312	61
	35	30	80	3153	1.5			
	28	34	100	3397	1.2			
	35	33	40	3153	2.3	RSTV050	6324	61
	28	39	50	3397	1.9			
	23.3	43	60	3610	1.6			
	17.5	52	80	3973	1.2			
	14	60	100	4280	0.9			
	18	56	50	3936	1.4	RSTV050	7116	61
	15	63	60	4183	1.1			
	11.3	75	80	4604	0.9			
	18.7	64	75	3889	1.4	PC063+RSTV050	6324	67
	15.6	71	90	4132	1.5			
	11.7	87	120	4548	1.1			
	9.3	101	150	4840	0.9			
	7.8	113	180	4840	0.7			
	5.8	133	240	4840	0.6			
	12	95	75	4506	1.2	PC071+RSTV050	7116	68
	10	105	90	4788	1.4			
	7.5	126	120	4840	1			
	15	66	60	5467	2.1	RSTV063	7116	62
	11.3	79	80	6018	1.6			
	9	90	100	6270	1.4			
	9.3	103	150	6270	1.7	PC063+RSTV063	6324	68
	7.8	117	180	6270	1.4			
	5.8	139	240	6270	1			
	4.7	155	300	6270	0.8			

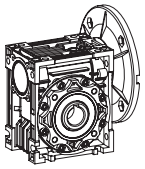


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.18	12	97	75	5889	2.2	PC071+RSTV063	7116	68
	10	107	90	6259	2.4			
	7.5	131	120	6270	1.8			
	6	152	150	6270	1.4			
	5	168	180	6270	1.2			
	3.8	197	240	6270	0.9			
	3	218	300	6270	0.7			
	3.5	222	400	6270	1	RSTV030+063	6324	72
	2.8	257	500	6270	0.8			
	5	179	180	7380	1.7	PC071+RSTV075	7116	69
	3.8	211	240	7380	1.2			
	3	235	300	7380	1			
	2.3	362	600	7380	1.1	RSTV040+075	6324	73
	1.9	435	750	7380	0.9			
	1.6	487	900	7380	0.8			
	1.2	629	1200	8180	1	RSTV040+090	6324	73
	0.93	735	1500	8180	0.8			
	0.8	861	1800	10320	1.5	RSTV050+110	6324	73
	0.58	1113	2400	10320	1.1			
0.25	373.3	5.6	7.5	542	2.3	RSTV030	6322	59
	280	7.2	10	597	1.8			
	186.7	10	15	683	1.3			
	140	13	20	752	0.9			
	112	16	25	810	1			
	93.3	18	30	861	0.8			
	186.7	11	7.5	1315	3.6	RSTV040	7114	60
	140	14	10	1447	2.8			
	93.3	21	15	1657	1.9			
	70	27	20	1824	1.5			
	56	32	25	1964	1.2			
	46.7	36	30	2087	1.3			
	35	44	40	2298	0.9			
	120	17	7.5	1524	2.6	RSTV040	7126	60
	90	22	10	1677	2			
	60	31	15	1920	1.4			
	45	40	20	2113	1.1			
	36	48	25	2276	0.9			
	30	53	30	2419	0.9			
	35	42	80	3153	1.1	RSTV050	6322	61
	28	48	100	3397	0.8			

PRESTACIONES MOTOREDUCTOR

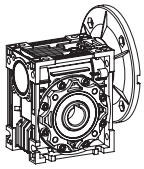


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.25	70	27	20	2503	2.7	RSTV050	7114	61
	56	32	25	2696	2.2			
	46.7	37	30	2865	2.3			
	35	46	40	3153	1.7			
	28	54	50	3397	1.4			
	23.3	60	60	3610	1.1			
	17.5	72	80	3973	0.9			
	45	40	20	2900	1.9	RSTV050	7126	61
	36	48	25	3124	1.5			
	30	54	30	3320	1.7			
	22.5	67	40	3654	1.2			
	18	78	50	3936	1			
	15	88	60	4183	0.8			
	18.7	88	75	3889	1	PC071+RSTV050	7114	68
	15.6	98	90	4132	1.1			
	11.7	121	120	4548	0.8			
	28	56	50	4440	2.4	RSTV063	7114	62
	23.3	63	60	4719	2			
	17.5	78	80	5193	1.6			
	14	87	100	5595	1.4			
	18	81	50	5145	1.8	RSTV063	7126	62
	15	92	60	5467	1.5			
	11.3	110	80	6018	1.2			
	9	125	100	6270	1			
	18.7	91	75	5083	1.8	PC071+RSTV063	7114	68
	15.6	100	90	5401	2			
	11.7	125	120	5945	1.5			
	9.3	143	150	6270	1.2			
	7.8	163	180	6270	1			
	5.8	192	240	6270	0.7			
	4.7	215	300	6270	0.6			
	12	135	75	5889	1.6	PC071+RSTV063	7126	68
	10	148	90	6259	1.8			
	7.5	181	120	6270	1.3			
	6	211	150	6270	1			
	7	159	400	6270	1.4	RSTV030+063	6322	72
	5.6	185	500	6270	1.2			
	17.5	82	80	6130	2.3	RSTV075	7114	63
	14	94	100	6603	1.9			

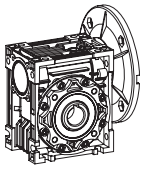


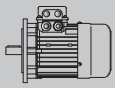
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.25	11.3	117	80	7103	1.7	RSTV075	7126	63
	9	133	100	7380	1.4			
	9.3	151	150	7380	1.7	PC071+RSTV075	7114	69
	7.8	172	180	7380	1.4			
	5.8	201	240	7380	1.1			
	4.7	230	300	7380	0.9			
	12	139	75	6952	2.4	PC071+RSTV075	7126	69
	10	155	90	7380	2.5			
	7.5	191	120	7380	1.9			
	6	219	150	7380	1.5			
	5	248	180	7380	1.2			
	3.5	336	400	7380	1.1	RSTV040+075	7114	73
	2.8	384	500	7380	0.8			
	5	263	180	8180	1.9	PC071+RSTV090	7126	69
	3.8	318	240	8180	1.4			
	3	358	300	8180	1.1			
	2.3	512	600	8180	1.2	RSTV040+090	7114	73
	1.9	598	750	8180	0.9			
	1.6	667	900	8180	0.8			
	1.2	943	1200	10320	1.3	RSTV050+110	7114	73
	0.93	1064	1500	10320	1.2			
	0.78	1195	1800	10320	1.1			
	0.6	1624	2400	13500	1	RSTV063+130	7114	74
	0.47	1935	3000	13500	0.8			
	0.35	2046	4000	13500	0.6			
	0.28	2430	5000	13500	0.5			
0.37	373.3	8.4	7.5	1044	3.3	RSTV040	7112	60
	280	11	10	1149	2.6			
	186.7	16	15	1315	1.9			
	140	21	20	1447	1.4	RSTV040	7112	60
	112	25	25	1559	1.1			
	186.7	16	7.5	1315	2.4	RSTV040	7124	60
	140	21	10	1447	1.9			
	93.3	31	15	1657	1.3			
	70	39	20	1824	1			
	56	47	25	1964	0.8			
	46.7	53	30	2087	0.8			

PRESTACIONES MOTOREDUCTOR

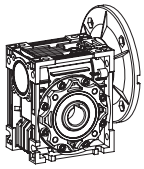


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.37	112	25	25	2140	2	RSTV050	7112	61
	93.3	29	30	2274	2.2			
	70	37	40	2503	1.6			
	56	44	50	2696	1.2			
	46.7	50	60	2865	1	RSTV050	7112	61
	35	62	80	3153	0.7			
	140	22	10	1987	3.3	RSTV050	7124	61
	93.3	31	15	2274	2.4			
	70	40	20	2503	1.8			
	56	48	25	2696	1.5			
	46.7	55	30	2865	1.5			
	35	68	40	3153	1.1			
	28	80	50	3397	0.9	RSTV050	7124	61
	23.3	89	60	3610	0.8			
	120	25	7.5	2091	3.3	RSTV050	8016	61
	90	33	10	2302	2.5			
	60	47	15	2635	1.8			
	45	60	20	2900	1.3			
	36	72	25	3124	1			
	30	80	30	3320	1.1			
	35	71	40	4122	2.1	RSTV063	7124	62
	28	83	50	4440	1.6			
	23.3	94	60	4719	1.4			
	17.5	115	80	5193	1.1			
	14	129	100	5595	0.9			
	45	60	20	3791	2.4	RSTV063	8016	62
	36	74	25	4084	1.9			
	30	82	30	4339	2.1			
	22.5	102	40	4776	1.6			
	18	120	50	5145	1.2			
	15	137	60	5467	1			
	18.7	134	75	5083	1.2	PC071+RSTV063	7124	68
	15.6	148	90	5401	1.4			
	11.7	185	120	5945	1			
	9.3	212	150	6270	0.8			
	9.3	181	300	6270	1.3	RSTV030+063	7112	72
	7	236	400	6270	1			
	23.3	98	60	5569	2	RSTV075	7124	63
	17.5	121	80	6130	1.6			
	14	139	100	6603	1.3			

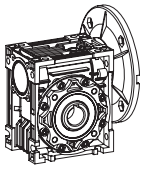


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.37	18	126	50	6073	1.8	RSTV075	8016	63
	15	144	60	6453	1.5			
	11.3	173	80	7103	1.2			
	9	196	100	7380	1			
	18.7	138	75	6000	1.8	PC071+RSTV075	7124	69
	15.6	154	90	6375	1.9			
	11.7	191	120	7017	1.5			
	9.3	223	150	7380	1.1			
	7.8	254	180	7380	0.9			
	12	206	75	6952	1.6	PC080+RSTV075	8016	69
	10	230	90	7380	1.7			
	7.5	283	120	7380	1.3			
	6	324	150	7380	1			
	4.7	405	300	7380	1	RSTV040+075	7124	73
	3.5	498	400	7380	0.7			
	11.3	185	80	7859	1.7	RSTV090	8016	64
	9	212	100	8180	1.3			
	7.8	268	180	8180	1.5	PC071+RSTV090	7124	69
	5.8	321	240	8180	1.1			
	4.7	371	300	8180	0.9			
	6	347	150	8180	1.6	PC080+RSTV090	8016	70
	5	389	180	8180	1.3			
	3.8	471	240	8180	1			
	4.7	402	300	8180	1.5	RSTV040+090	7124	73
	3.5	523	400	8180	1.2			
	2.8	611	500	8180	0.9			
	2.3	757	600	8180	0.8			
	3.8	509	240	10320	1.6	PC080+RSTV110	8016	70
	3	577	300	10320	1.3			
	1.9	950	750	10320	1.3	RSTV050+110	7124	73
	1.6	1079	900	10320	1.2			
	1.2	1396	1200	10320	0.8			
	0.9	1674	1500	13500	1.1	RSTV063+130	7124	74
	0.78	1887	1800	13500	0.9			
0.55	373.3	13	7.5	1044	2.2	RSTV040	7122	60
	280	17	10	1149	1.8			
	186.7	24	15	1315	1.3			
	140	31	20	1447	0.9			
	112	37	25	1559	0.8			

PRESTACIONES MOTOREDUCTOR

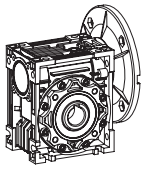


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.55	140	31	20	1987	1.7	RSTV050	7122	61
	112	38	25	2140	1.4			
	93.3	43	30	2274	1.5			
	70	55	40	2503	1.1			
	56	65	50	2696	0.8			
	46.7	74	60	2865	0.7			
	186.7	25	7.5	1805	2.9	RSTV050	8014	61
	140	32	10	1987	2.2	RSTV050	8014	61
	93.3	46	15	2274	1.6			
	70	59	20	2503	1.2			
	56	71	25	2696	1			
	46.7	81	30	2865	1			
	120	38	7.5	2091	2.2	RSTV050	8026	61
	90	49	10	2302	1.7			
	60	69	15	2635	1.2			
	45	89	20	2900	0.9			
	70	56	40	3272	1.9	RSTV063	7122	62
	56	67	50	3524	1.5			
	46.7	77	60	3745	1.2			
	35	95	80	4122	0.9			
	28	109	100	4440	0.7			
	70	61	20	3272	2.2	RSTV063	8014	62
	56	73	25	3524	1.8			
	46.7	83	30	3745	1.9			
	35	105	40	4122	1.4			
	28	124	50	4440	1.1			
	23.3	140	60	4719	0.9			
	60	71	15	3444	2.2	RSTV063	8026	62
	45	90	20	3791	1.6			
	36	109	25	4084	1.3			
	30	123	30	4339	1.4			
	22.5	152	40	4776	1.1			
	35	99	80	4865	1.3	RSTV075	7122	63
	28	114	100	5241	1			
	35	108	40	4865	2	RSTV075	8014	63
	28	129	50	5241	1.6			
	23.3	146	60	5569	1.4			
	17.5	180	80	6130	1.1			
	14	206	100	6603	0.9			

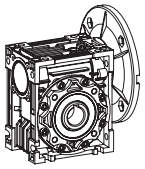


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.55	30	128	30	5122	2	RSTV075	8026	65
	22.5	159	40	5637	1.5			
	18	187	50	6073	1.2			
	15	214	60	6453	1			
	18.7	205	75	6000	1.2	PC080+RSTV075	8014	69
	15.6	230	90	6375	1.3			
	11.7	284	120	7017	1			
	9.3	332	150	7380	0.8			
	12	306	75	6952	1.1	PC080+RSTV075	8026	69
	10	341	90	7380	1.1			
	17.5	189	80	6783	1.5	RSTV090	8014	64
	14	221	100	7306	1.2			
	18	198	50	6719	2	RSTV090	8026	64
	15	224	60	7140	1.6			
	11.3	275	80	7859	1.1			
	9	315	100	8180	0.9			
	15.6	240	90	7054	2.3	PC080+RSTV090	8014	70
	11.7	297	120	7764	1.6			
	9.3	355	150	8180	1.3			
	7.8	398	180	8180	1			
	10	357	90	8174	2	PC080+RSTV090	8026	70
	7.5	441	120	8180	1.4			
	6	516	150	8180	1.1			
	5	578	180	8180	0.9			
	9.3	306	300	8180	2	RSTV040+090	7122	73
	7	403	400	8180	1.5			
	5.6	470	500	8180	1.2			
	17.5	201	80	8571	2.6	RSTV110	8014	65
	14	236	100	9232	2			
	11.3	294	80	9931	1.9	RSTV110	8026	65
	9	338	100	10320	1.5			
	7.8	425	180	10320	1.8	PC080+RSTV110	8014	70
	5.8	513	240	10320	1.3			
	4.7	597	300	10320	1			
	7.5	462	120	10320	2.6	PC080+RSTV110	8026	70
	6	552	150	10320	2			
	5	620	180	10320	1.6			
	3.8	756	240	10320	1.1			

PRESTACIONES MOTOREDUCTOR

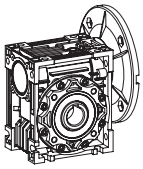


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.55	4.7	639	300	10320	2	RSTV050+110	8014	73
	3.5	826	400	10320	1.4			
	2.8	984	500	10320	1.1			
	2.3	1181	600	10320	1			
	1.9	1411	750	10320	0.9			
	3.8	756	240	13500	1.6	PC080+RSTV130	8026	70
	3	858	300	13500	1.3			
	2.8	996	500	13500	1.6	RSTV063+130	8014	74
	1.9	1471	750	13500	1.2			
	1.2	2132	1200	13500	0.8			
0.75	373.3	17	7.5	1433	3	RSTV050	8012	61
	280	23	10	1577	2.4			
	186.7	33	15	1805	1.7			
	140	42	20	1987	1.3			
	112	51	25	2140	1			
	93.3	58	30	2274	1.1			
	186.7	34	7.5	1805	2.1	RSTV050	8024	61
	140	44	10	1987	1.6			
	93.3	63	15	2274	1.2			
	70	81	20	2503	0.9			
	140	43	20	2597	2.3	RSTV063	8012	62
	112	52	25	2797	1.8			
	93.3	60	30	2973	2			
	70	77	40	3272	1.4			
	56	91	50	3524	1.1			
	46.7	104	60	3745	0.9			
	93.3	64	15	2973	2.2	RSTV063	8024	62
	70	83	20	3272	1.6			
	56	100	25	3524	1.3			
	46.7	114	30	3745	1.4			
	35	143	40	4122	1			
	120	52	7.5	2734	2.9	RSTV063	90S6	62
	90	68	10	3009	2.3			
	60	97	15	3444	1.6			
	45	123	20	3791	1.2			
	36	149	25	4084	0.9			
	30	167	30	4339	1			
	46.7	109	60	4421	1.3	RSTV075	8012	63
	28	156	100	5241	0.8			

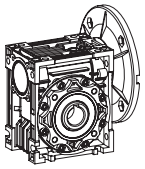


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.75	56	102	25	4160	2	RSTV075	8024	63
	46.7	117	30	4421	2			
	35	147	40	4865	1.5			
	28	177	50	5241	1.2			
	23.3	200	60	5569	1			
	60	98	15	4065	2.4	RSTV075	90S6	63
	45	126	20	4474	1.9			
	36	153	25	4820	1.4			
	30	174	30	5122	1.5			
	22.5	216	40	5637	1.1			
	18.7	280	75	6000	0.9	PC080+RSTV075	8024	69
	15.6	313	90	6375	1			
	35	141	80	5383	1.6	RSTV090	8012	64
	28	166	100	5799	1.2			
	28	184	50	5799	1.8	RSTV090	8024	64
	23.3	212	60	6163	1.5			
	17.5	258	80	6783	1.1			
	14	302	100	7306	0.9			
	30	179	30	5667	2.6	RSTV090	90S6	64
	22.5	226	40	6238	1.8			
	18	271	50	6719	1.4			
	15	306	60	7140	1.1			
	15.6	327	90	7054	1.7	PC080+RSTV090	8024	70
	11.7	405	120	7764	1.2			
	9.3	483	150	8180	0.9			
	7.8	543	180	8180	0.7			
	7	549	400	8180	1.1	RSTV040+090	8012	73
	5.6	642	500	8180	0.9			
	17.5	274	80	8571	1.9	RSTV110	8024	65
	14	322	100	9232	1.5			
	15	325	60	9023	2.1	RSTV110	90S6	65
	11.3	401	80	9931	1.4			
	9	462	100	10320	1.1			
	11.7	430	120	9811	2.2	PC080+RSTV110	8024	70
	9.3	506	150	10320	1.7			
	7.8	580	180	10320	1.3			
	5.8	700	240	10320	0.9			

PRESTACIONES MOTOREDUCTOR

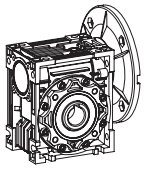


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.75	12.4	393	73	9614	3.2	PC090+RSTV110	90S6	71
	9.3	508	96.8	10320	2.3			
	7.4	607	121	10320	1.8			
	6.2	682	145.2	10320	1.5			
	4.6	832	193.6	10320	1			
	9.3	446	300	10320	2.8	RSTV050+110	8012	74
	7	563	400	10320	2.1			
	5.6	687	500	10320	1.6			
	4.7	871	300	10320	1.5	RSTV050+110	8024	74
	3.5	1126	400	10320	1.1			
	11.3	407	80	12989	2.1	RSTV130	90S6	67
	9	470	100	13500	1.7			
	5.8	712	240	13500	1.4	PC080+RSTV130	8024	71
	4.7	813	300	13500	1.1			
	12.4	399	73	12575	4.4	PC090+RSTV130	90S6	71
	9.3	508	96.8	13500	3.2			
	7.4	607	121	13500	2.6			
	6.2	682	145.2	13500	2.1			
	4.6	832	193.6	13500	1.5			
	3.7	944	242	13500	1.2			
	2.8	1358	500	13500	1.1	RSTV063+130	8024	75
	2.3	1631	600	13500	1			
	1.9	2005	750	13500	0.9			
	1.6	2283	900	13500	0.8			
1.1	373.3	25	7.5	1433	2.1	RSTV050	8022	62
	280	33	10	1577	1.6			
	186.7	48	15	1805	1.2			
	140	62	20	1987	0.9			
	186.7	48	15	2359	2.1	RSTV063	8022	63
	140	63	20	2597	1.6			
	112	77	25	2797	1.2			
	93.3	88	30	2973	1.4			
	70	113	40	3272	1			
	120	76	7.5	2734	2	RSTV063	90L6	63
	90	99	10	3009	1.5			
	60	142	15	3444	1.1			
	45	180	20	3791	0.8			

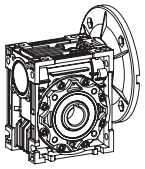


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
1.1	186.7	50	7.5	2359	2.6	RSTV063	90S4	62
	140	65	10	2597	2			
	93.3	93	15	2973	1.5			
	70	122	20	3272	1.1			
	56	146	25	3524	0.9			
	46.7	167	30	3745	1			
	112	78	25	3302	1.9	RSTV075	8022	63
	93.3	90	30	3509	1.9			
	70	116	40	3862	1.4			
	56	139	50	4160	1.1			
	46.7	160	60	4421	0.9			
	90	100	10	3551	2.3	RSTV075	90L6	63
	60	144	15	4065	1.6			
	45	184	20	4474	1.3			
	36	225	25	4820	1			
	30	256	30	5122	1			
	93.3	96	15	3509	2.1	RSTV075	90S4	63
	70	123	20	3862	1.7			
	56	150	25	4160	1.3			
	46.7	171	30	4421	1.3			
	35	216	40	4865	1			
	35	207	80	5383	1.1	RSTV090	8022	64
	28	244	100	5799	0.8			
	36	231	25	5333	1.6	RSTV090	90L6	64
	30	263	30	5667	1.8			
	22.5	331	40	6238	1.2			
	18	397	50	6719	1			
	15	448	60	7140	0.8			
	35	225	40	5383	1.6	RSTV090	90S4	64
	28	270	50	5799	1.3			
	23.3	311	60	6163	1			
	22.5	345	40	7882	2.3	RSTV110	90L6	65
	18	414	50	8491	1.8			
	15	476	60	9023	1.4			
	11.3	588	80	9931	1			
	28	281	50	7328	2.3	RSTV110	90S4	65
	23.3	324	60	7787	1.9			
	17.5	402	80	8571	1.3			
	14	473	100	9232	1			

PRESTACIONES MOTOREDUCTOR

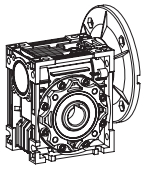


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
1.1	12.4	576	73	9614	2.2	PC090+RSTV110	90L6	70
	9.3	746	96.8	10320	1.6			
	7.4	890	121	10320	1.2			
	6.2	1000	145.2	10320	1			
	19.3	392	73	8298	2.5	PC090+RSTV110	90S4	70
	14.5	508	96.8	9133	1.8			
	11.6	599	121	9838	1.5			
	9.6	686	145.2	10320	1.1			
	7.2	828	193.6	10320	0.8			
	9.3	654	300	10320	1.9	RSTV050+110	8022	73
	7	845	400	10320	1.4			
	5.6	1007	500	10320	1.1			
	11.3	598	80	12989	1.4	RSTV130	90L6	66
	9	689	100	13500	1.1			
	17.5	408	80	11210	2.1	RSTV130	90S4	66
	14	480	100	12076	1.5			
	12.4	585	73	12575	3	PC090+RSTV130	90L6	70
	9.3	746	96.8	13500	2.2			
	7.4	890	121	13500	1.7			
	6.2	1000	145.2	13500	1.4			
	4.6	1220	193.6	13500	1			
	19.3	398	73	10853	3.5	PC090+RSTV130	90S4	70
	14.5	508	96.8	11945	2.6			
	11.6	608	121	12868	2			
	9.6	686	145.2	13500	1.6			
	7.2	843	193.6	13500	1.2			
	5.8	962	242	13500	0.9			
	4.7	1312	300	13500	1.3	RSTV063+130	90S4	74
	3.5	1671	400	13500	1			
	2.8	1991	500	13500	0.8			
1.5	373.3	35	7.5	1433	1.5	RSTV050	80C2	61
	280	45	10	1577	1.2			
	186.7	65	15	1805	0.9			
	186.7	68	7.5	2359	1.9	RSTV063	90L4	62
	140	89	10	2597	1.5			
	93.3	127	15	2973	1.1			
	70	166	20	3272	0.8	RSTV063	90L4	62

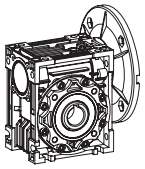


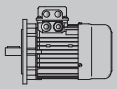
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
1.5	373.3	35	7.5	1873	2.7	RSTV063	90S2	62
	280	46	10	2061	2.1			
	186.7	66	15	2359	1.6			
	140	86	20	2597	1.2			
	112	105	25	2797	0.9			
	93.3	120	30	2973	1			
	120	105	7.5	3227	2	RSTV075	100L6	63
	90	137	10	3551	1.7			
	60	196	15	4065	1.2			
	56	189	50	4160	0.8	RSTV075	90S2	63
	46.7	218	60	4421	0.7			
	140	90	10	3065	2.2	RSTV075	90L4	63
	93.3	130	15	3509	1.5			
	70	168	20	3862	1.3			
	56	205	25	4160	1			
	46.7	233	30	4421	1			
	280	46	10	2433	3.1	RSTV075	90S2	63
	186.7	67	15	2785	2.2			
	140	87	20	3065	1.8	RSTV075	90S2	63
	112	106	25	3302	1.4			
	93.3	123	30	3509	1.4			
	70	158	40	3862	1			
	90	138	10	3929	2.7	RSTV090	100L6	64
	60	201	15	4498	2.1			
	45	258	20	4951	1.5			
	36	314	25	5333	1.2			
	30	358	30	5667	1.3			
	70	172	20	4273	2.1	RSTV090	90L4	64
	56	210	25	4603	1.6			
	46.7	239	30	4891	1.7			
	35	307	40	5383	1.2			
	28	368	50	5799	0.9			
	23.3	424	60	6163	0.8			
	56	194	50	4603	1.4	RSTV090	90S2	64
	46.7	227	60	4891	1.1			
	45	264	20	6256	2.7	RSTV110	100L6	65
	36	322	25	6739	2.4			
	30	363	30	7161	2.3			
	22.5	471	40	7882	1.7			
	18	565	50	8491	1.3			
	15	649	60	9023	1.1			

PRESTACIONES MOTOREDUCTOR

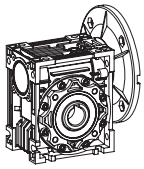


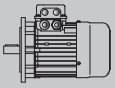
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
1.5	35	319	40	6803	2.2	RSTV110	90L4	65
	28	384	50	7328	1.7			
	23.3	442	60	7787	1.4			
	17.5	548	80	8571	0.9			
	46.7	236	60	6181	2	RSTV110	90S2	65
	35	299	80	6803	1.3			
	28	353	100	7328	1			
	19.3	535	73	8298	1.9	PC090+RSTV110	90L4	70
	14.5	693	96.8	9133	1.3			
	11.6	817	121	9838	1.1			
	9.6	936	145.2	10320	0.8			
	9.3	891	300	10320	1.4	RSTV050+110	90S2	73
	7	1153	400	10320	1			
	5.6	1373	500	10320	0.8			
	22.5	478	40	10309	2.3	RSTV130	100L6	66
	18	573	50	11105	1.8			
	15	659	60	11801	1.4	RSTV130	100L6	66
	11.3	815	80	12989	1.1			
	17.5	557	80	11210	1.5	RSTV130	90L4	66
	14	655	100	12076	1.1			
	19.3	542	73	10853	2.6	PC090+RSTV130	90L4	70
	14.5	693	96.8	11945	1.9			
	11.6	830	121	12868	1.5			
	9.6	936	145.2	13500	1.1			
	7.2	1149	194	13500	0.8			
	9.3	915	300	13500	1.9	RSTV063+130	90S2	74
	7	1166	400	13500	1.4			
	5.6	1389	500	13500	1.1			
	4.7	1789	300	13500	1	RSTV063+130	90L4	74
	3.5	2279	400	13500	0.7			
2.2	373.3	51	7.5	1873	1.8	RSTV063	90L2	62
	280	67	10	2061	1.5			
	186.7	97	15	2359	1.1			
	186.7	100	7.5	2785	1.8	RSTV075	100LA4	63
	140	132	10	3065	1.5			
	93.3	191	15	3509	1			

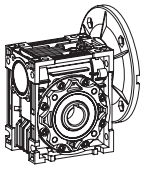


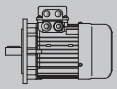
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
2.2	373.3	51	7.5	2210	2.5	RSTV075	90L2	63
	280	68	10	2433	2.1			
	186.7	98	15	2785	1.5			
	140	128	20	3065	1.3			
	112	156	25	3302	1			
	93.3	180	30	3509	0.9			
	186.7	101	7.5	3081	2.9	RSTV090	100LA4	64
	140	134	10	3391	2.3			
	93.3	194	15	3882	1.9			
	70	252	20	4273	1.4			
	56	308	25	4603	1.1			
	46.7	351	30	4891	1.2			
	120	156	7.5	3570	2.2	RSTV090	112M6	64
	90	203	10	3929	1.8			
	60	294	15	4498	1.4			
	45	378	20	4951	1			
	140	131	20	3391	2	RSTV090	90L2	64
	112	159	25	3653	1.6			
	93.3	185	30	3882	1.7			
	70	237	40	4273	1.2			
	56	285	50	4603	0.9			
	70	255	20	5399	2.5	RSTV110	100LA4	65
	56	315	25	5816	2.2			
	46.7	356	30	6181	2			
	35	468	40	6803	1.5			
	28	563	50	7328	1.2			
	23.3	648	60	7787	1			
	90	205	10	4965	3.5	RSTV110	112M6	65
	60	298	15	5684	2.6			
	45	388	20	6256	1.9			
	36	473	25	6739	1.6			
	30	532	30	7161	1.6			
	112	163	25	4616	3.1	RSTV110	90L2	65
	93.3	187	30	4905	3			
	70	246	40	5399	2.1	RSTV110	90L2	65
	56	296	50	5816	1.7			
	46.7	347	60	6181	1.4			
	38.6	398	73	6586	2.1	PC090+RSTV110	90L2	70
	28.9	516	96.8	7249	1.5			
	23.1	617	121	7809	1.2			

PRESTACIONES MOTOREDUCTOR

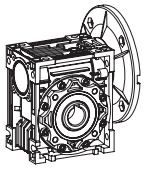


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
2.2	35	468	40	8897	2.2	RSTV130	100LA4	66
	28	563	50	9584	1.7			
	23.3	648	60	10185	1.4			
	17.5	816	80	11210	1			
	36	479	25	8814	2.2	RSTV130	112M6	66
	30	546	30	9366	2.1			
	22.5	700	40	10309	1.6			
	18	840	50	11105	1.2	RSTV130	112M6	66
	15	966	60	11801	1			
	35	438	80	8897	1.3	RSTV130	90L2	66
	28	525	100	9584	1			
	38.6	409	73	8614	2.9	PC090+RSTV130	90L2	70
	28.9	545	96.8	9481	2			
	23.1	654	121	10213	1.6			
	19.3	752	145.2	10853	1.3			
3	373.3	70	7.5	2210	1.9	RSTV075	100L2	63
	280	92	10	2433	1.6			
	186.7	137	7.5	2785	1.4	RSTV075	100LB4	63
	140	180	10	3065	1.1			
	93.3	261	15	3509	0.8			
	373.3	71	7.5	2446	3	RSTV090	100L2	64
	280	92	10	2692	2.6			
	186.7	138	7.5	3081	2.1	RSTV090	100LB4	64
	140	182	10	3391	1.7			
	93.3	264	15	3882	1.4			
	70	344	20	4273	1			
	56	420	25	4603	0.8			
	46.7	479	30	4891	0.9			
	93.3	264	15	4905	2.5	RSTV110	100LB4	64
	70	348	20	5399	1.9			
	56	430	25	5816	1.6			
	46.7	485	30	6181	1.5			
	35	638	40	6803	1.1			
	28	767	50	7328	0.9			
	120	212	7.5	4511	3.1	RSTV110	132S6	64
	90	280	10	4965	2.5			
	60	406	15	5684	1.9			
	45	528	20	6256	1.4			



P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
3	56	430	25	7607	2.2	RSTV130	100LB4	66
	46.7	491	30	8084	2.1			
	35	638	40	8897	1.6			
	28	767	50	9584	1.3			
	23.3	884	60	10185	1			
	17.5	1113	80	11210	0.8			
	90	280	10	6494	3.4	RSTV130	132S6	66
	60	406	15	7434	2.6			
	45	535	20	8182	1.9	RSTV130	132S6	66
	36	653	25	8814	1.6	RSTV130	132S6	66
	30	745	30	9366	1.6			
	22.5	955	40	10309	1.2			
4	373.3	93	7.5	2210	1.4	RSTV075	112M2	63
	280	123	10	2433	1.2			
	186.7	182	7.5	2785	1	RSTV075	112M4	63
	140	240	10	3065	0.8			
	373.3	94	7.5	2446	2.2	RSTV090	112M2	64
	280	123	10	2692	1.9			
	186.7	184	7.5	3081	1.6	RSTV090	112M4	64
	140	243	10	3391	1.3			
	93.3	352	15	3882	1			
	70	458	20	4273	0.8			
	140	243	10	4285	2.5	RSTV110	112M4	65
	93.3	352	15	4905	1.9			
	70	464	20	5399	1.4			
	56	573	25	5816	1.2			
	46.7	647	30	6181	1.1			
	120	283	7.5	4511	2.3	RSTV110	132MA6	65
	90	374	10	4965	1.9			
	60	541	15	5684	1.4			
	56	573	25	7607	1.6	RSTV130	112M4	66
	46.7	655	30	8084	1.6			
	35	851	40	8897	1.2			
	28	1023	50	9584	1			
	23.3	1179	60	10185	0.8			
	120	287	7.5	5901	3.1	RSTV130	132MA6	66
	90	374	10	6494	2.6			
	60	541	15	7434	2			
	45	713	20	8182	1.5			
	36	870	25	8814	1.2			

PRESTACIONES MOTOREDUCTOR



P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
5.5	186.7	253	7.5	3893	2.2	RSTV110	132S4	65
	140	334	10	4285	1.8			
	93.3	484	15	4905	1.4			
	70	638	20	5399	1			
	140	334	10	5605	2.5	RSTV130	132S4	66
	93.3	490	15	6416	1.9			
	70	645	20	7062	1.4			
	56	788	25	7607	1.2	RSTV130	132S4	66
	46.7	900	30	8084	1.2			
	35	1171	40	8897	0.9			
7.5	186.7	345	7.5	3893	1.6	RSTV110	132M4	65
	140	455	10	4285	1.3			
	93.3	660	15	4905	1			
	186.7	349	7.5	5092	2.1	RSTV130	132M4	66
	140	455	10	5605	1.8			
	93.3	668	15	6416	1.4			
	70	880	20	7062	1			
	56	1074	25	7607	0.9			
	46.7	1228	30	8084	0.8			
	35	1596	40	8897	0.7			

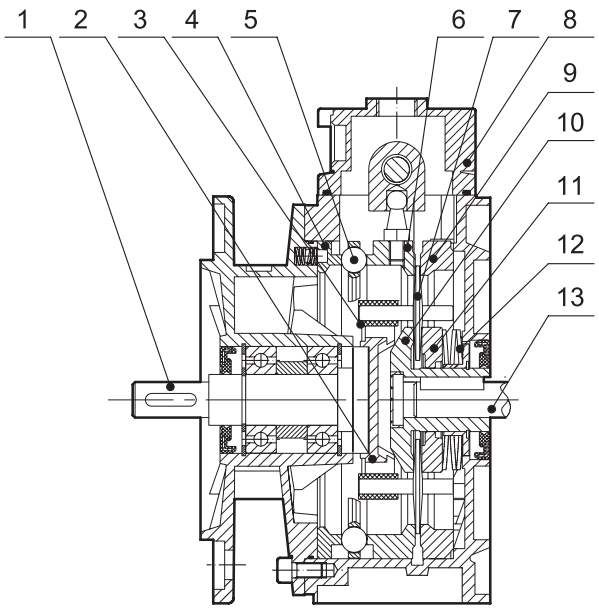
VTF MOTOVARIADORES DE DISCOS PLANETARIOS

Breve introducción

Los motovariadores y motovariadores-reductores de la serie VTF son fabricados con especial tecnología avanzada lo que los hace especialmente adaptados para tradajos en la industria de manutención, cerámica, envase, embalaje, química, textil, alimentaria, máquina herramienta, líneas qutomáticas de producción, líneas de ensamblaje y en general en aquellas en las que se requiere una regulación continuo. Sus principales características son las siguientes:

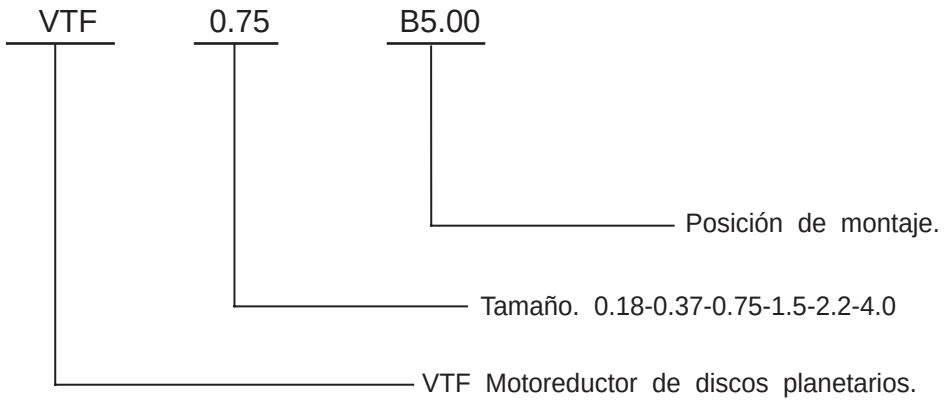
- Campo de regulación continuo 1:5.3 realizado en toda la gama respecto a la velocidad de entrada.
- Constante de velocidad±0.5% a la velocidad máxima y±1% a la mínima.
- Sentido de giro indistinto con entrada y salida concordantes.
- Funcionamiento silencioso y uniforme, gracias al número elevado y simétrico de puntos de contacto del mecanismo de variación.
- Buen dimensionamiento para garantizar una larga duración incluso con servicio continuo y a plena carga.
- Incremento del par hasta dos veces el nominal a la velocidad mínima.
- Elevado par de arranque.
- Alto rendimiento, aproximadamente el 84% a la máxima velocidad.
- Mínima manutención.
- Facilidad de adaptación y montaje, forma coaxial, compacta y de reducidas dimensiones.
- Fabricados en aluminio de alte calidad hasta el tamaño 1.50 y en fundición el resto de modelos.

结构 Características de funionamiento



1. Output shaft
2. Planet carrier
3. Friction bearing - planet disk
4. Cam ring
5. Ball ring
6. Adjustable annulus ring
7. Planet disk
8. Control cover
9. Fixed annulus ring
10. Fixed sun race
11. Adustable sun race
12. Belleville spring
13. Motor shaft

Designación



Instrucciones de montaje y mantenimiento

Durante la instalación y funcionamiento deben respetarse las siguientes instrucciones：

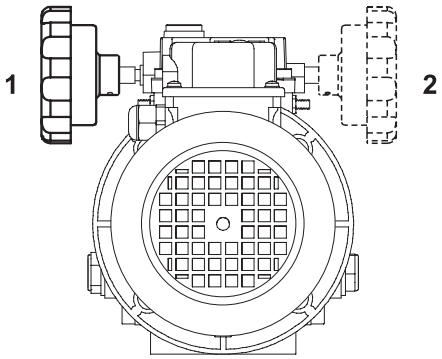
- Se debe asegurar una buena alineación entre el eje del motor y el acoplamiento del variador. El margen de error no debe ser superior a la tolerancia admitida por el acoplamiento.
- Cuando el árbol de salida se acopla a una ploea, piñón o acoplamiento elástico este debe fijarse mediante el tornillo situado en el extremo del eje o bien por calentamiento. Nunca golpear el eje de salida.

- Los variadores de velocidad mecánicos no deben usarse en aplicaciones donde se prevean sobrecargas o bloqueos de la máquina.
- La variación de velocidad debe efectuarse con el variador girando. Nunca manejar el volante de regulación con el motor parado.
- Los dos tornillos de regulación situados a ambos lados de la caja de maniobras vienen reglados de fábrica. Por favor no los toquen.
- Estos equipos están previstos para tradajar a una temperatura ambiente no superior a 40?，se debe considerar como temperatura ambiente máxima soportable 45 . Cuando el variador comienza a trabajar(sin carga), la temperatura se eleva más de lo normal hasta 40-50 por encima de la temperatura ambiente. Después de las primeras 60-80 horas de tradajo la temperatura disminuirá progresivamente hasta la temperatura normal de tradajo, unos 20 por encima de la temperatura ambiente y se mantendrá estable. La sobre temperatura ocurrida en la puesta en funcionamiento no daña a ninguna de las partes del variador ni afecta al tiempo de vida del mismo.（Sugerencia：tradajar sin carga durante las primeras horas）.
- El aceite lubricante usado es especial para variadores de velocidad. Su referencia es ISO VG320. Por favor comprobar el nivel de lubricante antes de su puesta en funcionamiento.

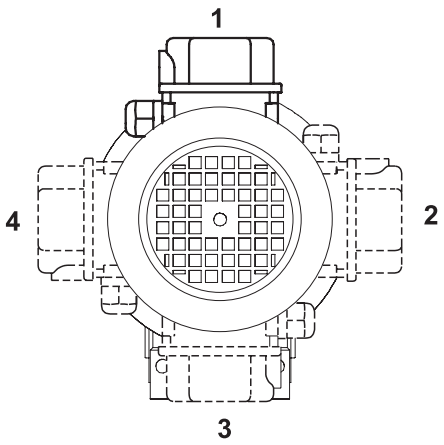
INTRUCCIONES DE MONTAJE Y MANTENIMIENTO

- Los variadores se suministran con lubricante, para trabajar durante las primeras 1.000 horas, después de este periodo el lubricante debe ser reemplazado.
- El nivel de aceite debe mantenerse a un tercio de la mirilla. Comprobar el nivel con asiduidad, estrictamente prohibido trabajar con un bajo nivel de lubricante. El tapón ciego situado en la caja de maniobras se utiliza para evitar derrame de aceite durante el transporte, debe sustituirse por un tapón desvaporizador antes de la puesta en funcionamiento.

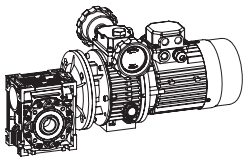
Posición estandar



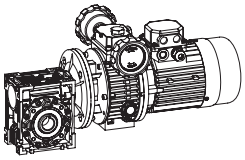
Posición del volante de mando

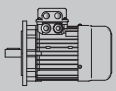


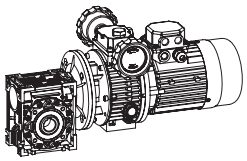
Posición de la caja de bornes



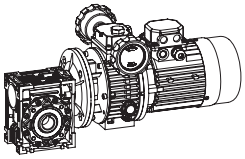
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i			
0.18	117 ~ 22.5	9 ~ 18	12 ~ 61.5	VTF0.18-RSTV040	6324	60 & 75
	88 ~ 17	12 ~ 23	16 ~ 82			
	58.7 ~ 11.3	17 ~ 32	24 ~ 123			
	44 ~ 8.5	22 ~ 40	32 ~ 164			
	35.2 ~ 6.8	27 ~ 47	40 ~ 205			
	29.3 ~ 5.7	30 ~ 51	48 ~ 246			
	22 ~ 4.3	37 ~ 62	64 ~ 328			
	17.6 ~ 3.4	43 ~ 60	80 ~ 410			
	22 ~ 4.3	38 ~ 63	64 ~ 328	VTF0.18-RSTV050	6324	61 & 75
	17.6 ~ 3.4	44 ~ 73	80 ~ 410			
	14.7 ~ 2.8	50 ~ 80	96 ~ 492			
	11 ~ 2.1	59 ~ 82	128 ~ 656			
	8.8 ~ 1.7	66 ~ 79	160 ~ 820			
0.37	133 ~ 26.7	19 ~ 36	10.5 ~ 52.5	VTF0.37-RSTV050	7124	61 & 75
	100 ~ 20	25 ~ 47	14 ~ 70			
	66.7 ~ 13.3	36 ~ 65	21 ~ 105			
	50 ~ 10	46 ~ 82	28 ~ 140			
	40 ~ 8	55 ~ 97	35 ~ 175			
	33.3 ~ 6.7	61 ~ 107	42 ~ 210			
	25 ~ 5	76 ~ 124	56 ~ 280			
	20 ~ 4	89 ~ 120	70 ~ 350			
	25 ~ 5	79 ~ 134	56 ~ 280	VTF0.37-RSTV063	7124	62 & 75
	20 ~ 4	92 ~ 155	70 ~ 350			
	16.7 ~ 3.3	104 ~ 173	84 ~ 420			
	12.5 ~ 2.5	125 ~ 173	112 ~ 560			
	10 ~ 2	139 ~ 150	140 ~ 700			
0.55	133 ~ 26.7	26 ~ 49	10.5 ~ 52.5	VTF0.55-RSTV063	8014	62 & 75
	100 ~ 20	34 ~ 63	14 ~ 70			
	66.7 ~ 13.3	48 ~ 88	21 ~ 105			
	50 ~ 10	62 ~ 112	28 ~ 140			
	40 ~ 8	75 ~ 133	35 ~ 175			
	33.3 ~ 6.7	81 ~ 146	42 ~ 210			
	25 ~ 5	105 ~ 179	56 ~ 280			
	20 ~ 4	123 ~ 207	70 ~ 350			
	20 ~ 4	129 ~ 216	70 ~ 350	VTF0.55-RSTV075	8014	63 & 75
	16.7 ~ 3.3	146 ~ 242	84 ~ 420			
	12.5 ~ 2.5	176 ~ 250	112 ~ 560			
	12.5 ~ 2.5	189 ~ 309	112 ~ 560	VTF0.55-RSTV090	8014	64 & 75
	10 ~ 2	218 ~ 350	140 ~ 700			
0.75	133 ~ 26.7	39 ~ 73	10.5 ~ 52.5	VTF0.75-RSTV063	8024	62 & 75
	100 ~ 20	51 ~ 94	14 ~ 70			
	66.7 ~ 13.3	72 ~ 132	21 ~ 105			

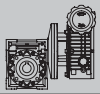
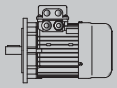


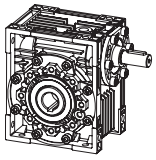
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i			
0.75	50 ~ 10 40 ~ 8 33.3 ~ 6.7 25 ~ 5 20 ~ 4	92 ~ 168 112 ~ 199 126 ~ 219 156 ~ 232 185 ~ 310	28 ~ 140 35 ~ 175 42 ~ 210 56 ~ 280 70 ~ 350	VTF0.75-RSTV063	8024	62 & 75
	20 ~ 4 16.7 ~ 3.3	192 ~ 320 219 ~ 300	70 ~ 350 84 ~ 420	VTF0.75-RSTV075	8024	63 & 75
	16.7 ~ 3.3 12.5 ~ 2.5 10 ~ 2	230 ~ 389 265 ~ 428 303 ~ 410	84 ~ 420 112 ~ 560 140 ~ 700	VTF0.75-RSTV090	8024	64 & 75
	12.5 ~ 2.5 10 ~ 2	302 ~ 503 348 ~ 575	112 ~ 560 140 ~ 700	VTF0.75-RSTV110	8024	65 & 75
1.1	133 ~ 26.7 100 ~ 20 66.7 ~ 13.3 50 ~ 10 40 ~ 8 33.3 ~ 6.7 25 ~ 5	59 ~ 111 77 ~ 144 110 ~ 203 142 ~ 258 172 ~ 308 195 ~ 340 245 ~ 360	10.5 ~ 52.5 14 ~ 70 21 ~ 105 28 ~ 140 35 ~ 175 42 ~ 210 56 ~ 280	VTF1.1-RSTV075	90S4	63 & 75
	100 ~ 20 66.7 ~ 13.3 50 ~ 10 40 ~ 8 33.3 ~ 6.7 25 ~ 5 20 ~ 4	78 ~ 146 113 ~ 208 146 ~ 266 177 ~ 320 202 ~ 356 256 ~ 442 304 ~ 517	14 ~ 70 21 ~ 105 28 ~ 140 35 ~ 175 42 ~ 210 56 ~ 280 70 ~ 350	VTF1.1-RSTV090	90S4	64 & 75
	20 ~ 4 16.7 ~ 3.3 12.5 ~ 2.5 10 ~ 2	320 ~ 550 368 ~ 625 455 ~ 754 522 ~ 710	70 ~ 350 84 ~ 420 112 ~ 560 140 ~ 700	VTF1.1-RSTV110	90S4	65 & 75
	16.7 ~ 3.3 12.5 ~ 2.5 10 ~ 2	373 ~ 623 460 ~ 749 531 ~ 868	84 ~ 420 112 ~ 560 140 ~ 700	VTF1.1-RSTV130	90S4	66 & 75
1.5	133 ~ 26.7 100 ~ 20 66.7 ~ 13.3 50 ~ 10 40 ~ 8 33.3 ~ 6.7 25 ~ 5	78 ~ 148 102 ~ 192 147 ~ 270 190 ~ 344 229 ~ 330 260 ~ 390 327 ~ 360	10.5 ~ 52.5 14 ~ 70 21 ~ 105 28 ~ 140 35 ~ 175 42 ~ 210 56 ~ 280	VTF1.5-RSTV075	90L4	63 & 75



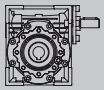
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i			
1.5	133 ~ 26.7	77 ~ 150	10.5 ~ 52.5	VTF1.5-RSTV090	90L4	64 & 75
	100 ~ 20	104 ~ 195	14 ~ 70			
	66.7 ~ 13.3	150 ~ 277	21 ~ 105			
	50 ~ 10	194 ~ 355	28 ~ 140			
	40 ~ 8	236 ~ 427	35 ~ 175			
	33.3 ~ 6.7	270 ~ 474	42 ~ 210			
	25 ~ 5	341 ~ 589	56 ~ 280			
	20 ~ 4	406 ~ 560	70 ~ 350			
	20 ~ 4	426 ~ 733	70 ~ 350	VTF1.5-RSTV110	90L4	65 & 75
	16.7 ~ 3.3	490 ~ 833	84 ~ 420			
	16.7 ~ 3.3	498 ~ 831	84 ~ 420	VTF1.5-RSTV130	90L4	66 & 75
	12.5 ~ 2.5	614 ~ 999	112 ~ 560			
	10 ~ 2	696 ~ 1100	140 ~ 700			
2.2	133 ~ 26.7	120 ~ 226	10.5 ~ 52.5	VTF2.2-RSTV110	100LA4	65 & 75
	100 ~ 20	157 ~ 294	14 ~ 70			
	66.7 ~ 13.3	228 ~ 418	21 ~ 105			
	50 ~ 10	298 ~ 549	28 ~ 140			
	40 ~ 8	364 ~ 664	35 ~ 175			
	33.3 ~ 6.7	413 ~ 717	42 ~ 210			
	25 ~ 5	533 ~ 931	56 ~ 280			
	25 ~ 5	542 ~ 932	56 ~ 280	VTF2.2-RSTV130	100LA4	66 & 75
	20 ~ 4	648 ~ 1097	70 ~ 350			
	16.7 ~ 3.3	746 ~ 1246	84 ~ 420			
	12.5 ~ 2.5	921 ~ 1499	112 ~ 560			
	10 ~ 2	1040 ~ 1690	140 ~ 700			
3	133 ~ 26.7	160 ~ 302	10.5 ~ 52.5	VTF3.0-RSTV110	100LB4	65 & 75
	100 ~ 20	210 ~ 392	14 ~ 70			
	66.7 ~ 13.3	304 ~ 558	21 ~ 105			
	50 ~ 10	398 ~ 732	28 ~ 140			
	40 ~ 8	485 ~ 885	35 ~ 175			
	33.3 ~ 6.7	547 ~ 956	42 ~ 210			
	25 ~ 5	711 ~ 1030	56 ~ 280			
	133 ~ 26.7	160 ~ 301	10.5 ~ 52.5	VTF3.0-RSTV130	100LB4	66 & 75
	100 ~ 20	211 ~ 395	14 ~ 70			
	66.7 ~ 13.3	307 ~ 563	21 ~ 105			
	50 ~ 10	402 ~ 733	28 ~ 140			
	40 ~ 8	490 ~ 885	35 ~ 175			
	33.3 ~ 6.7	562 ~ 973	42 ~ 210			
	25 ~ 5	720 ~ 1242	56 ~ 280			
	20 ~ 4	864 ~ 1463	70 ~ 350			

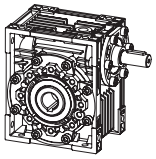


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i			
4	133 ~ 26.7	213 ~ 402	10.5 ~ 52.5	VTF4.0-RSTV110	112M4	65 & 75
	100 ~ 20	279 ~ 523	14 ~ 70			
	66.7 ~ 13.3	405 ~ 744	21 ~ 105			
	50 ~ 10	530 ~ 975	28 ~ 140			
	40 ~ 8	647 ~ 1020	35 ~ 175			
	133 ~ 26.7	214 ~ 401	10.5 ~ 52.5	VTF4.0-RSTV130	112M4	66 & 75
	100 ~ 20	281 ~ 527	14 ~ 70			
	66.7 ~ 13.3	410 ~ 751	21 ~ 105			
	50 ~ 10	536 ~ 978	28 ~ 140			
	40 ~ 8	653 ~ 1180	35 ~ 175			
	33.3 ~ 6.7	749 ~ 1298	42 ~ 210			
	25 ~ 5	960 ~ 1650	56 ~ 280			

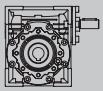


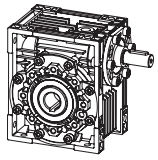
RSTIV (n_1=2800)

M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
13	7.5	0.58	373.3	542	125	**RSTIV030**	59
13	10	0.45	280	597	140		
13	15	0.31	186.7	683	140		
12	20	0.23	140	752	146		
16	25	0.25	112	810	210		
15	30	0.21	93.3	861	210		
14	40	0.16	70	948	127		
13	50	0.12	56	1021	128		
12	60	0.1	46.7	1085	126		
11	80	0.08	35	1194	130		
28	7.5	1.2	373.3	1044	233	**RSTIV040**	60
29	10	1	280	1149	272		
31	15	0.72	186.7	1315	291		
29	20	0.52	140	1447	204		
28	25	0.42	112	1559	236		
34	30	0.44	93.3	1657	350		
31	40	0.32	70	1824	350		
30	50	0.26	56	1964	350		
28	60	0.21	46.7	2087	350		
25	80	0.16	35	2298	350		
23	100	0.12	28	2475	350		
52	7.5	2.3	373.3	1433	324	**RSTIV050**	61
54	10	1.8	280	1577	378		
57	15	1.3	186.7	1805	399		
53	20	0.95	140	1987	417		
51	25	0.75	112	2140	482		
64	30	0.82	93.3	2274	490		
59	40	0.59	70	2503	490		
53	50	0.45	56	2696	490		
50	60	0.37	46.7	2865	490		
45	80	0.27	35	3153	490		
40	100	0.21	28	3397	490		
93	7.5	4	373.3	1873	395	**RSTIV063**	62
97	10	3.2	280	2061	463		
103	15	2.3	186.7	2359	492		
100	20	1.7	140	2597	538		
92	25	1.3	112	2797	593		
120	30	1.5	93.3	2973	700		
108	40	1.1	70	3272	700		
100	50	0.83	56	3524	700		
95	60	0.68	46.7	3745	700		
85	80	0.49	35	4122	700		
74	100	0.37	28	4440	700		

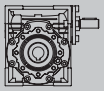


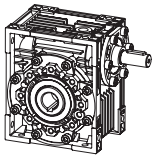
RSTIV (n_1=2800)

M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
130	7.5	5.6	373.3	2210	560	**RSTIV075**	63
145	10	4.7	280	2433	703		
150	15	3.4	186.7	2785	727		
160	20	2.8	140	3065	872		
150	25	2.1	112	3302	980		
170	30	2.1	93.3	3509	980		
165	40	1.6	70	3862	980		
150	50	1.2	56	4160	980		
145	60	1	46.7	4421	980		
130	80	0.72	35	4865	980		
120	100	0.58	28	5241	980		
210	7.5	8.9	373.3	2446	715	**RSTIV090**	64
235	10	7.7	280	2692	900		
270	15	6	186.7	3081	1034		
260	20	4.4	140	3391	1120		
250	25	3.4	112	3653	1270		
310	30	3.7	93.3	3882	1270		
275	40	2.6	70	4273	1270		
265	50	2	56	4603	1270		
245	60	1.6	46.7	4891	1270		
225	80	1.2	35	5383	1270		
200	100	0.9	28	5799	1270		
391	7.5	16.6	373.3	3090	950	**RSTIV110**	65
437	10	14.1	280	3401	1194		
489	15	10.7	186.7	3893	1337		
483	20	8	140	4285	1485		
506	25	6.8	112	4616	1700		
552	30	6.5	93.3	4905	1700		
529	40	4.7	70	5399	1700		
495	50	3.7	56	5816	1700		
473	60	3	46.7	6181	1700		
399	80	2	35	6803	1700		
368	100	1.6	28	7328	1700		
520	7.5	22.1	373.3	4042	1190	**RSTIV130**	66
580	10	18.7	280	4449	1493		
670	15	14.7	186.7	5092	1725		
660	20	11	140	5605	1912		
670	25	9	112	6038	2100		
770	30	9	93.3	6416	2100		
730	40	6.5	70	7062	2100		
700	50	5.1	56	7607	2100		
640	60	4	46.7	8084	2100		
590	80	3	35	8897	2100		
520	100	2.2	28	9584	2100		

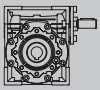


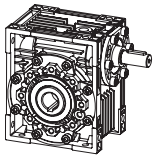
RSTIV (n_1=1400)

M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
18	7.5	0.41	186.7	683	150	**RSTIV030**	59
18	10	0.32	140	752	169		
18	15	0.23	93.3	861	169		
18	20	0.18	70	948	190		
21	25	0.18	56	1021	210		
20	30	0.15	46.7	1085	210		
18	40	0.11	35	1194	210		
17	50	0.09	28	1286	210		
16	60	0.08	23.3	1367	210		
13	80	0.05	17.5	1504	210		
40	7.5	0.9	186.7	1315	294	**RSTIV040**	60
40	10	0.69	140	1447	331		
40	15	0.48	93.3	1657	331		
39	20	0.37	70	1824	350		
38	25	0.3	56	1964	350		
38	25	0.3	56	1964	350		
45	30	0.31	46.7	2087	350		
41	40	0.23	35	2298	350		
39	50	0.18	28	2475	350		
36	60	0.15	23.3	2630	350		
33	80	0.12	17.5	2895	350		
29	100	0.09	14	3118	350		
71	7.5	1.6	186.7	1805	401	**RSTIV050**	61
72	10	1.2	140	1987	490		
74	15	0.88	93.3	2274	490		
73	20	0.68	70	2503	490		
70	25	0.54	56	2696	490		
84	30	0.57	46.7	2865	490		
76	40	0.42	35	3153	490		
73	50	0.34	28	3397	490		
68	60	0.28	23.3	3610	490		
65	80	0.22	17.5	3973	490		
55	100	0.16	14	4280	490		
128	7.5	2.8	186.7	2359	500	**RSTIV063**	62
130	10	2.2	140	2597	571		
140	15	1.6	93.3	2973	615		
135	20	1.2	70	3272	667		
130	25	1	56	3524	700		
160	30	1.1	46.7	3745	700		
145	40	0.76	35	4122	700		
135	50	0.6	28	4440	700		
130	60	0.51	23.3	4719	700		
122	80	0.39	17.5	5193	700		
118	100	0.34	14	5595	700		



RSTIV (n_1=1400)

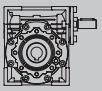
M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
185	7.5	4.1	186.7	2785	700	**RSTIV075**	63
195	10	3.2	140	3065	830		
200	15	2.3	93.3	3509	851		
210	20	1.9	70	3862	980		
200	25	1.5	56	4160	980		
230	30	1.5	46.7	4421	980		
220	40	1.1	35	4865	980		
210	50	0.89	28	5241	980		
200	60	0.75	23.3	5569	980		
190	80	0.58	17.5	6130	980		
180	100	0.48	14	6603	980		
290	7.5	6.3	186.7	3081	900	**RSTIV090**	64
310	10	5.1	140	3391	1082		
360	15	4.1	93.3	3882	1257		
355	20	3.1	70	4273	1270		
340	25	2.4	56	4603	1270		
410	30	2.6	46.7	4891	1270		
360	40	1.8	35	5383	1270		
340	50	1.4	28	5799	1270		
320	60	1.1	23.3	6163	1270		
285	80	0.83	17.5	6783	1270		
270	100	0.67	14	7306	1270		
552	7.5	12	186.7	3893	1200	**RSTIV110**	65
598	10	9.8	140	4285	1463		
656	15	7.5	93.3	4905	1604		
644	20	5.6	70	5399	1700		
679	25	4.7	56	5816	1700		
725	30	4.5	46.7	6181	1700		
702	40	3.3	35	6803	1700		
660	50	2.6	28	7328	1700		
616	60	2.1	23.3	7787	1700		
515	80	1.4	17.5	8571	1700		
483	100	1.1	14	9232	1700		
750	7.5	16.1	186.7	5092	1500	**RSTIV130**	66
820	10	13.5	140	5605	1845		
920	15	10.3	93.3	6416	2070		
910	20	7.8	70	7062	2100		
930	25	6.5	56	7607	2100		
1040	30	6.4	46.7	8084	2100		
1050	40	4.9	35	8897	2100		
980	50	3.8	28	9584	2100		
900	60	3.1	23.3	10185	2100		
840	80	2.3	17.5	11210	2100		
740	100	1.7	14	12076	2100		

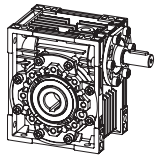


RSTIV (n_1=900)

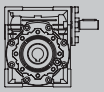
M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
20	7.5	0.3	120	792	175	**RSTIV030**	59
20	10	0.24	90	871	197		
20	15	0.17	60	997	197		
20	20	0.13	45	1098	210		
23	25	0.14	36	1183	210		
21	30	0.11	30	1257	210		
20	40	0.09	22.5	1383	210		
18	50	0.07	18	1490	210		
17	60	0.06	15	1583	210		
15	80	0.04	11.3	1743	210		
44	7.5	0.65	120	1524	319	**RSTIV040**	60
44	10	0.5	90	1677	350		
45	15	0.36	60	1920	350		
44	20	0.28	45	2113	350		
43	25	0.23	36	2276	350		
49	30	0.23	30	2419	350		
45	40	0.17	22.5	2662	350		
42	50	0.14	18	2868	350		
39	60	0.11	15	3047	350		
35	80	0.09	11.3	3354	350		
32	100	0.07	9	3490	350		
84	7.5	1.2	120	2091	448	**RSTIV050**	61
84	10	0.94	90	2302	490		
84	15	0.67	60	2635	490		
77	20	0.48	45	2900	490		
75	25	0.39	36	3124	490		
90	30	0.42	30	3320	490		
82	40	0.31	22.5	3654	490		
77	50	0.25	18	3936	490		
72	60	0.21	15	4183	490		
68	80	0.16	11.3	4604	490		
56	100	0.12	9	4840	490		
151	7.5	2.2	120	2734	580	**RSTIV063**	62
153	10	1.7	90	3009	661		
155	15	1.2	60	3444	670		
148	20	0.91	45	3791	700		
137	25	0.69	36	4084	700		
175	30	0.79	30	4339	700		
160	40	0.58	22.5	4776	700		
145	50	0.45	18	5145	700		
138	60	0.37	15	5467	700		
128	80	0.29	11.3	6018	700		
124	100	0.25	9	6270	700		

RSTIV (n_1=900)

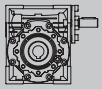
M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
215	7.5	3.1	120	3227	810	**RSTIV075**	63
230	10	2.5	90	3551	975		
235	15	1.8	60	4065	980		
235	20	1.4	45	4474	980		
215	25	1.1	36	4820	980		
260	30	1.1	30	5122	980		
240	40	0.83	22.5	5637	980		
220	50	0.65	18	6073	980		
210	60	0.54	15	6453	980		
200	80	0.43	11.3	7103	980		
190	100	0.36	9	7380	980		
340	7.5	4.8	120	3570	1040	**RSTIV090**	64
370	10	4	90	3929	1270		
420	15	3.1	60	4498	1270		
390	20	2.3	45	4951	1270		
370	25	1.8	36	5333	1270		
460	30	1.9	30	5667	1270		
410	40	1.4	22.5	6238	1270		
390	50	1.1	18	6719	1270		
350	60	0.86	15	7140	1270		
315	80	0.63	11.3	7859	1270		
280	100	0.49	9	8180	1270		
650	7.5	9.2	120	4511	1390	**RSTIV110**	65
713	10	7.6	90	4965	1700		
759	15	5.6	60	5684	1700		
725	20	4.1	45	6256	1700		
759	25	3.5	36	6739	1700		
840	30	3.5	30	7161	1700		
794	40	2.5	22.5	7882	1700		
748	50	2	18	8491	1700		
682	60	1.6	15	9023	1700		
567	80	1.1	11.3	9931	1700		
515	100	0.84	9	10320	1700		
880	7.5	12.3	120	5901	1740	**RSTIV130**	66
960	10	10.3	90	6494	2100		
1060	15	7.8	60	7434	2100		
1040	20	5.8	45	8182	2100		
1050	25	4.8	36	8814	2100		
1170	30	4.7	30	9366	2100		
1100	40	3.5	22.5	10309	2100		
1050	50	2.7	18	11105	2100		
940	60	2.1	15	11801	2100		
860	80	1.6	11.3	12989	2100		
780	100	1.2	9	13500	2100		

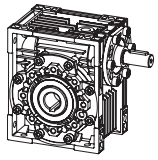


RSTIV (n_1=500)

M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
24	7.5	0.21	66.7	963	210	**RSTIV030**	59
24	10	0.16	50	1060	210		
24	15	0.12	33.3	1213	210		
23	20	0.09	25	1336	210		
29	25	0.1	20	1439	210		
26	30	0.08	16.7	1529	210		
23	40	0.06	12.5	1683	210		
21	50	0.05	10	1813	210		
19	60	0.04	8.3	1830	210		
17	80	0.03	6.3	1830	210		
54	7.5	0.45	66.7	1853	350	**RSTIV040**	60
54	10	0.35	50	2040	350		
55	15	0.26	33.3	2335	350		
52	20	0.19	25	2570	350		
49	25	0.15	20	2769	350		
58	30	0.16	16.7	2942	350		
53	40	0.12	12.5	3238	350		
49	50	0.1	10	3488	350		
46	60	0.08	8.3	3490	350		
40	80	0.06	6.3	3490	350		
36	100	0.05	5	3490	350		
103	7.5	0.86	66.7	2544	490	**RSTIV050**	61
103	10	0.67	50	2800	490		
103	15	0.47	33.3	3205	490		
93	20	0.33	25	3528	490		
91	25	0.28	20	3800	490		
108	30	0.29	16.7	4038	490		
98	40	0.22	12.5	4445	490		
91	50	0.17	10	4788	490		
83	60	0.14	8.3	4840	490		
75	80	0.11	6.3	4840	490		
65	100	0.09	5	4840	490		
184	7.5	1.5	66.7	3325	700	**RSTIV063**	62
185	10	1.2	50	3660	700		
187	15	0.85	33.3	4190	700		
178	20	0.63	25	4611	700		
164	25	0.48	20	4967	700		
200	30	0.54	16.7	5279	700		
185	40	0.4	12.5	5810	700		
173	50	0.32	10	6259	700		
160	60	0.26	8.3	6270	700		
137	80	0.19	6.3	6270	700		
128	100	0.16	5	6270	700		

RSTIV (n_1=500)

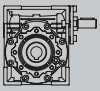
M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
260	7.5	2.1	66.7	3925	980	**RSTIV075**	63
270	10	1.7	50	4320	980		
280	15	1.2	33.3	4945	980		
285	20	0.98	25	5443	980		
255	25	0.73	20	5863	980		
300	30	0.77	16.7	6231	980		
280	40	0.58	12.5	6858	980		
250	50	0.44	10	7380	980		
240	60	0.37	8.3	7380	980		
215	80	0.29	6.3	7380	980		
210	100	0.24	5	7380	980		
410	7.5	3.3	66.7	4343	1270	**RSTIV090**	64
435	10	2.7	50	4780	1270		
490	15	2.1	33.3	5472	1270		
470	20	1.6	25	6022	1270		
440	25	1.2	20	6487	1270		
550	30	1.4	16.7	6894	1270		
480	40	0.95	12.5	7588	1270		
450	50	0.75	10	8174	1270		
400	60	0.59	8.3	8180	1270		
365	80	0.45	6.3	8180	1270		
330	100	0.35	5	8180	1270		
794	7.5	6.4	66.7	5488	1700	**RSTIV110**	65
851	10	5.2	50	6040	1700		
909	15	3.9	33.3	6914	1700		
863	20	2.8	25	7610	1700		
909	25	2.4	20	8198	1700		
1000	30	2.4	16.7	8711	1700		
932	40	1.7	12.5	9588	1700		
880	50	1.4	10	10320	1700		
781	60	1.1	8.3	10320	1700		
662	80	0.76	6.3	10320	1700		
599	100	0.59	5	10320	1700		
1080	7.5	8.6	66.7	7178	2100	**RSTIV130**	66
1160	10	7.1	50	7900	2100		
1300	15	5.5	33.3	9043	2100		
1230	20	4	25	9953	2100		
1200	25	3.2	20	10722	2100		
1400	30	3.3	16.7	11394	2100		
1300	40	2.4	12.5	12540	2100		
1220	50	1.9	10	13500	2100		
1070	60	1.5	8.3	13500	2100		
970	80	1.1	6.3	13500	2100		
860	100	0.85	5	13500	2100		

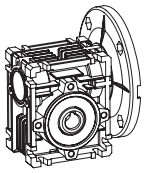


RSTIV + RSTV (n_1=1400)

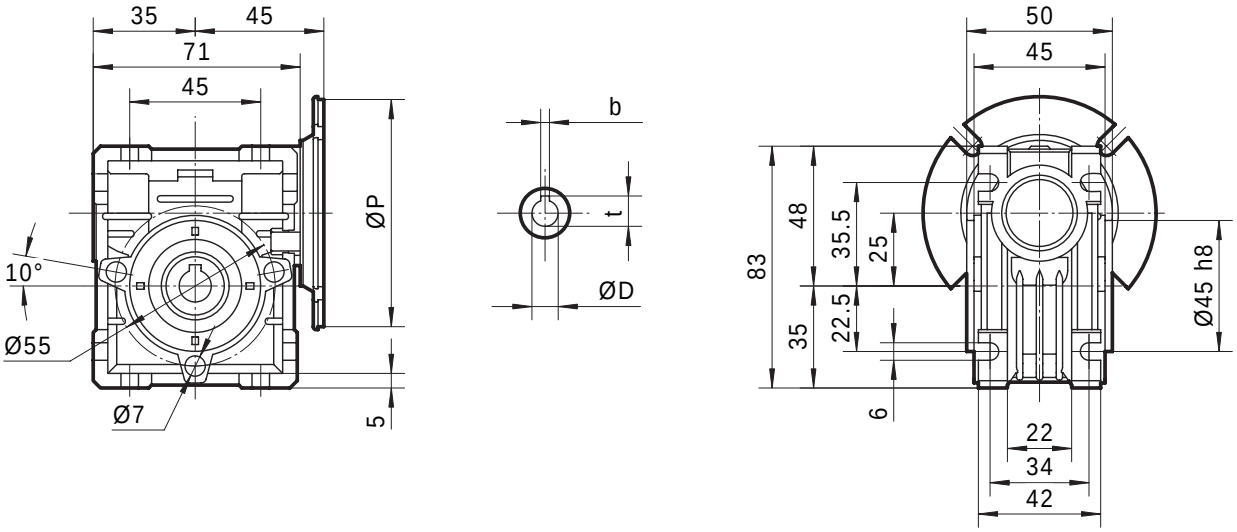
M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
73	300	0.08	4.7	3490	210	**RSTIV030+040**	72
65	400	0.06	3.5	3490	210		
61	500	0.04	2.8	3490	210		
73	600	0.04	2.3	3490	210		
73	750	0.04	1.9	3490	210		
73	900	0.03	1.6	3490	210		
65	1200	0.02	1.2	3490	210		
73	1500	0.02	0.9	3490	210		
73	1800	0.02	0.8	3490	210		
65	2400	0.01	0.58	3490	210		
65	3200	0.01	0.4	3490	210		
33	4000	0.01	0.4	3490	210		
29	5000	0.01	0.28	3490	210		
145	300	0.15	4.7	4840	210	**RSTIV030+050**	72
124	400	0.1	3.5	4840	210		
120	500	0.09	2.8	4840	210		
145	600	0.08	2.3	4840	210		
145	750	0.07	1.9	4840	210		
145	900	0.06	1.6	4840	210		
124	1200	0.04	1.2	4840	210		
145	1500	0.04	0.93	4840	210		
145	1800	0.04	0.78	4840	210		
124	2400	0.03	0.6	4840	210		
120	3000	0.02	0.5	4840	210		
82	4000	0.02	0.35	4840	210		
82	4800	0.02	0.29	4840	210		
230	300	0.24	4.7	6270	210	**RSTIV030+063**	72
230	400	0.19	3.5	6270	210		
216	500	0.15	2.8	6270	210		
230	600	0.13	2.3	6270	210		
216	750	0.11	1.9	6270	210		
198	900	0.09	1.6	6270	210		
230	1200	0.08	1.2	6270	210		
216	1500	0.06	0.93	6270	210		
198	1800	0.05	0.78	6270	210		
230	2400	0.05	0.58	6270	210		
216	3000	0.04	0.47	6270	210		
172	4000	0.03	0.35	6270	210		
150	5000	0.02	0.28	6270	210		
390	300	0.36	4.7	7380	350	**RSTIV040+075**	73
360	400	0.27	3.5	7380	350		
320	500	0.21	2.8	7380	350		
390	600	0.19	2.3	7380	350		
390	750	0.16	1.9	7380	350		
390	900	0.14	1.6	7380	350		
360	1200	0.11	1.2	7380	350		

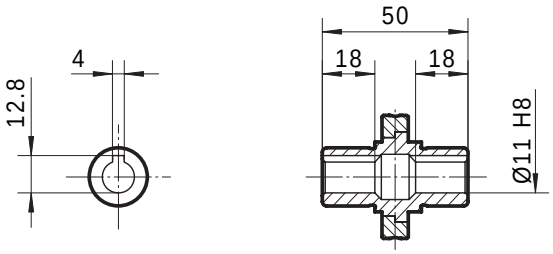
RSTIV / RSTV (n_1=1400)

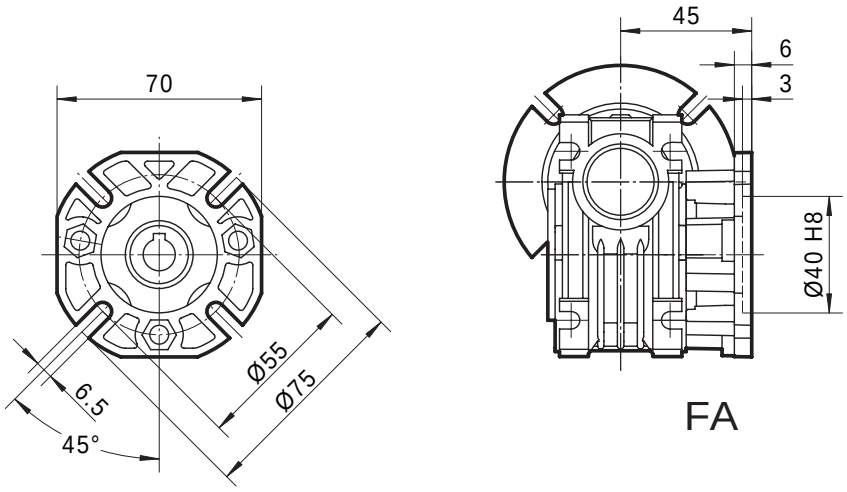
M_2 [Nm]	i	P_1 [Kw]	n_2 [min^{-1}]	Fr_2 [N]	Fr_1 [N]		
390	1500	0.1	0.93	7380	350	**RSTIV040+075**	73
390	1800	0.09	0.78	7380	350		
360	2400	0.07	0.58	7380	350		
320	3000	0.05	0.47	7380	350		
250	4000	0.04	0.35	7380	350		
230	5000	0.03	0.28	7380	350		
610	300	0.56	4.7	8180	350	**RSTIV040+090**	73
610	400	0.43	3.5	8180	350		
560	500	0.34	2.8	8180	350		
610	600	0.3	2.3	8180	350		
560	750	0.23	1.9	8180	350		
505	900	0.19	1.6	8180	350		
610	1200	0.17	1.2	8180	350		
560	1500	0.14	0.93	8180	350		
505	1800	0.11	0.78	8180	350	**RSTIV040+090**	73
610	2400	0.11	0.58	8180	350		
560	3000	0.08	0.47	8180	350		
460	4000	0.08	0.35	8180	350		
410	5000	0.06	0.28	8180	350		
1265	300	1.1	4.7	10320	490	**RSTIV050+110**	73
1185	400	0.79	3.5	10320	490		
1100	500	0.61	2.8	10320	490		
1185	600	0.55	2.3	10320	490		
1265	750	0.49	1.9	10320	490		
1265	900	0.43	1.6	10320	490		
1185	1200	0.31	1.2	10320	490		
1265	1500	0.3	0.93	10320	490		
1265	1800	0.26	0.78	10320	490		
1185	2400	0.19	0.58	10320	490		
1100	3000	0.15	0.47	10320	490		
819	4000	0.13	0.35	10320	490		
746	5000	0.1	0.28	10320	490		
1760	300	1.5	4.7	13500	700	**RSTIV063+130**	74
1650	400	1.1	3.5	13500	700		
1550	500	0.86	2.8	13500	700		
1650	600	0.76	2.3	13500	700		
1760	750	0.66	1.9	13500	700		
1760	900	0.58	1.6	13500	700		
1650	1200	0.43	1.2	13500	700		
1760	1500	0.39	0.93	13500	700		
1760	1800	0.35	0.78	13500	700		
1650	2400	0.25	0.58	13500	700		
1550	3000	0.2	0.47	13500	700		
1220	4000	0.15	0.35	13500	700		
1100	5000	0.11	0.28	13500	700		



RSTV 025





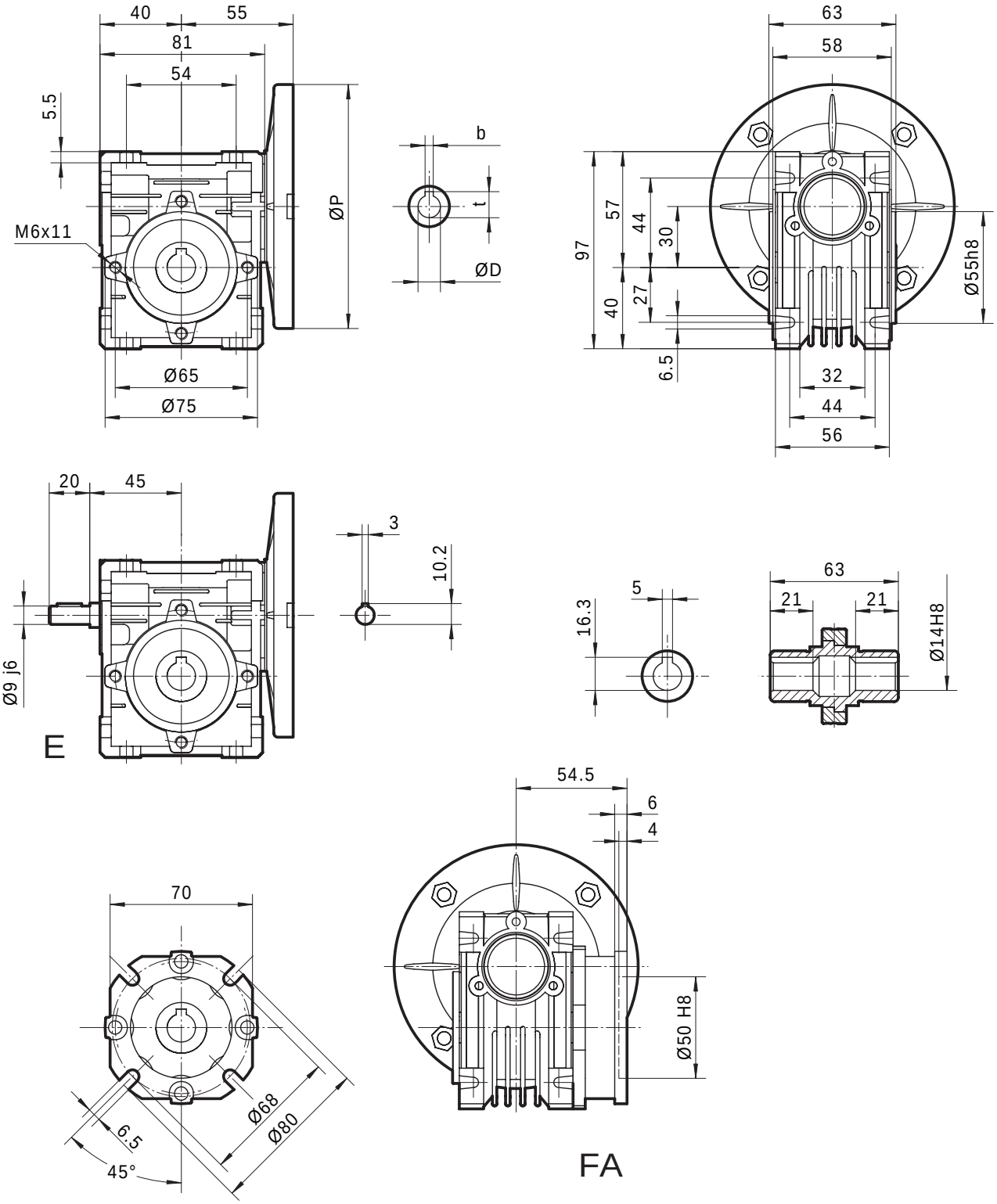


FA

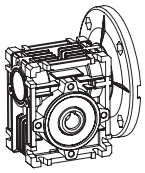
PESO SIN MOTOR 0.7kg

Para las dimensiones de acoplamiento cota (P, D, b, t)
consultar tabla página (73 de su catalogo)

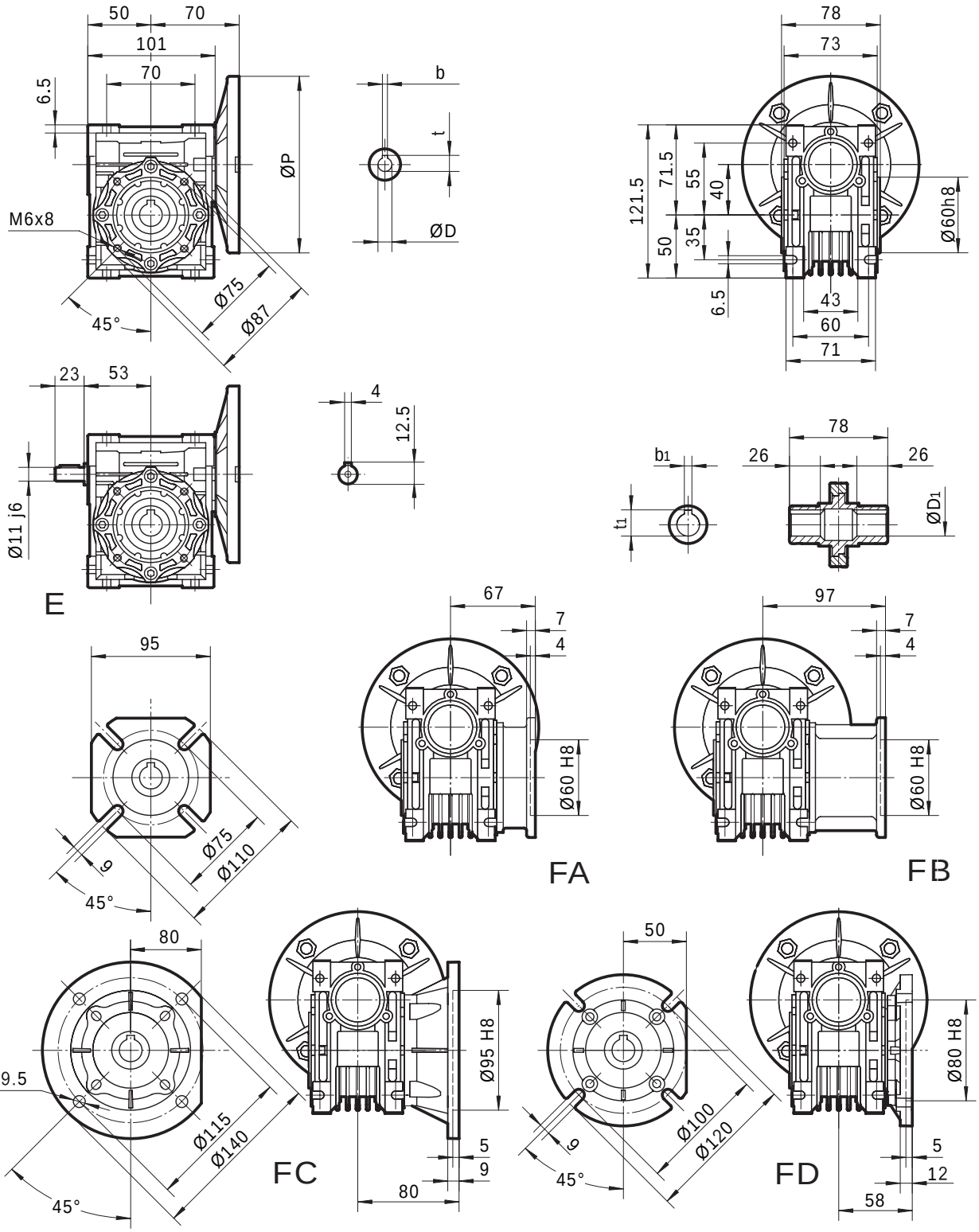
RSTV 030



PESO SIN MOTOR 1.2kg
Para las dimensiones de acoplamiento cota (P, D, b, t)
consultar tabla página (73 de su catalogo)



RSTV 040



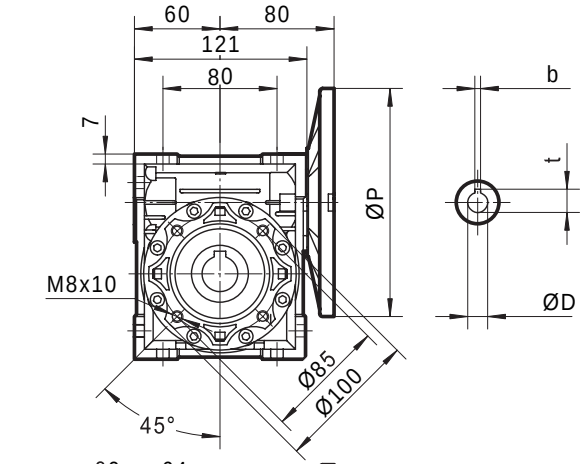
Output size		
Ø**D**1 H8	**b**1	**t**1
Ø18 Ø19*	6 6*	20.8 21.8*

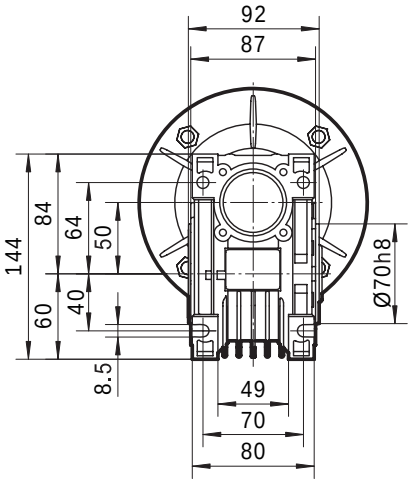
(*) Modelo no standard

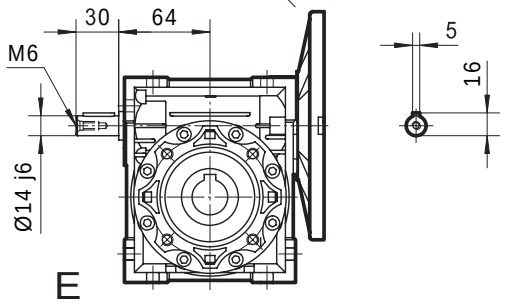
PESO SIN MOTOR 2.3kg

Para las dimensiones de acoplamiento cota (P, D, b, t) consultar tabla página (73 de su catalogo)

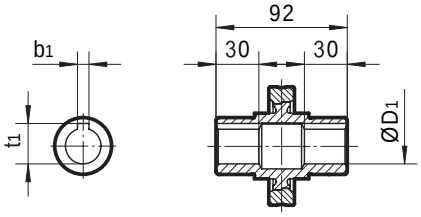
RSTV 050

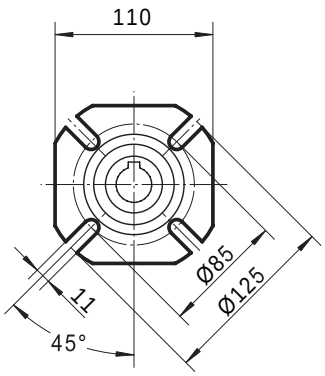


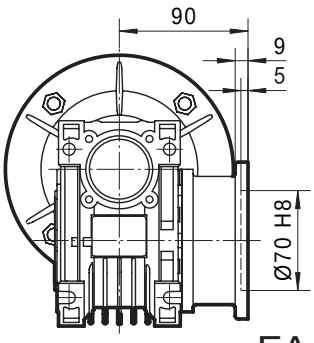




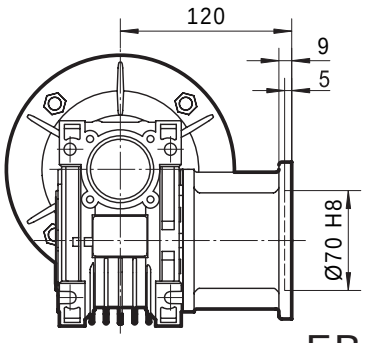
E



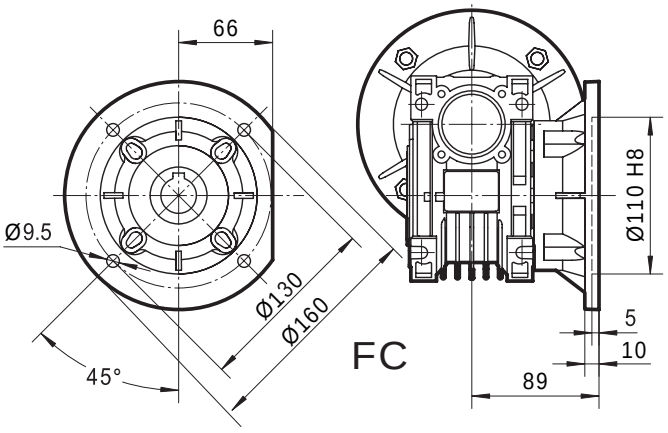




FA



FB



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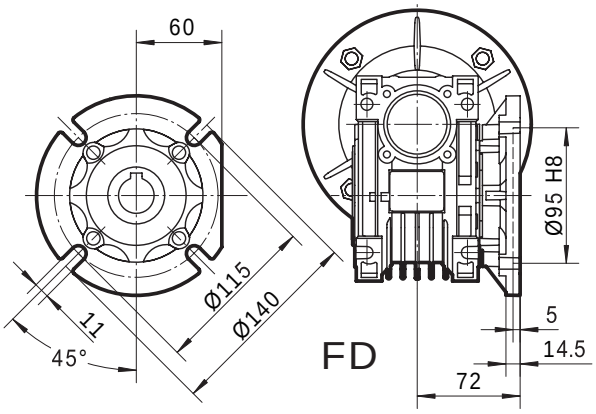


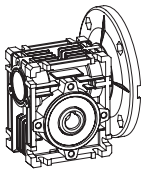
FD

PESO SIN MOTOR 3.5kg

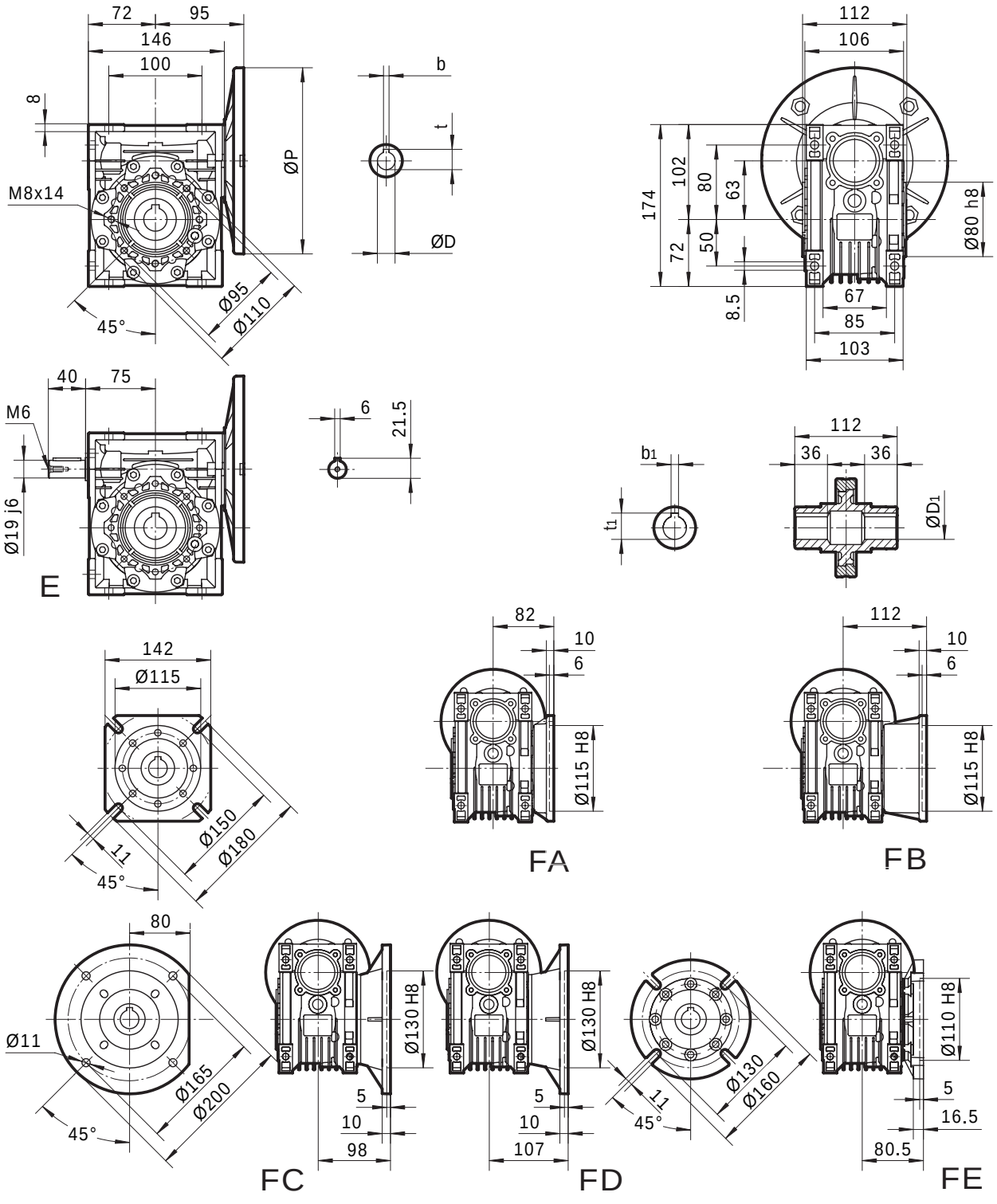
Para las dimensiones de acoplamiento cota (P, D, b, t) consultar tabla página (73 de su catalogo)

ØD1 H8	b1	t1
Ø25	8	28.3
Ø24*	8*	27.3*

(*) Modelo no standard



RSTV 063



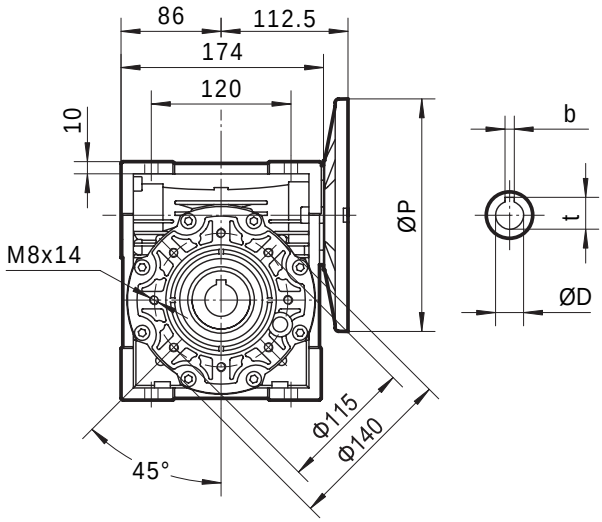
PESO SIN MOTOR 6.2kg

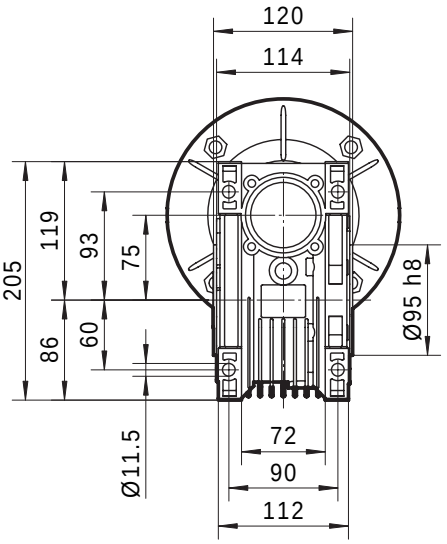
Para las dimensiones de acoplamiento cota (P, D, b, t) consultar tabla página (73 de su catalogo)

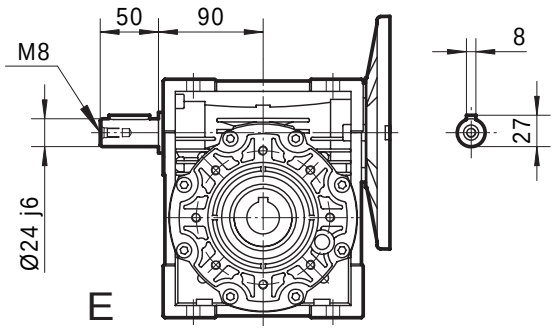
输出尺寸 Output size		
ØD1 H8	**b1**	**t1**
Ø25 Ø28*	8 8*	28.3 31.3*

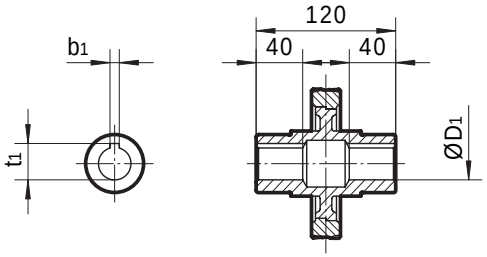
(*) Modelo no standard

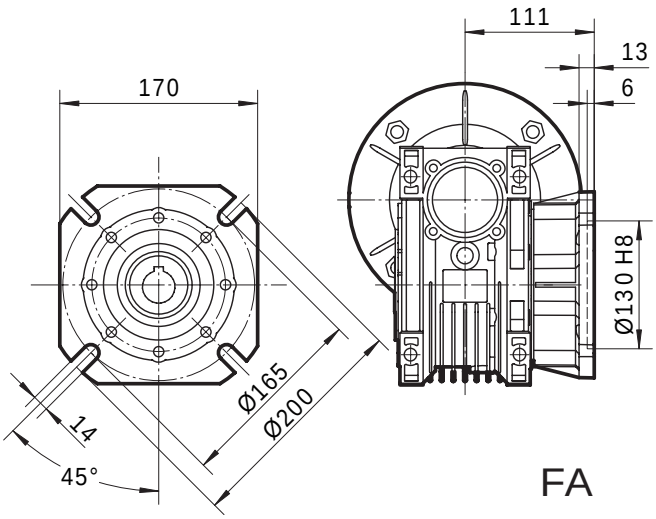
RSTV 075

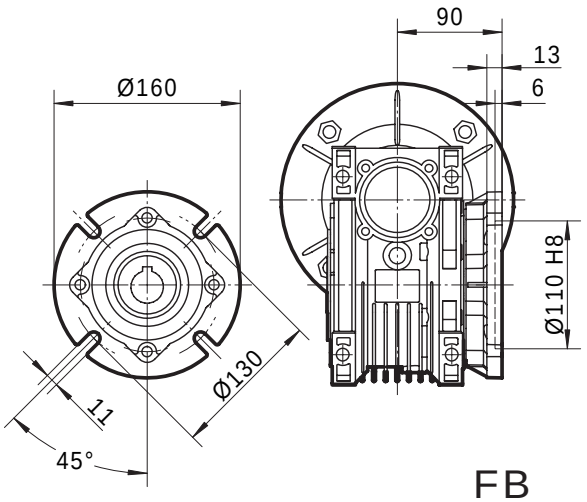










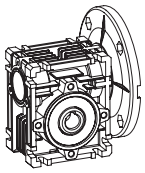


PESO SIN MOTOR 9kg

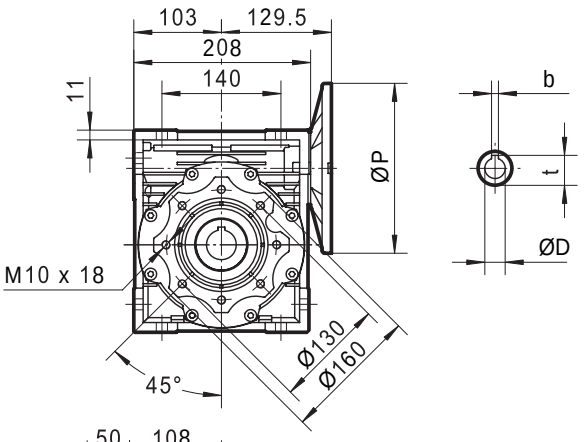
Para las dimensiones de acoplamiento cota (P, D, b, t) consultar tabla página (73 de su catalogo)

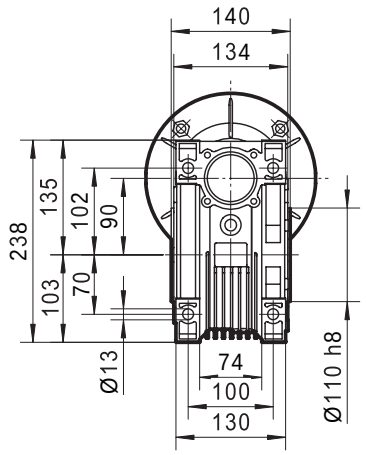
输出尺寸 Output size		
ØD1 H8	**b1**	**t1**
Ø28 Ø35 *	8 10*	31.3 38.3 *

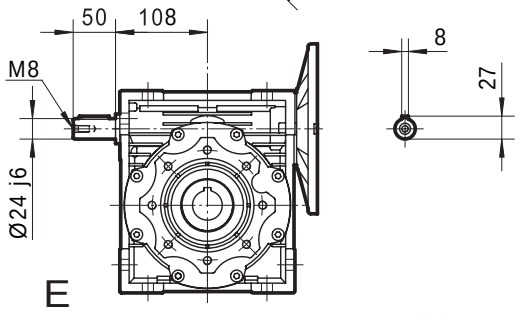
(*) Modelo no standard



RSTV 090







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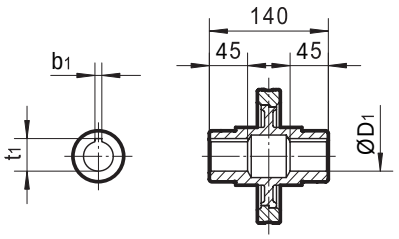

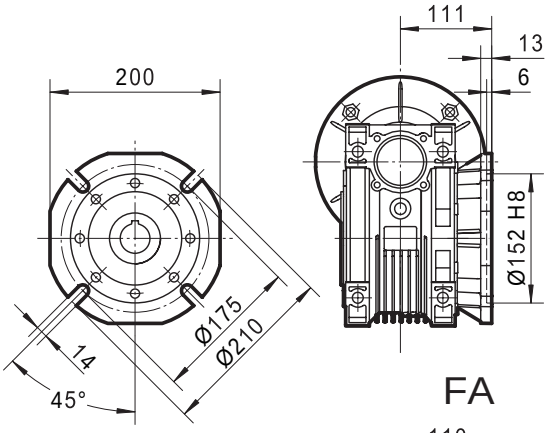

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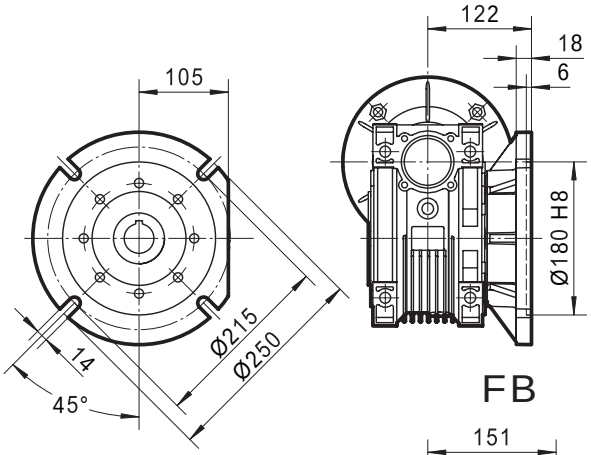

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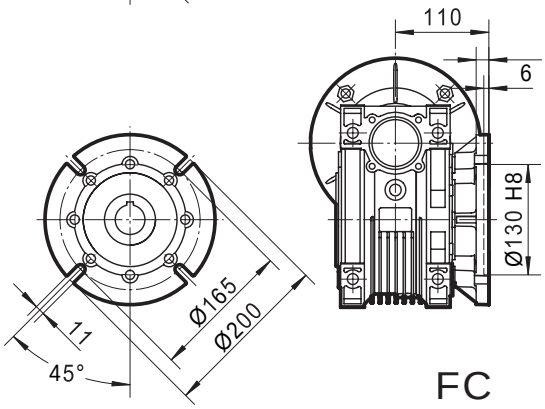

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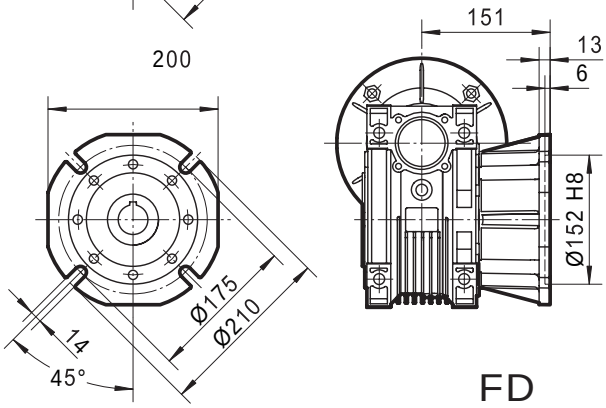


FD

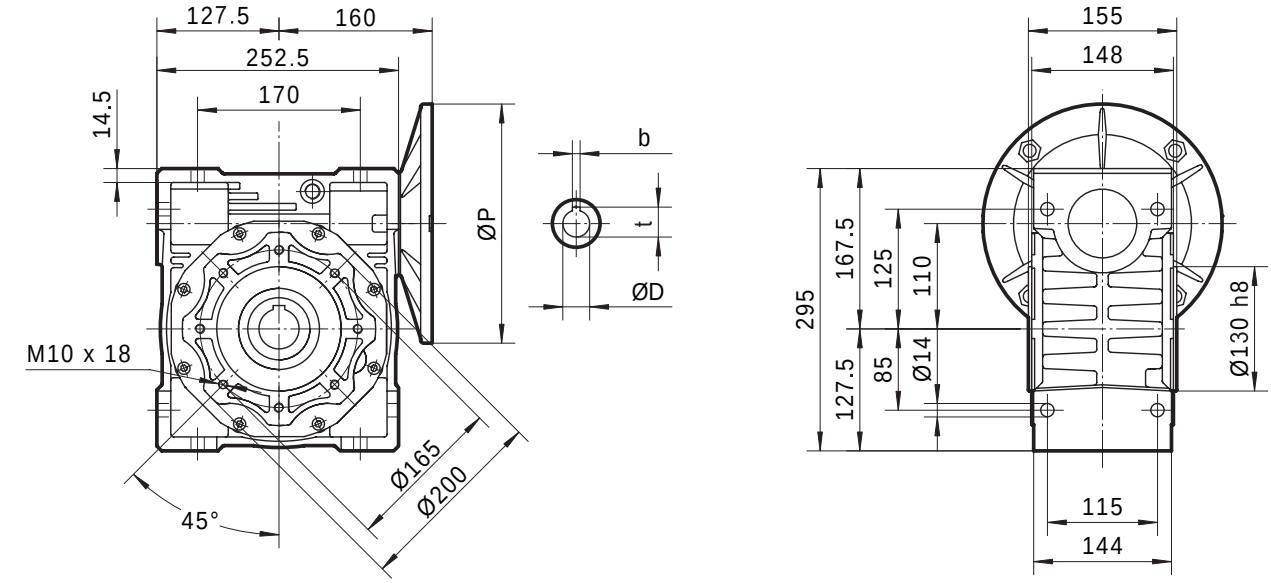
PESO SIN MOTOR 13kg

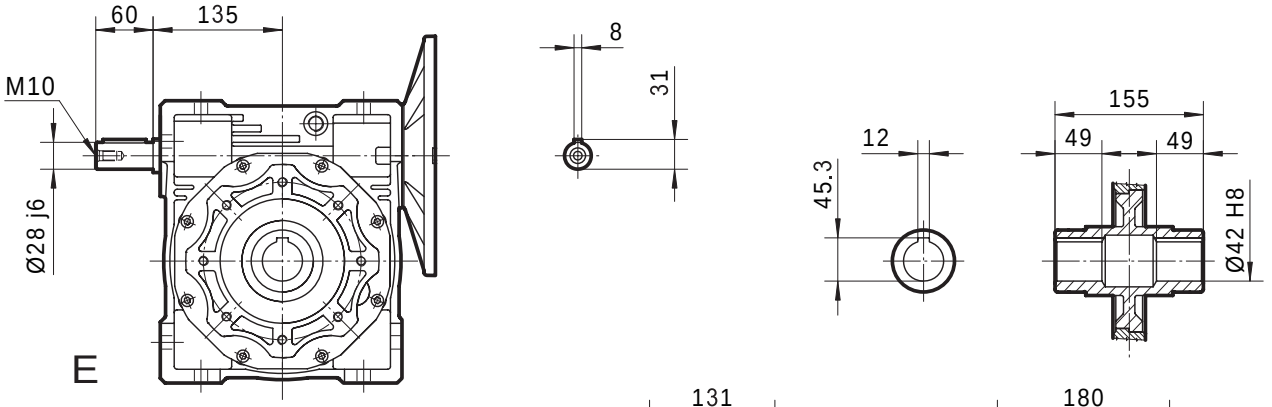
Para las dimensiones de acoplamiento cota (P, D, b, t) consultar tabla página (73 de su catalogo)

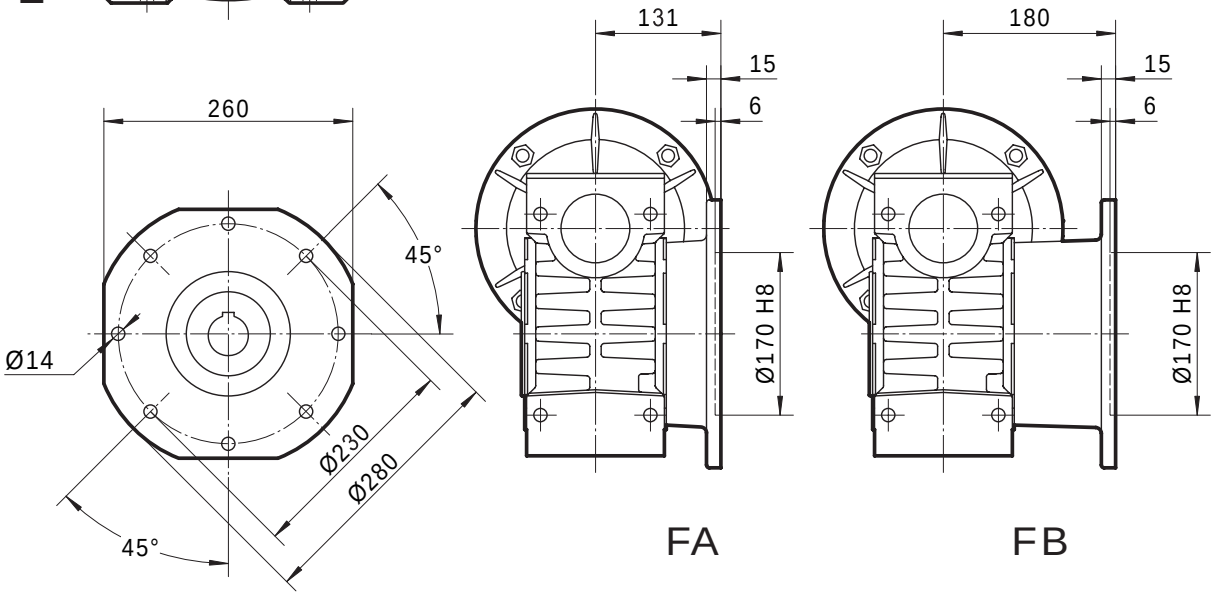
ØD1 H8	b1	t1
Ø35 Ø38*	10 10*	38.3 41.3*

(*) Modelo no standard

RSTV 110

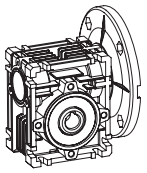




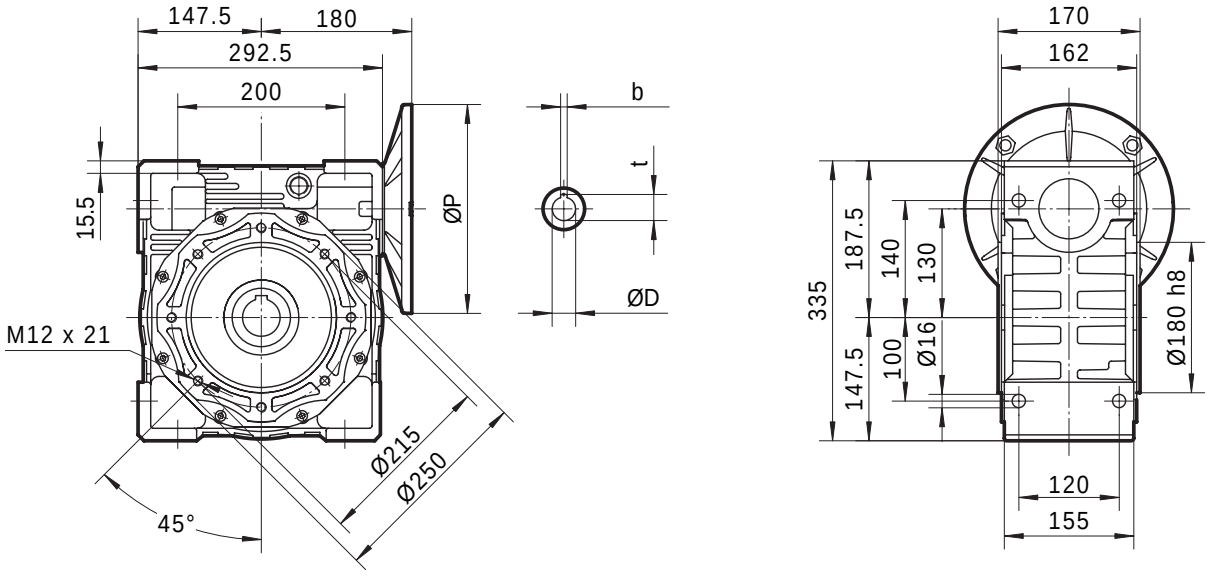


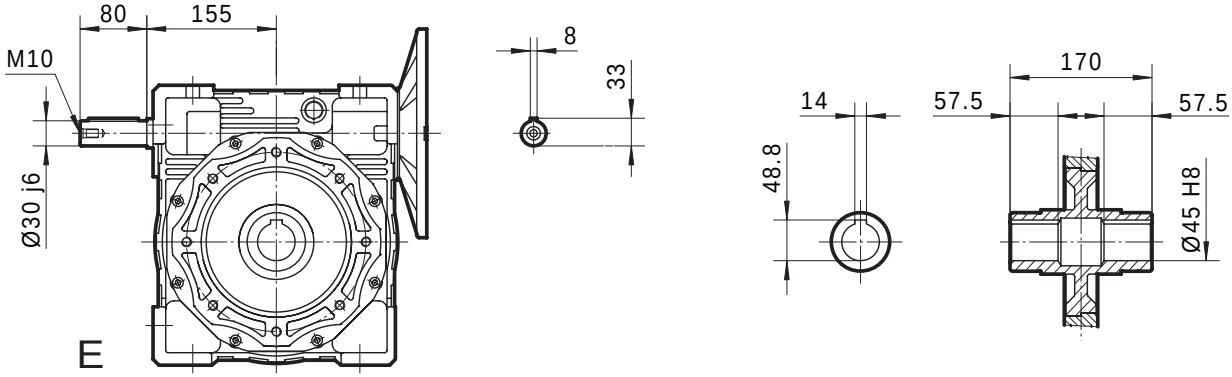
PESO SIN MOTOR 35kg

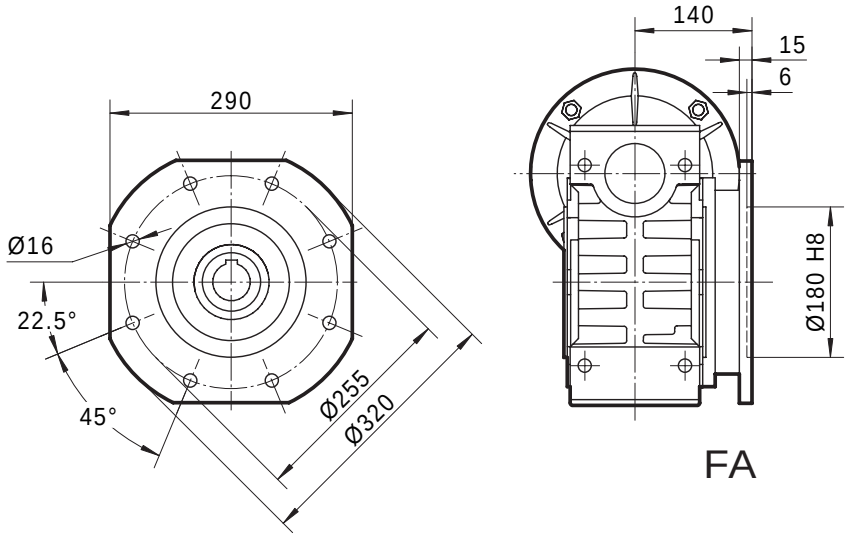
Para las dimensiones de acoplamiento cota (P, D, b, t)
consultar tabla página (73 de su catalogo)



RSTV 130



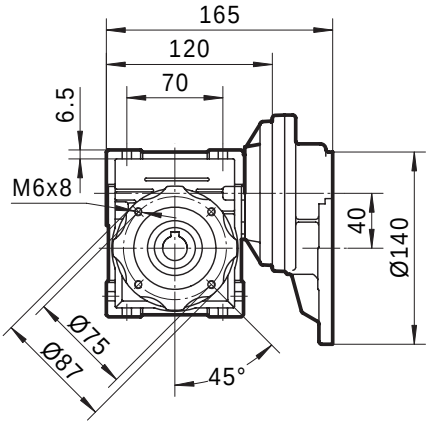


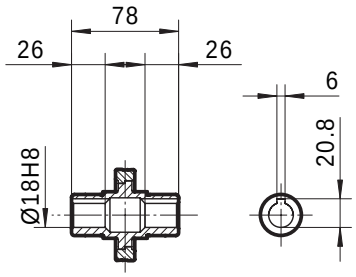


PESO SIN MOTOR 48kg

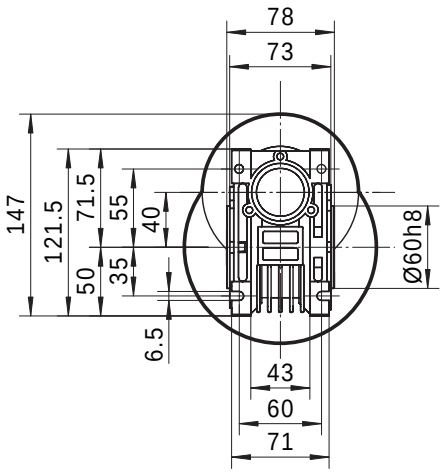
Para las dimensiones de acoplamiento cota (P, D, b, t)
consultar tabla página (73 de su catalogo)

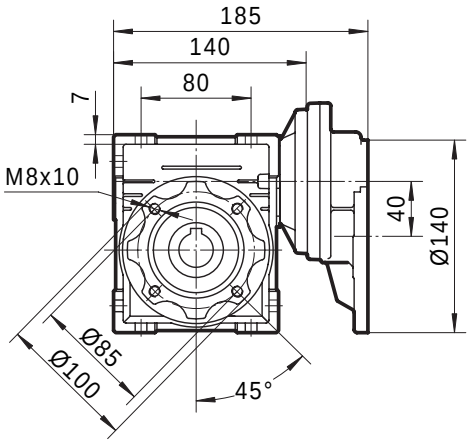
REDUCTOR CORONA Y SIN FIN MAS PRE-REDUCCION (PC+RSTV)

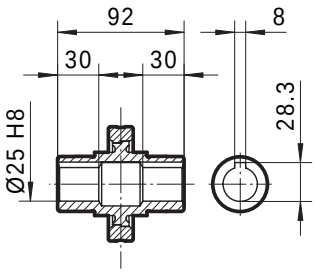




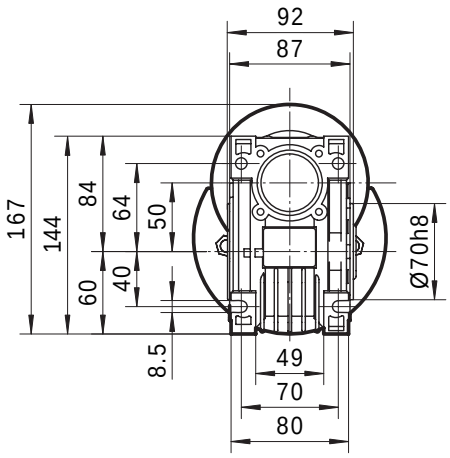
PC063 + RSTV040

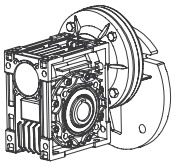




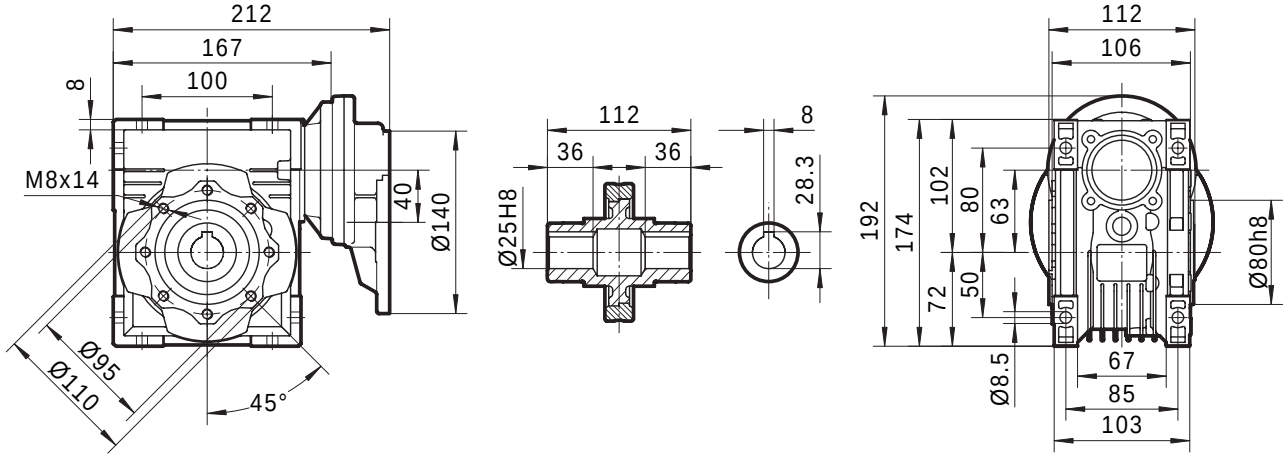


PC063 + RSTV050

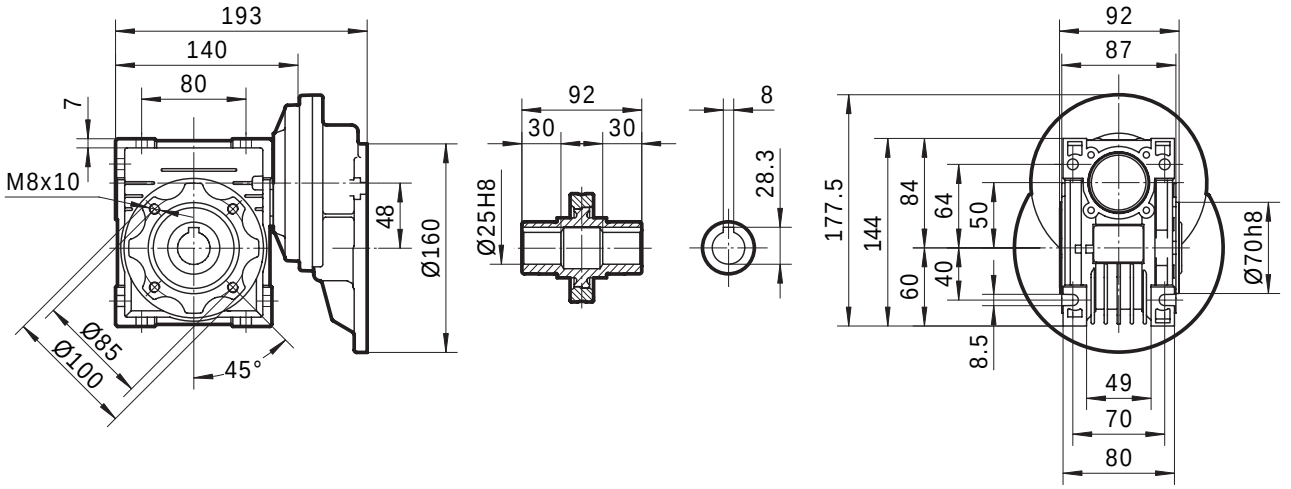




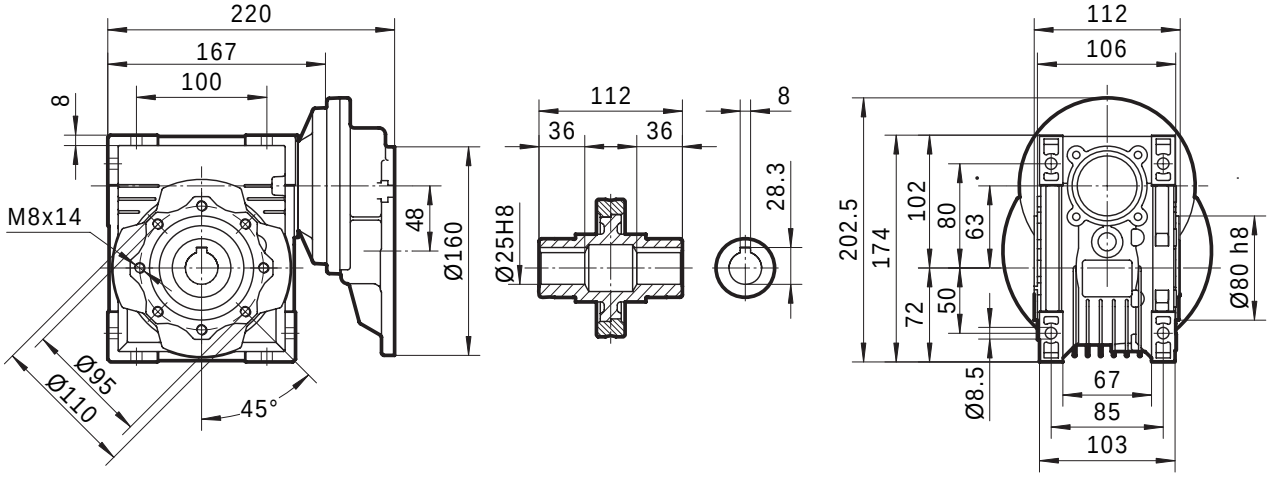
PC063 + RSTV063



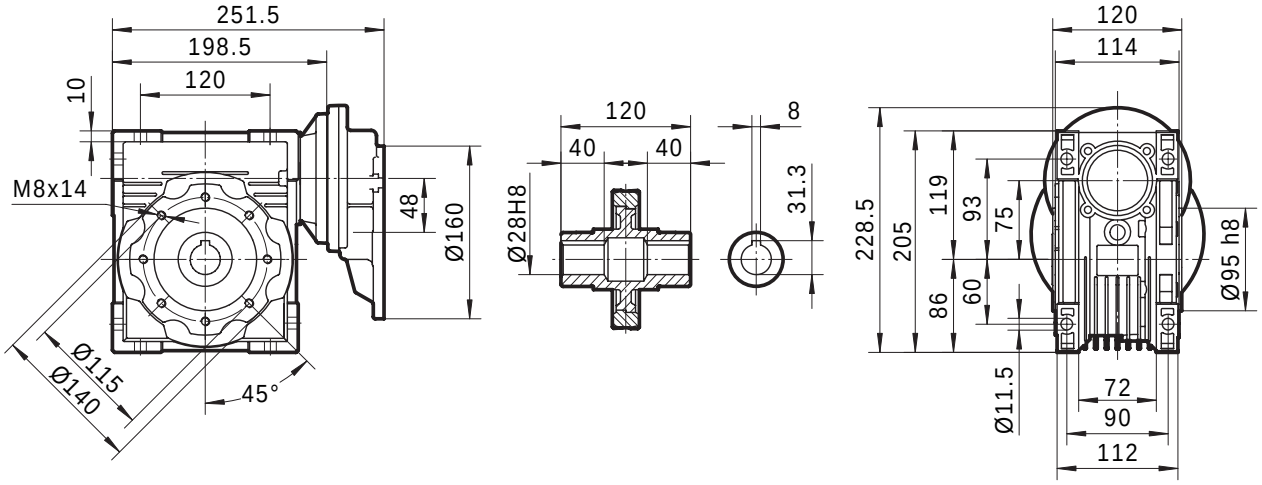
PC071 + RSTV050



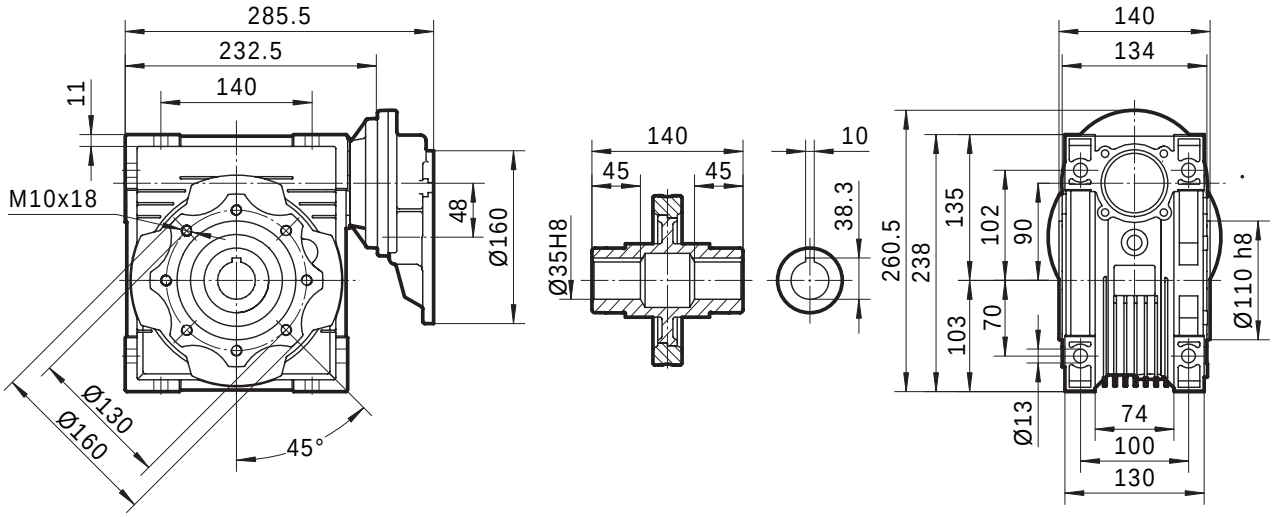
PC071 + RSTV063



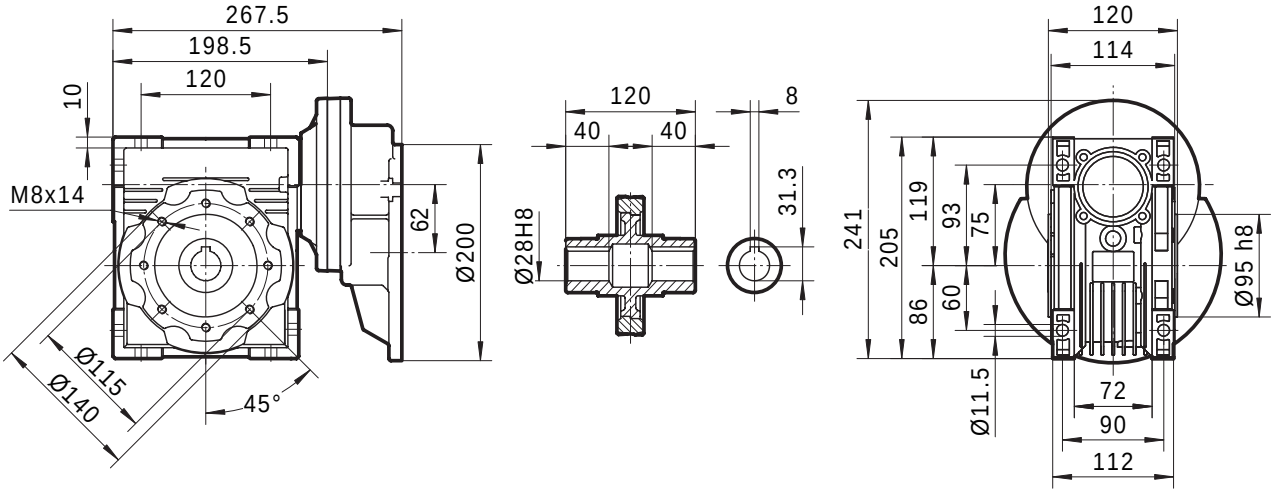
PC071 + RSTV075

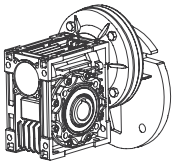


PC071 + RSTV090

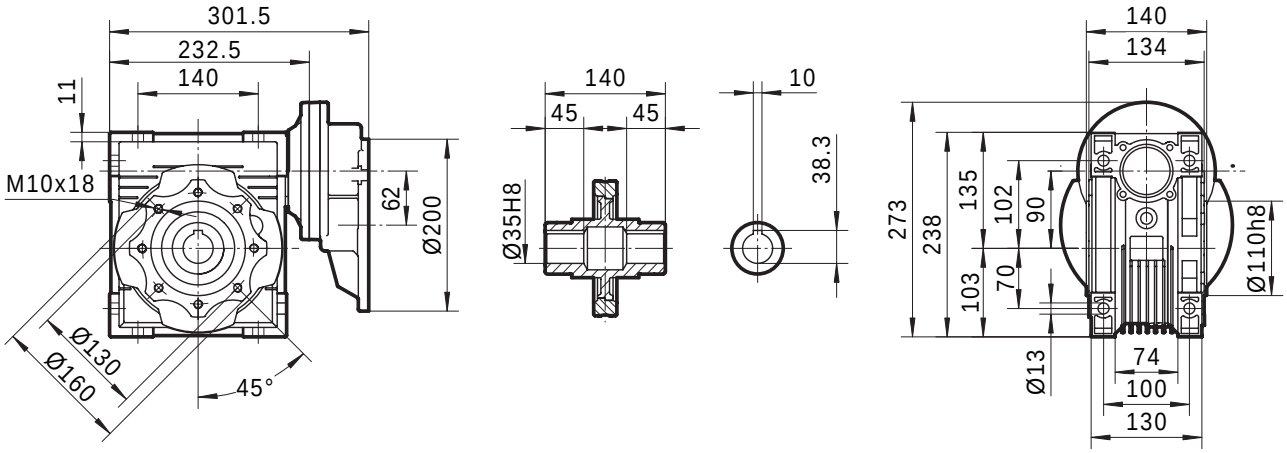


PC080 + RSTV075

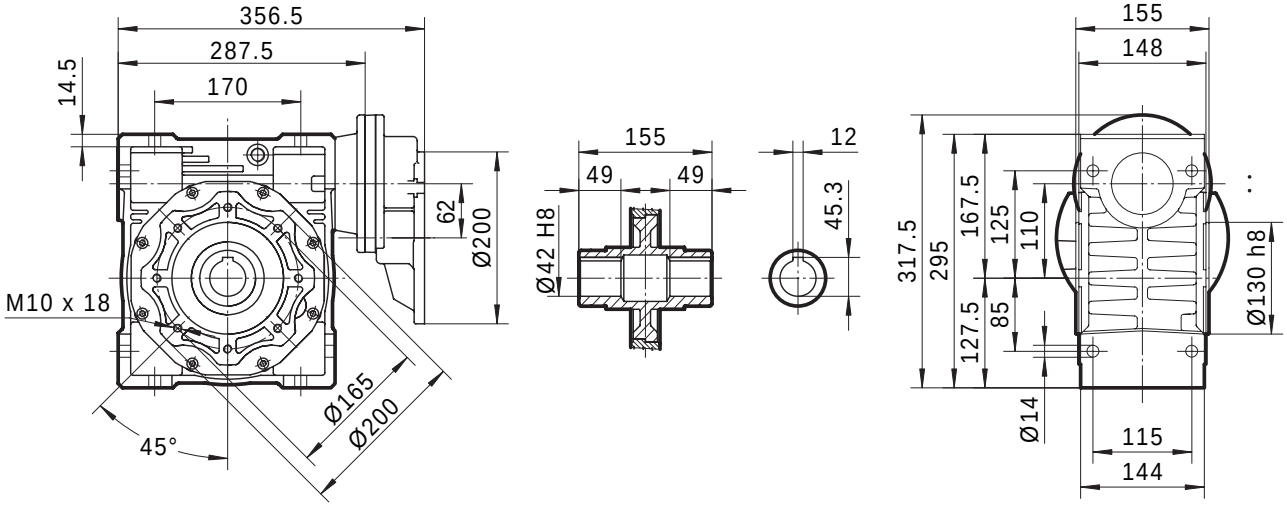




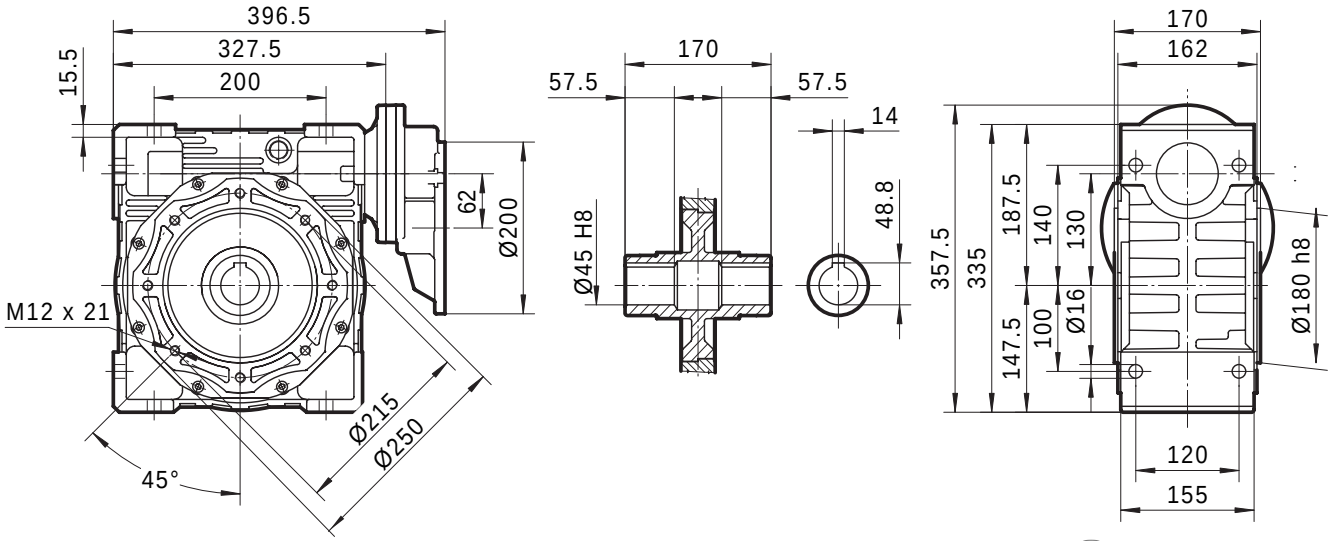
PC080 + RSTV090



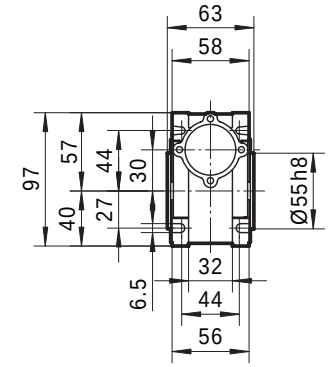
PC080 + RSTV110
PC090 + RSTV110



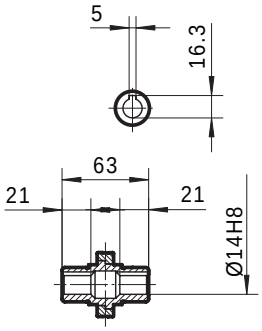
PC080 + RSTV130
PC090 + RSTV130

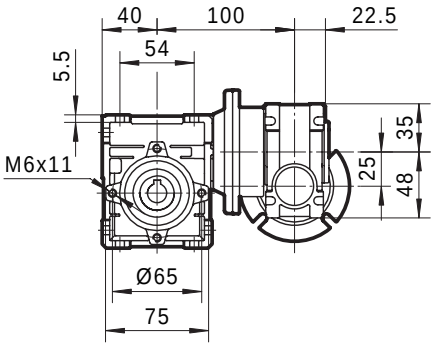


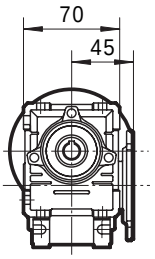
REDUCTORES CORONA Y SIN FIN COMBINADOS
RSTV-RSTV/ RSTIV-RSTV

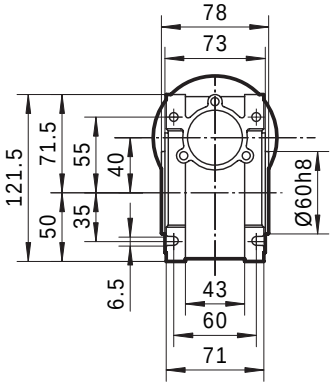


RSTV 025 + 030

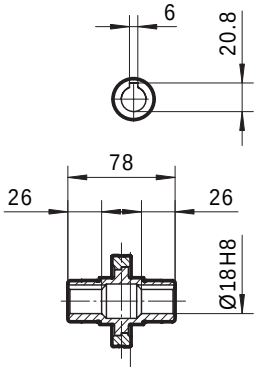


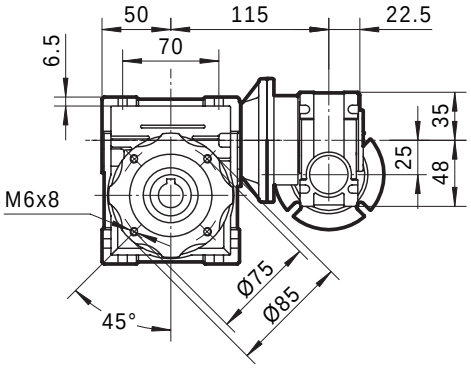


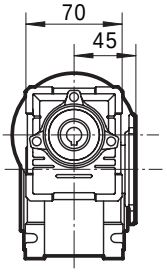


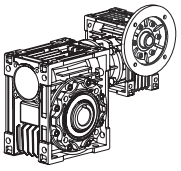


RSTV 025 + 040

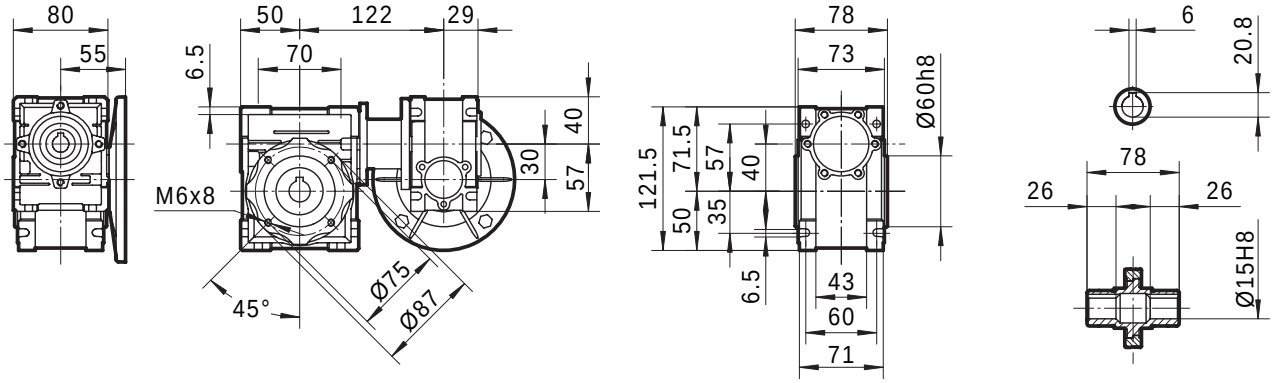




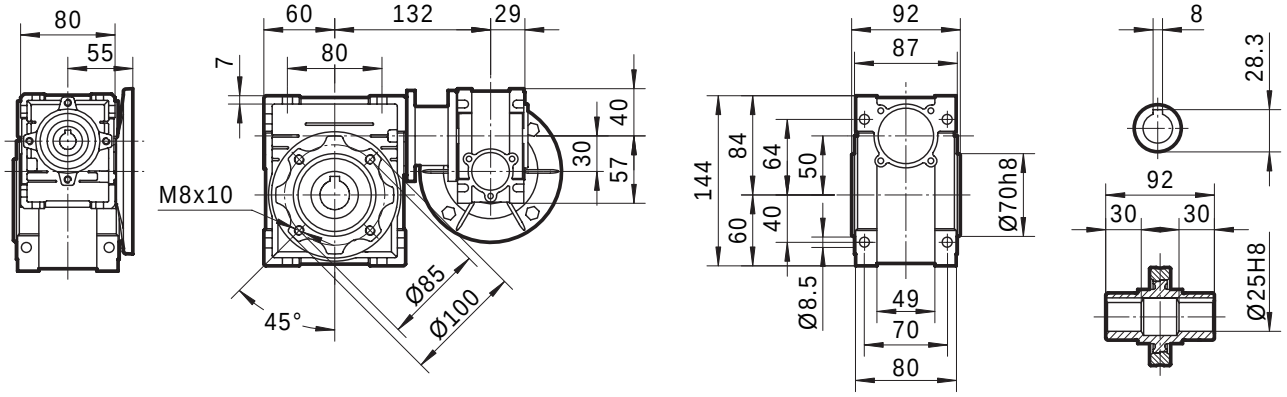




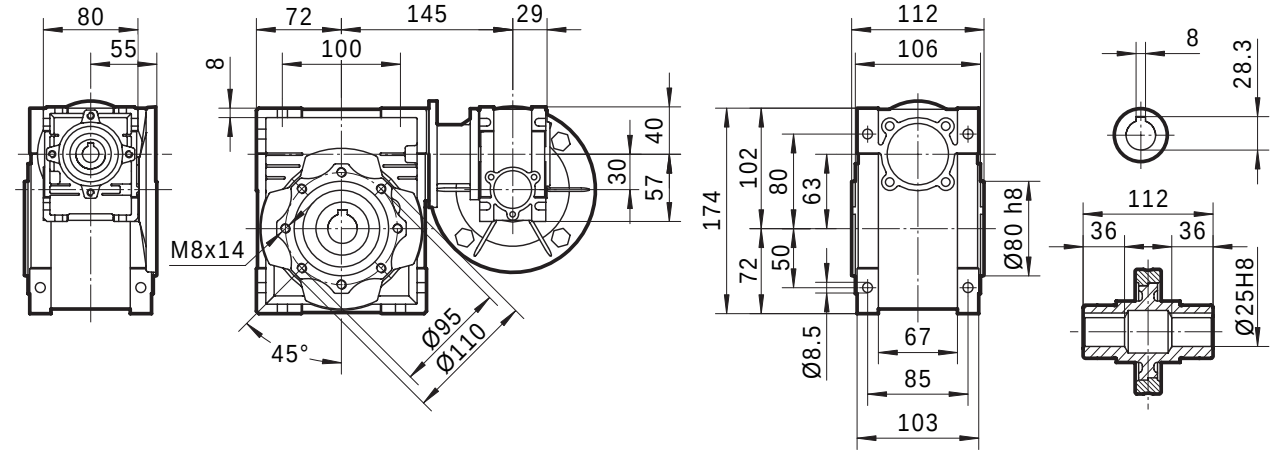
RSTV 030 + 040



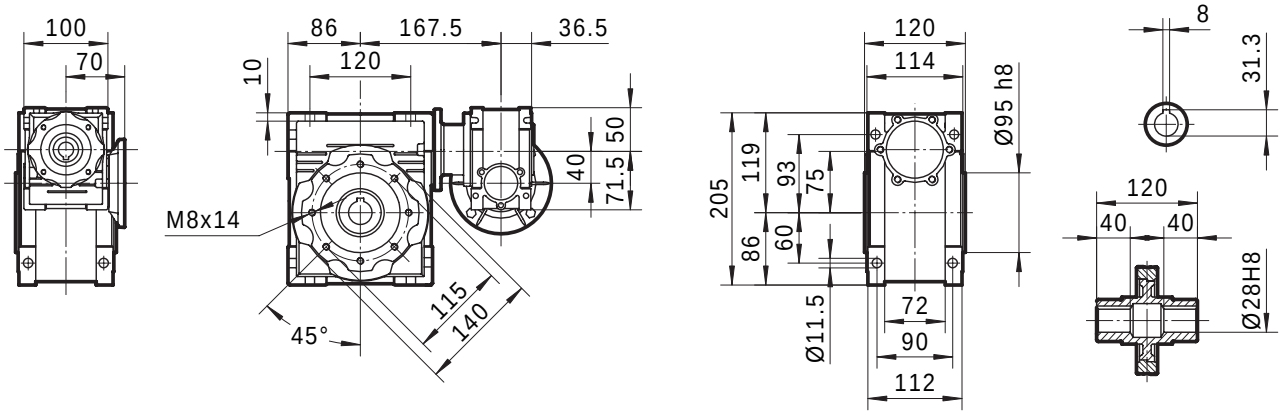
RSTV 030 + 050



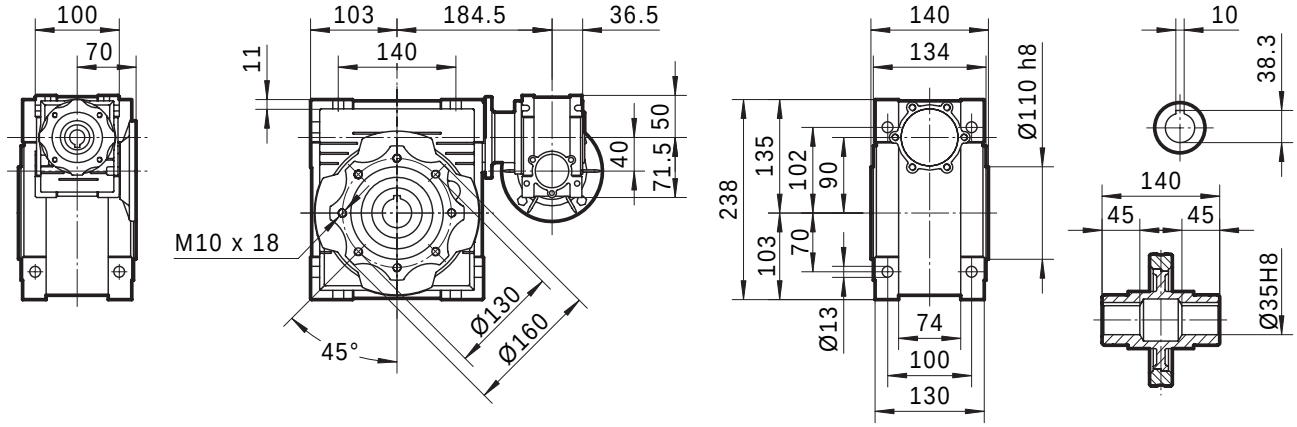
RSTV 030 + 063



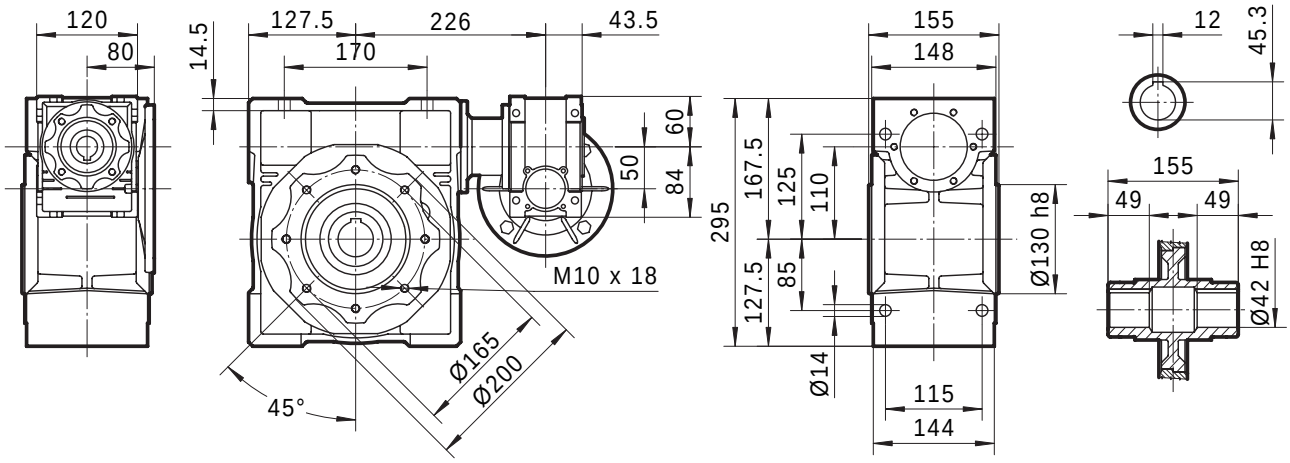
RSTV 040 + 075

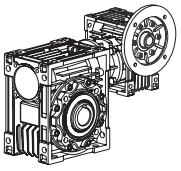


RSTV 040 + 090

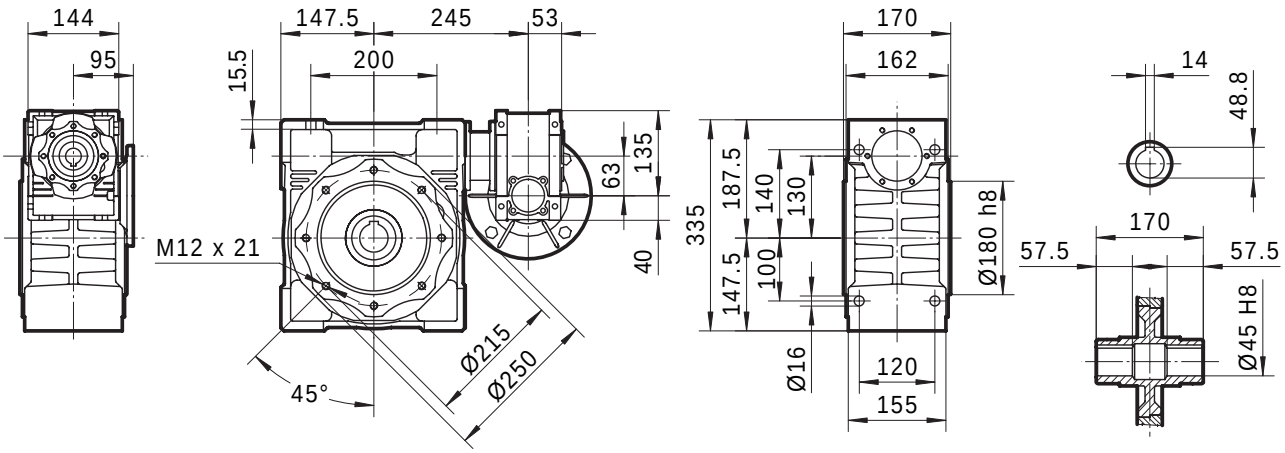


RSTV 050 + 110

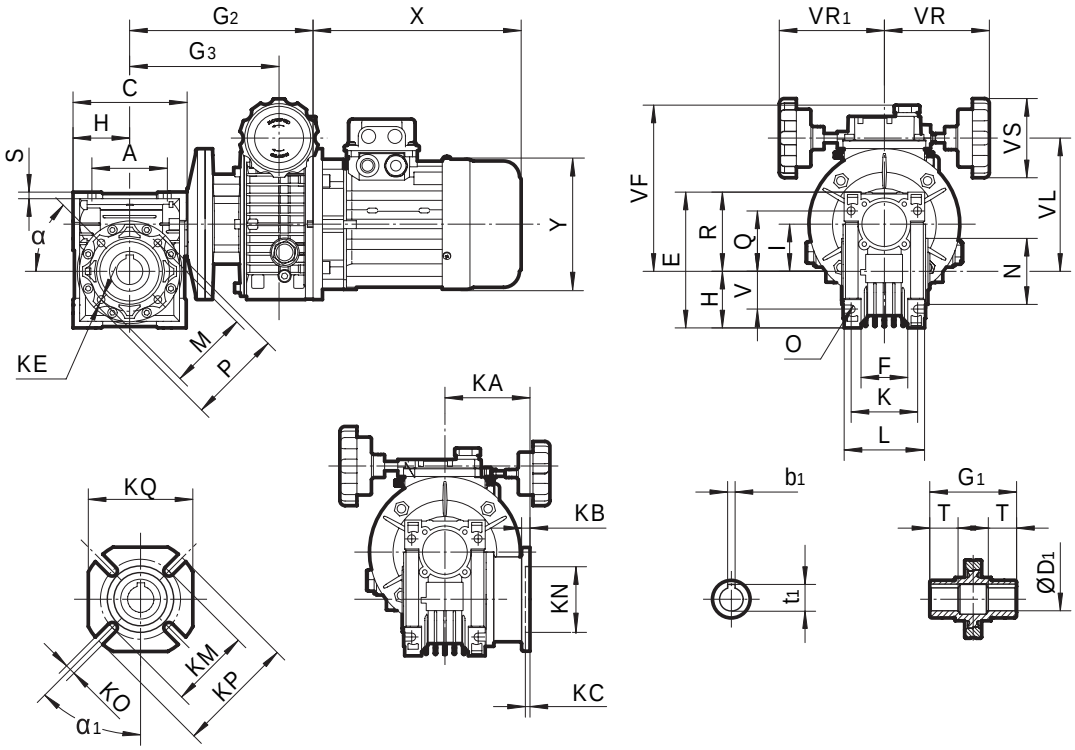




RSTV 063 + 130

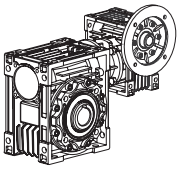

144
95
147.5
245
53
200
15.5
63
135
40
M12 x 21
45°
Ø215
Ø250
170
162
335
187.5
140
130
147.5
100
Ø180 h8
Ø16
120
155
14
48.8
170
57.5
57.5
Ø45 H8

Combinacion de reductor corona y sin hn mas variador



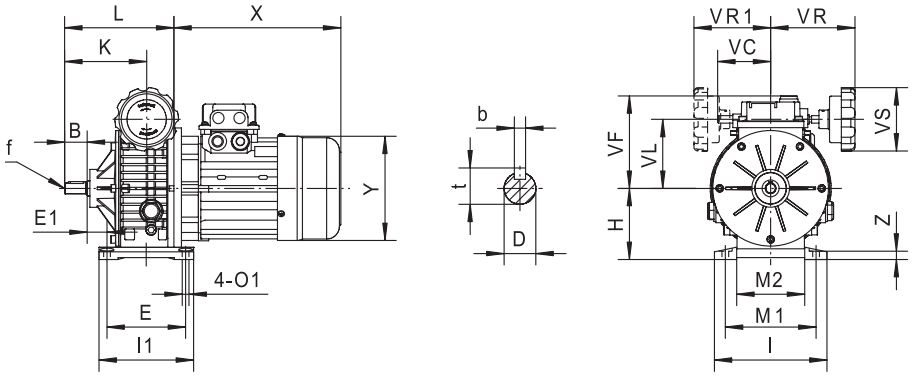
VTF-RSTV

型号 model	G2	G3	VF	VL	VS	VR	VR1	机座号 base No.	X	Y
VTF0.18 - 040	183	135	151	118	85	110	110	63	200	120
VTF0.18 - 050	193	145	161	128	85	110	110			
VTF0.37 - 050	190	154	173	140	85	110	110	71	227	141
VTF0.37 - 063	205	169	186	153	85	110	110			
VTF0.55 - 063	234	181	203	170	110	120	120	80	268	160
VTF0.75 - 063	234	181	203	170	110	120	120			
VTF0.37 - 075	223	187	198	165	85	110	110	71	227	141
VTF0.55 - 075	252	198	215	182	110	120	120	80	268	160
VTF0.75 - 075	252	198	215	182	110	120	120			
VTF-1 1.1 - 075	259.5	207.5	199	177	110	150	—	90S	265	195
VTF-1 1.5 - 075	300.5	227.5	219	197	110	150	—	90L	290	195
VTF0.55 - 090	269	215	230	197	110	120	120	80	268	160
VTF0.75 - 090	269	215	230	197	110	120	120			
VTF-1 1.1 - 090	276.5	224.5	214	192	110	150	—	90S	265	195
VTF-1 1.5 - 090	317.5	244.5	234	212	110	150	—	90L	290	195
VTF-1 1.1 - 110	307	255	234	212	110	120	—	90S	265	195
VTF-1 1.5 - 110	348	275	254	232	110	150	—	90L	290	195
VTF-1 2.2 - 110	368	291	298	260	110	160	—	100L	320	215
VTF-1 3 - 110	368	291	298	260	110	160	—			
VTF-1 4 - 110	368	291	298	260	110	160	—	112M	340	240
VTF-1 1.5 - 130	368	295	274	252	110	150	—	90L	290	195
VTF-1 2.2 - 130	388	311	318	280	110	160	—	100L	320	215
VTF-1 3.0 - 130	388	311	318	280	110	160	—			
VTF-1 4.0 - 130	388	311	318	280	110	160	—	112M	340	240



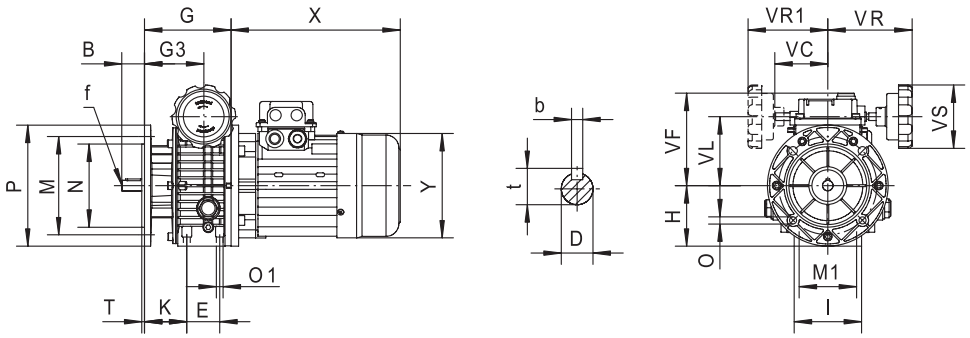
Combinacion de reductor corona y sin hn mas variador

B3 (Model)



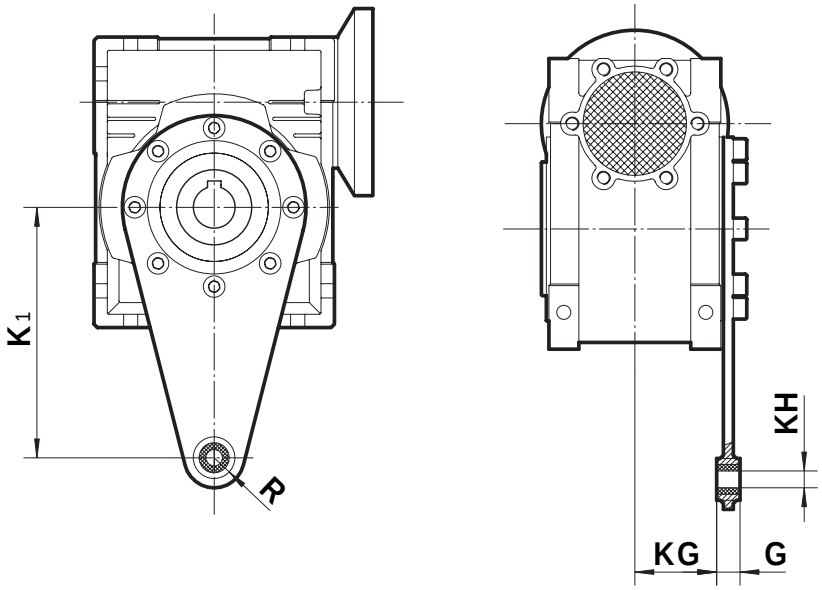
	B	D j6	E	E1	H	I	I1	K	L	M1	M2	O1	VC	VF	VL	VR	VR1	VS	b	f	t	X	Y	Z
VTF 0.18B3	23	11	105	18	80	145	120	88	136	110	71	9	71	111	78	110	110	85	4	-	12.5	200	120	10
VTF 0.37B3	30	14	104	20	93	149	125	104	140	120	96	9	71	123	90	110	110	85	5	M6	16	227	141	10
VTF 0.75B3	40	19	125	26	113	190	150	126	179	160	135	11	79	140	107	120	120	110	6	M6	21.5	268	160	15
VTF 1.5B3	50	24	115	54	123	241	150	165	238	190	143	13	-	144	122	150	-	110	8	M8	27	290	195	18
VTF 2.2B3	60	28	230	25	150	300	270	191	268	245	190	14	-	188	150	150	-	110	8	M8	33	320	215	25
VTF 3.0B3	60	28	230	25	150	300	270	191	268	245	190	14	-	188	150	150	-	110	8	M8	33	320	215	25
VTF 4.0B3	60	28	230	25	150	300	270	191	268	245	190	14	-	188	150	150	-	110	8	M8	33	340	240	25

B5 (Model)

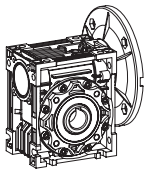


	B	D j6	E	G	G3	H	I	M	M1	N	D	D1	P	T	K	VC	VF	VL	VR	VR1	VS	b	f	t	X	Y
VTF 0.18B5	23	11	50	113	64.5	70	72	115	60	95	9	M6	140	3.5	46	71	111	78	110	110	85	4	-	13	200	120
VTF 0.37B5	30	14	40	110	74	80	90	130	77	110	9	M8	160	3.5	53	71	123	90	100	110	85	5	M6	16	227	141
VTF 0.75B5	40	19	58	139	85.5	100	98	165	84	130	11	M8	200	3.5	60	79	140	107	120	120	110	6	M6	22	268	160
VTF 1.5B5	50	24	-	188	115	126	241	165	-	130	11	-	200	3.5	-	-	144	122	150	-	110	8	M8	27	290	195
VTF 2.2B5	60	28	-	208	131	150	270	165	-	230	15	-	250	4	-	-	188	150	160	-	100	8	M8	33	320	215
VTF 3.0B5	60	28	-	208	131	150	270	265	-	230	15	-	250	4	-	-	188	150	160	-	100	8	M8	33	320	215
VTF 4.0B5	60	28	-	208	131	150	270	265	-	230	15	-	250	4	-	-	188	150	160	-	110	8	M8	33	340	240

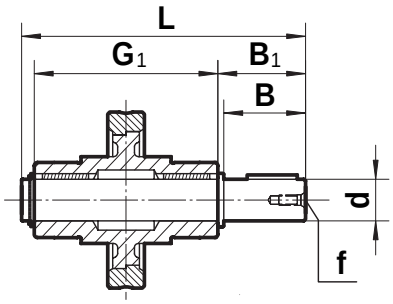
BRAZO DE REACCION

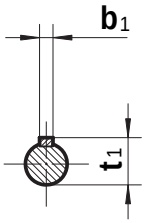


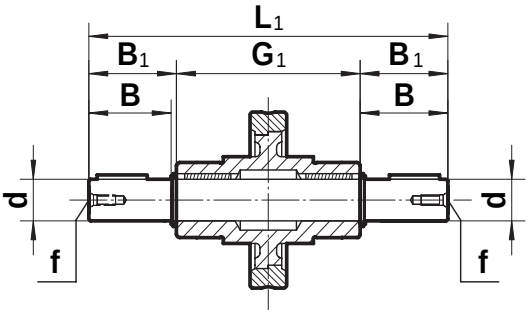
	K1	G	KG	KH	R
025	70	14	17.5	8	15
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35



EJES DE SALIDA





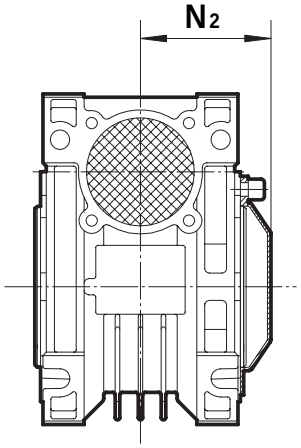


AS **AB**

	d	B	B1	G1	L	L1	f	b1	t1
025	11 g6 9 *	23 25 *	25.5 30 *	50	81 85.5 *	101	—	4 3 *	12.5 10.2 *
030	14 h6	30	32.5	63	102	128	M6	5	16
040	18 h6	40	43	78	128	164	M6	6	20.5
050	25 h6	50	53.5	92	153	199	M10	8	28
063	25 h6	50	53.5	112	173	219	M10	8	28
075	28 h6	60	63.5	120	192	247	M10	8	31
090	35 h6	80	84.5	140	234	309	M12	10	38
110	42 h6	80	84.5	155	249	324	M16	12	45
130	45 h6	80	85	170	265	340	M16	14	48.5

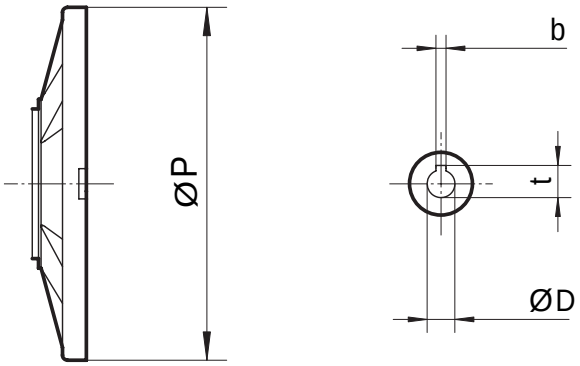
(*) Modelo no standard

TAPA



	N2
030	47
040	55
050	62.5
063	73.5
075	78.5
090	90.5
110	99
130	107

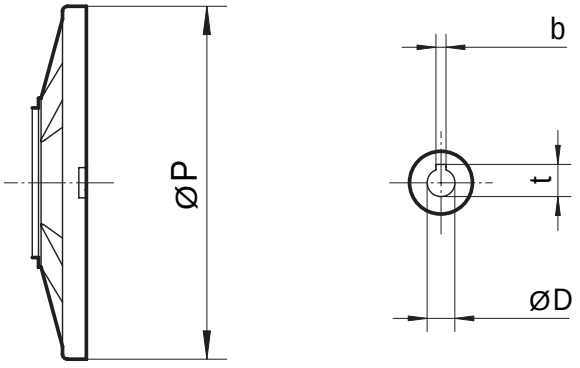
BRIDA PAM B5



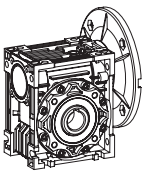
B5	IEC							
	056	**063**	**071**	**080**	**090**	**100**	**112**	**132**
ØP	Ø120	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300
ØD	Ø9 E8	Ø11 E8	Ø14 E8	Ø19 E8	Ø24 E8	Ø28 E8	Ø28 E8	Ø38 E8
b	3	4	5	6	8	8	8	10
t	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3

RSTV (110 、 130)　t = 40.3　(IEC 132)

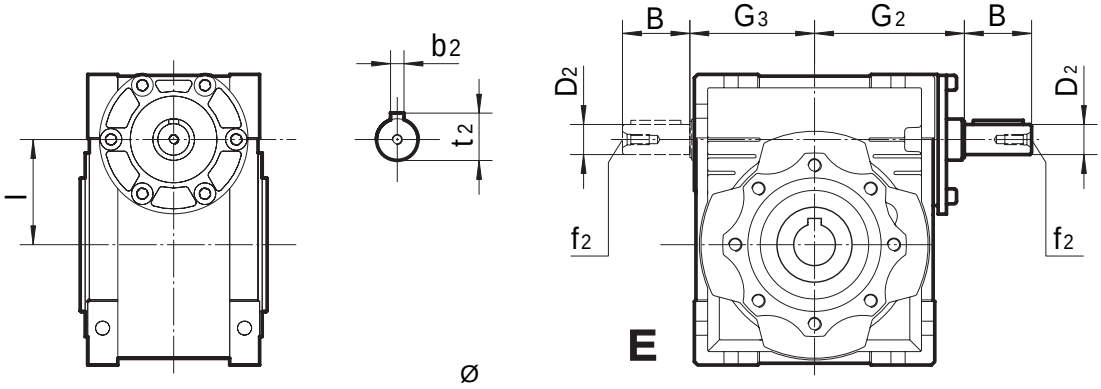
BRIDA PAM B14



B14	IEC						
	056	**063**	**071**	**080**	**090**	**100**	**112**
ØP	Ø80	Ø90	Ø105	Ø120	Ø140	Ø160	Ø160
ØD	Ø9 E8	Ø11 E8	Ø14 E8	Ø19 E8	Ø24 E8	Ø28 E8	Ø28 E8
b	3	4	5	6	8	8	8
t	10.4	12.8	16.3	21.8	27.3	31.3	31.3

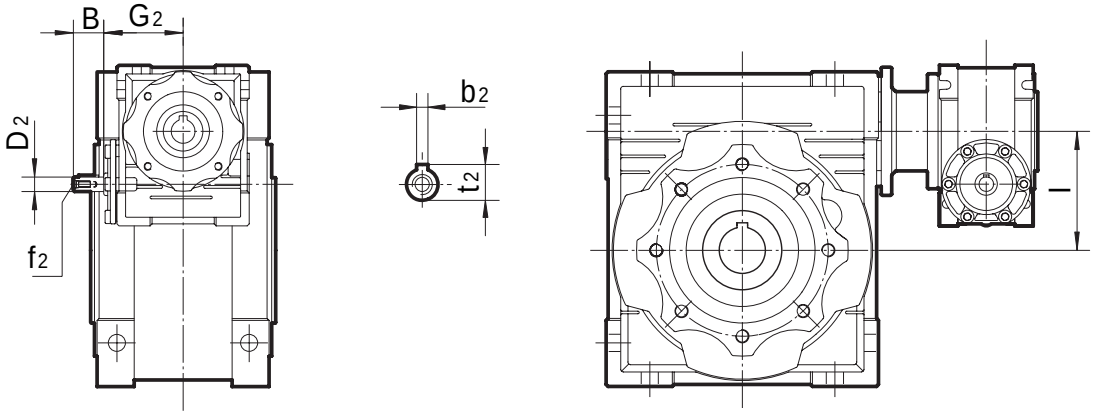


REDUCTORES CORONA Y SIN FIN (RSTIV)

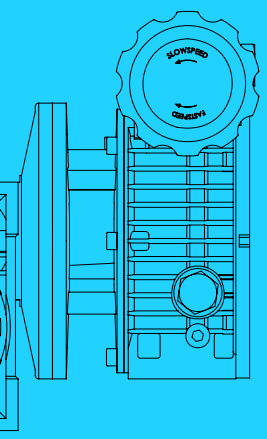
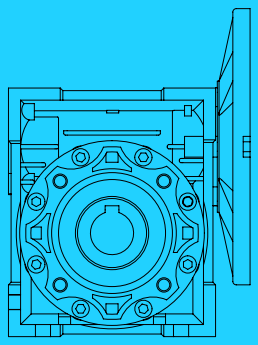
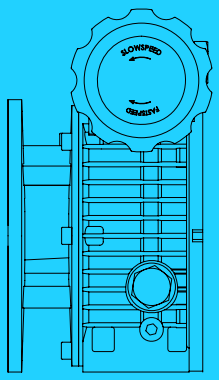
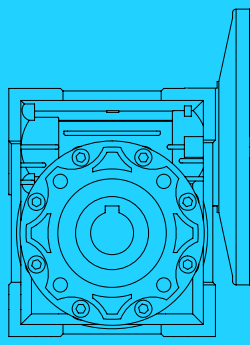


RSTV	**30**	**40**	**50**	**63**	**75**	**90**	**110**	**130**
B	20	23	30	40	50	50	60	80
D2	Ø9 j6	Ø11 j6	Ø14 j6	Ø19 j6	Ø24 j6	Ø24 j6	Ø28 j6	Ø30 j6
G2	51	60	74	90	105	125	142	162
G3	45	53	64	75	90	108	135	155
l	30	40	50	63	75	90	110	130
b2	3	4	5	6	8	8	8	8
f2	-	-	M6	M6	M8	M8	M10	M10
t2	10.2	12.5	16	21.5	27	27	31	33

REDUCTORES CORONA Y SIN FIN COMBINADOS



RSTV-RSTIV	**030-040**	**030-050**	**030-063**	**040-075**	**040-090**	**050-110**	**063-130**
B	20	20	20	23	23	30	40
D2	Ø9 j6	Ø9 j6	Ø9 j6	Ø11 j6	Ø11 j6	Ø14 j6	Ø19 j6
G2	51	51	51	60	60	74	90
l	10	20	33	35	50	60	67
b2	3	3	3	4	4	5	6
f2	-	-	-	-	-	M6	M6
t2	10.2	10.2	10.2	12.5	12.5	16	21.5

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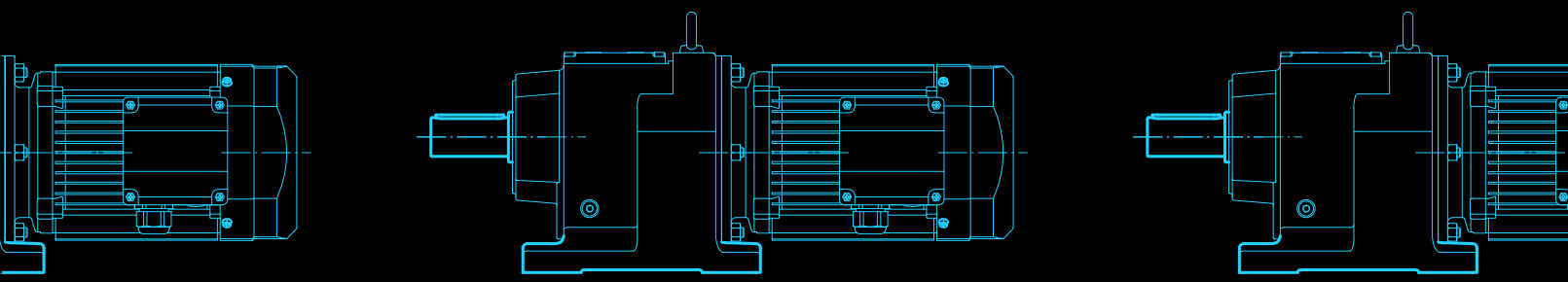

García
Servicios y Suministros Industriales

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1. SUMMARIZE

TR Series helical gearmotor is a new generation mechanic-electrical integrated product, which designed basing on the modular system. It can be connected respectively with motors such as normal motor, brake motor, explosion-proof motor, frequency conversion motor, servo motor, **IEC** motor and so on. It can be mounted discretionary six orientation in solid space. This kind of product is widely used in drive fields such as textile, foodstuff, beverage, chemical industry, automatic arm ladder, automatic storage equipment, metallurgy, tobacco, environment-protection, logistics and so on.

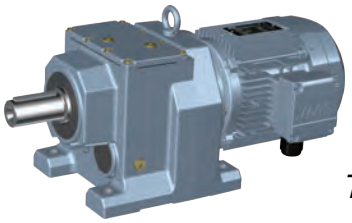
1.1 PERFORMANCE CHARACTERISTICS

1. Transmission ratio with fine stage covers a wide range;
2. Compact structure takes up small room;
3. low vibration; low noise; low energy dissipation;
4. Refined design; reliable and wearable; wide usage;
5. Modular, multistructure, can be combined in many forms to meet needs of all kinds of transmission conditions.

TR Series helical gearmotor of 1-stage, 2-stage or 3-stage helical gears unit and motor. The helical gear which use the material of high quality alloy steel with the surface hardened takes shape through processing of high-precision equipment. Except the **TR..28** housing with aluminum alloy, all are cast iron housing. housing is exactly processed to ensure the shape and position precision. And it reaches advantageous performance such as: strong bearing capacity, long service-life; small volume; big ratio; light weight, high efficiency, low noise.

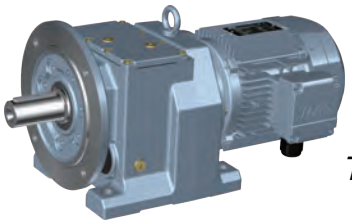
TR Series helical gearmotor has more than ten models. Combined with TRF series, the multi-stage gear reduction can be achieved. Power 0.12-160KW; Ratio 1.3-27001;Torque 69-18000Nm. It can connect (foot, flange) discretionary and use multi-mounting positions according to customers' requirements.

2. PRODUCT PICTURE

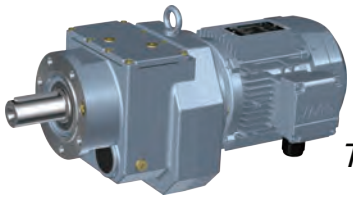


TR..MY..

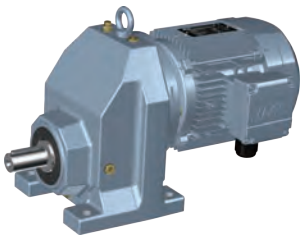
TRF..MY..



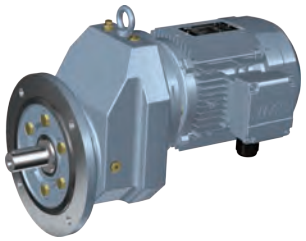
TR..F..MY..



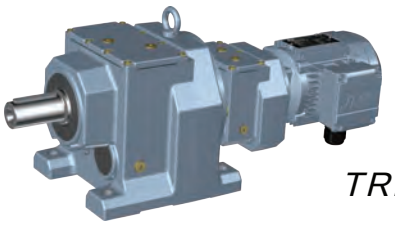
TRZ..MY..



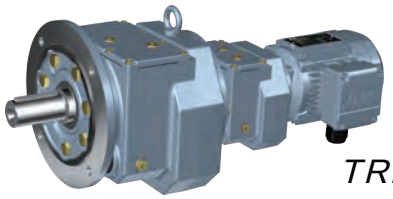
TRX..MY..



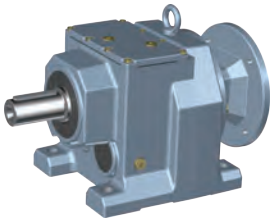
TRXF..MY..



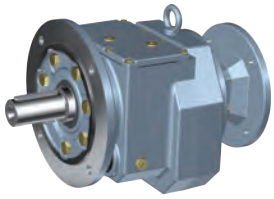
TR../TRF..MY..



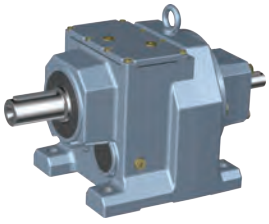
TRF../TRF..MY..



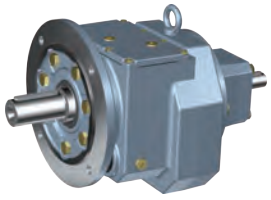
TR..AM(IEC)..



TRF..AM(IEC)..

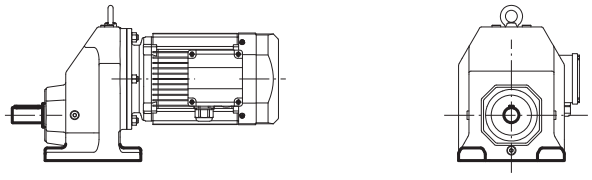


TR..AD..



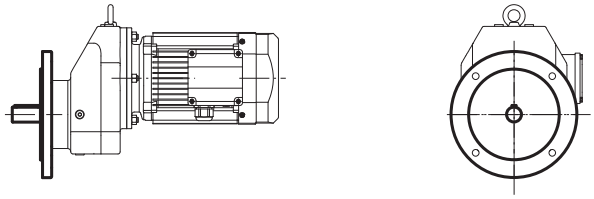
TRF..AD..

2.2 designs



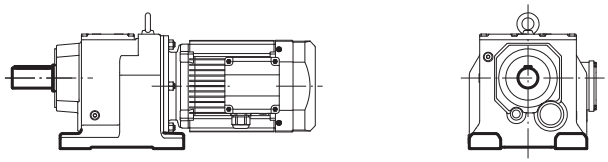
TRX..MY.

Single-stage foot-mounted helical geared motor



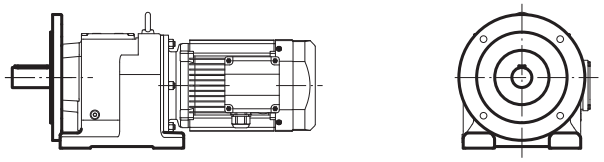
TRXF..MY..

Single-stage flange-mounted helical geared motor



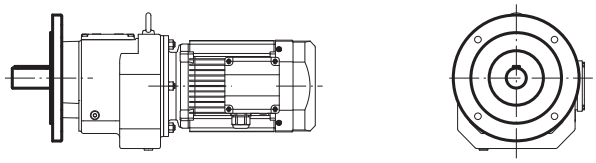
TR..MY..

Foot-mounted helical geared motor



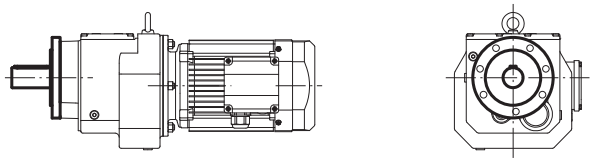
TR..F MY.

Foot and flange-mounted helical geared motor



TRF..MY..

Flange-mounted helical geared motor



TRZ..MY..

B14 flange-mounted helical geared motor

3 MODEL ILLUMINATE

TR F 88 II - MY 112 M 4 / BMG / HF / TF - 27.88 - M6 / 270°

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

No	Comments
1	**TR:** code for gear units series
2	1). no code means foot-mounted 2). **F:** B5 flange mounted 3). **Z:** B14 flange mounted 4). **X:** single-stage foot-mounted 5). **XF:** single-stage flange-mounted
3	specification code of gear units 28, 38, … …
4	1) no code means foot-mounted, no flange 2) **F:** foot-mounted,**B5** output flange 3) **I, II, III: B5** output flange specification,default **I** not to write out is ok
5	1). **MY:** motor code 2). **AM: IEC** input couplings 3). **AD:** Input shaft couplings
6	specification code of motor (high in motor centre)
7	length code of stator core **D, K, L, M, ML, N, S**
8	pole number of motor 2, 4, 6, 8
9	1). no code means no brake 2). **BMG:** brake
10	1). no code means no manual release device 2). **HF:** manual release device with self-locking function 3). **HR:** manual release device without self-locking function
11	1). no code means no motor heat-protection device 2). **TF:** motor heat- protection device
12	transmission ratio of gear units **i**
13	**M1:** mounting positio, default mounting position **M1** not to write out is ok
14	Position diagram for motor terminal box default position **0°(R)** not to write out is ok

Example：**TR48 - MY71D4 - 121.87**

TRF58III - AM80 - 80.55

TRXF68 - MY90S4 / BMG - 1.86 - M1 / R

4. RELEVANT PARAMETER

4.1 Power P

$$P_1 = \frac{P_2}{\eta} \text{ [kW]}$$

$$P_{1n} \geqslant P_1 \cdot f_s \text{ [kW]}$$

P_1	Input power
P_2	Output power
P_{1n}	Rated power driving motor
f_s	Service factor
η	Transmission efficiency

The efficiency of TR Series gear units varies with the number of gear stages, between **94** % (**3-stage**), **96%**(**2-stage**) and **98 %** (**1-stage**).

4.2 Rotation speed n

n_1	Gear units input speed
n_2	Gear units output speed

If driven by the external gearing,1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life. Higher input rotation speed is permitted, but in this situation, the rated torque **M2** will be reduced.

4.3 Transmission ratio i

$$i = \frac{n_1}{n_2}$$

Usually transmission ratio is decimal fraction with 2 radix point tagged in selection tables.

4.4 Torque M

$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

$$M_{2n} \geqslant M_2 \cdot f_s \text{ [Nm]}$$

M_2	Output torque
M_{2n}	Selected output torque
P_1	Input power
η	Transmission efficiency
f_S	Service factor

4.5 Service factor f_S

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor **fs**. The service factor is determined according to the daily operating time and the starting frequency **Z**.

Three load classifications are considered depending on the mass acceleration factor. You can read off the service factor applicable to your application in following Figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.

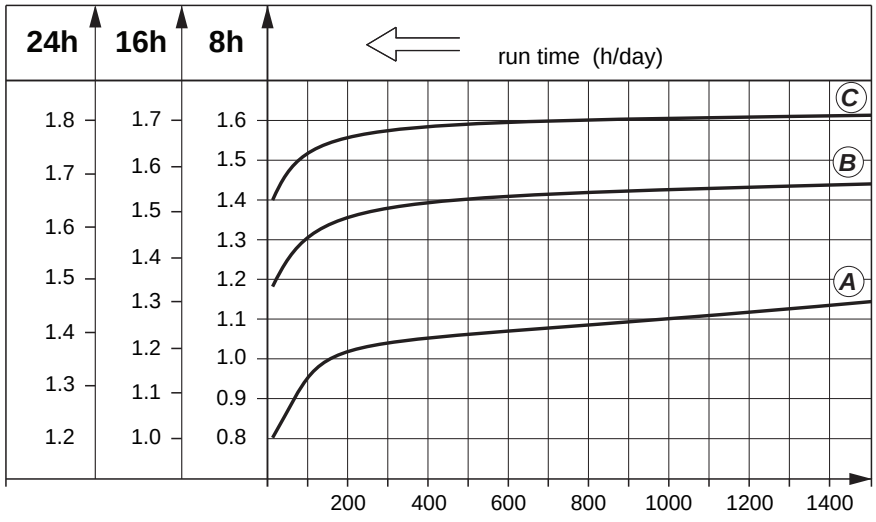


Fig: Service factor（**fs**）

\# starting frequency **Z**: The cycles include all starting and braking procedures as well as change overs from low to high speed.

4.5.1 load classifications

Ⓐ Uniform, permitted mass acceleration factor $f_a \leqslant 0.2$

Ⓑ Moderate shock load, permitted mass acceleration factor $f_a \leqslant 3$

Ⓒ Heavy shock load, permitted mass acceleration factor $f_a \leqslant 10$

Load classifications see the addendum

4.5.2 Mass acceleration factor

The mass acceleration factor is calculated as follows:

$$fa = \frac{Jc}{Jm}$$

fa Mass acceleration factor

Jc All external mass moments of inertia (kgm^2)

Jm Mass moment of inertia on the motor end (kgm^2)

If mass acceleration factors **fa**$>$10, please call our Technical Service.

To keep the service-life of gear units, the use factor $\mathbf{f_S}$ selected from the catalogue must be equal or slightly higher than the calculated use factor $\mathbf{f_S}$.

4.6 Radial loads F_r

When determining the resulting radial loads, the type of transmission elements, mounted on the shaft end must be considered. Various transmission elements are corresponding with following transmission element factors $\mathbf{f_Z}$:

Transmission element	Transmission element factor $\mathbf{F_Z}$	Comments
Gears	1.00	⩾ 17 teeth
	1.15	< 17 teeth
Chain sprockets	1.00	⩾ 20 teeth
	1.25	< 20 teeth
	1.40	< 13 teeth
Narrow V-belt pulleys	1.75	Influence of the tensile force
Flat belt pulleys	2.50	Influence of the tensile force
Toothed belt pulleys	2.50	Influence of the tensile force

The overhung loads exerted on the motor or gear shaft is then calculated as follows:

$$\mathbf{F_r = \frac{M \cdot 2000 \cdot f_z}{d_0}\ [N]}$$

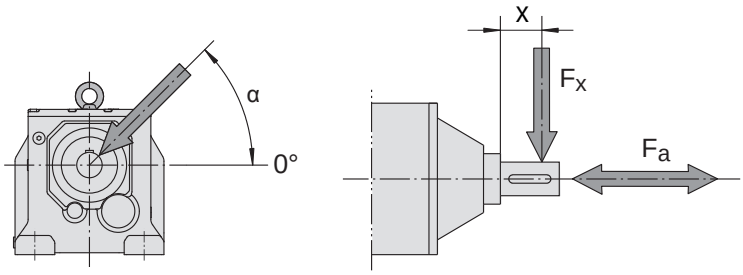
$\mathbf{F_r}$ Resulting radial load [N]
$\mathbf{M}$ Torque on the shaft [Nm]
$\mathbf{d_0}$ Mean diameter of the mounted transmission element in [mm]
$\mathbf{f_z}$ Transmission element factor

The basis for determining the permitted radial loads is the computation of the rated service life **LH10** of the bearings (according to **ISO 281**). For special operating conditions, the permitted radial loads can be determined with regard to the modified service life Lna. The permitted radial loads $\mathbf{F_{r2}}$ for the output shafts of foot-mounted gear units with a solid shaft are listed in the selection tables. Contact our company in case of other versions.

The data refer to the radial force acting midway on the shaft end. Worst case conditions have been assumed for the force application angle α and the direction of rotation.

Foot and flange-mounted helical gear units (**TR..F**): A maximum of 50 % of the overhung load F_{r2} specified in the selection tables for torque transmission via flange mounting are permitted.

Force application is defined according to the following figure:



F_X = Permitted overhung load at point X [N]

F_a = Permitted axial force [N]

4.6.2 Permitted axial forces F_a

If there is no overhung load, then an axial force **F_a** (tension or compression) amounting to 50% of the overhung load given in the selection tables is permitted. This applies to the following geared motors:

- Helical geared motors except for TR..138... to TR..168...;

Contact NEW SUN for all other types of gear units and in the event of significantly greater axial forces or combinations of overhung load and axial force.

The permitted radial loads given in the selection tables must be calculated using the following formula in the event of force application not in the center of the shaft end. The smaller of the two values **F_{xL}** (according to bearing service life) and **F_{xW}** (according to shaft strength) is the permitted value for the radial load at point **x**. Note that the calculations apply to **$M_{2\ max}$**.

F_{xL} according to bearing service life:

$$F_{xL} = F_{r2} \cdot \frac{a}{b + x} \ [N]$$

F_{xW} from theshaft strength:

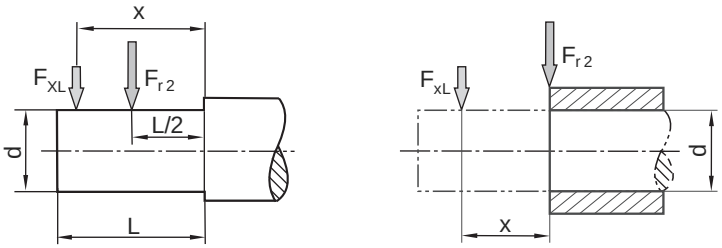
$$F_{xW} = \frac{c}{f + x} \ [N]$$

F_{r2} Permitted overhung load (x = L/2) for foot-mounted gear units according to the selection tables in [N]

x Distance from the shaft shoulder to the force application point in [mm]

a, b, f Gear unit constant for overhung load conversion [mm]

c Gear unit constant for overhung load conversion [Nmm]

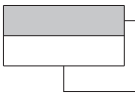


/ Gear unit constantsfor overhung load conversion

Gear unit type	a [mm]	b [mm]	c [Nmm]	f [mm]	d [mm]	L [mm]
TRX58	43.5	23.5	1.51×10^5	34.2	20	40
TRX68	52.5	27.5	2.42×10^5	39.7	25	50
TRX78	60.5	30.5	1.95×10^5	0	30	60
TRX88	73.5	33.5	7.69×10^5	48.9	40	80
TRX98	86.5	36.5	1.43×10^6	53.9	50	100
TRX108	102.5	42.5	2.47×10^6	62.3	60	120
TR28	106.5	81.5	1.56×10^5	11.8	25	50
TR38	118	93	1.24×10^5	0	25	50
TR48	137	107	2.44×10^5	15	30	60

Gear unit type	a [mm]	b [mm]	c [Nmm]	f [mm]	d [mm]	L [mm]
TR58	147.5	112.5	3.77×10^5	18	35	70
TR68	168.5	133.5	2.51×10^5	0	35	70
TR78	173.7	133.7	3.97×10^5	0	40	80
TR88	216.7	166.7	8.47×10^5	0	50	100
TR98	255.5	195.5	1.19×10^6	0	60	120
TR108	285.5	215.5	2.06×10^6	0	70	140
TR138	343.5	258.5	6.14×10^6	30	90	170
TR148	402	297	8.65×10^6	33	110	210
TR168	450	345	1.26×10^7	0	120	210

4.7 Selection tables comments



Combination with the motor in the header row **is possible**

Combination with the motor in the header row **is not possible**

* Finite gear unit reduction ratio;

P_{1n} Rated power driving motor **[kW]**;

n_2 Output speed **[r/min]**;

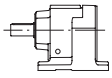
M_{2n} Output torque **[Nm]**;

$M_{2\ max}$ Max. permissible output torque **[Nm]**

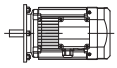
F_{r2} Permissible overhung load output side [N]

i Gear unit ratio;

f_S Service factor;

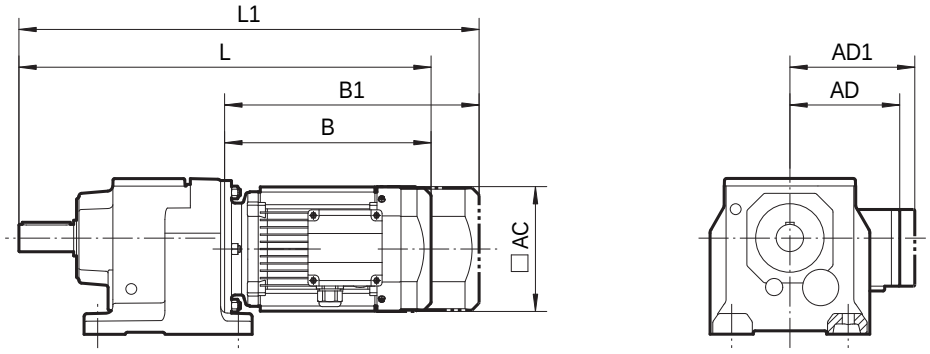


Gear unit type;



Motor type;

Page Dimension sheet page no;



L Total length of gearmotor;

L1 Total length of gearmotor including brake or frequency converter

B Length of motor;

B1 Length of brake motor or frequency converter;

AC Diameter of motor cover;

AD Center of motor shaft to top part of terminal box;

AD1 Center of brake motor shaft to top part of terminal box.

5. SELECTION EXAMPLE

5.1 Gear motor

Example: Required power 16kW on driven machine, work for 8h/day, moderate shock load, so f_s=1.3,**M6** foot-mounted, n_2=61.9 r/min

$$i = \frac{n_1}{n_2} = \frac{1400}{61.9} = 22.62$$

$$P_{1n} \geqslant P_1 \cdot f_s = \frac{P_2}{\eta} \cdot f_s = \frac{16}{0.96} \text{ x } 1.3 = 21.67 \text{ [kW]}$$

Choose type:

TR108 - MY180L4 - 22.62 - M6

5.2 Gear units

Example: Recluired torquc 480Nrn on driven machine, work 6h/day, uniform load, so f_s=1.1,flange-mounted, n_2=2.5 r/min, choose TR../TRF..

$$i = \frac{n_1}{n_2} = \frac{1400}{2.5} = 560$$

$$M_{2n} \geq M_2 \cdot f_s = 480 \text{ x } 1.1 = 528 \text{ [Nm]}$$

$$P_{1n} \geqslant P_1 \cdot f_s = \frac{M_2 \cdot n_1}{9550 \cdot \eta \cdot i} \cdot f_s = \frac{480x1400}{9550 \text{ x } 0.94 \text{ x } 0.96 \text{ x } 560} \text{ x } 1.1 = 0.153 \text{ [kW]}$$

Choose type:

TRF78 / TRF38 - MY63M4 - 560

6. GEAR UNIT SELECTION TABLES

6.1 Possible geometrical combinations

TRX..58 n_1=1400 r/min 69Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM / MY132S
255	39	3100	5.50*						
276	36	3030	5.07						
322	68	2640	4.35						
369	69	2480	3.79						
394	69	2420	3.55*						
446	65	2320	3.14						
481	67	2170	2.91						
530	69	1810	2.64*						
591	69	1500	2.37						
686	69	1070	2.04						
729	69	890	1.92*						
848	69	430	1.65						
946	68	112	1.48						
1075	63	132	1.30						

TRX..68 n_1=1400 r/min 134Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM / MY132S AM / MY132M
231	43	4010	6.07						
270	75	3580	5.18						
309	82	3350	4.53						
326	80	3300	4.30*						
371	87	3090	3.77						
438	100	2800	3.20*						
484	106	2640	2.89						
551	118	2000	2.54						
583	123	1530	2.40*						
686	134	230	2.04						
753	126	225	1.86						
870	114	245	1.61						
1000	104	205	1.40*						

TRX..78 n_1=1400 r/min 215Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M
175	57	6330	8.00*							
187	53	6200	7.47							
218	103	5600	6.41							
249	110	5300	5.63							
262	103	5240	5.35*							
296	123	4900	4.73							
347	143	4500	4.04*							
378	153	4290	3.70							
431	182	3200	3.25*							
455	193	2560	3.08*							
519	215	1110	2.70							
576	215	510	2.43							
657	200	435	2.13							
745	187	335	1.88*							
838	173	315	1.67							
986	155	315	1.42							

TRX..88 n_1=1400 r/min 405Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180
162	139	7890	8.65							
183	149	7490	7.63							
194	140	7380	7.20*							
217	192	6850	6.45							
252	225	6320	5.56*							
276	250	5980	5.07							
311	290	5500	4.50*							
370	305	5030	3.78							
402	405	2730	3.48							
453	405	1950	3.09							
507	405	1200	2.76*							
565	405	470	2.48							
651	385	42	2.15							
725	355	185	1.93							
875	315	74	1.60*							
1005	290	74	1.39							

TRX..98 n_1=1400 r/min 595Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 MY225M MY225S
170	225	9560	8.23								
196	260	8950	7.16*								
213	300	8500	6.56								
242	420	7630	5.79								
285	395	7220	4.91								
310	595	6180	4.52								
347	595	5380	4.04								
385	595	4530	3.64*								
424	595	3730	3.30								
479	595	2810	2.92								
530	595	1980	2.64								
625	595	495	2.24*								
714	570	19	1.96								
854	505	51	1.64								
986	455	132	1.42								

TRX..108 n_1=1400 r/min — 830Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M
211	460	9700	6.63*						
250	455	9080	5.61						
270	695	7850	5.19						
301	695	7450	4.65						
333	830	6420	4.20*						
367	830	5550	3.81						
414	830	4490	3.38						
456	830	3600	3.07						
530	830	2170	2.64*						
609	830	900	2.30						
718	765	555	1.95						
819	705	480	1.71						
972	645	315	1.44						

TR..18 n_1=1400 r/min — 85Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80
3Stage					
17	85	1770	81.64		
20	85	1770	70.39		
21	85	1770	65.61		
24	85	1770	57.35		
26	85	1770	53.76		
30	85	1770	47.44		
32	85	1770	44.18		
36	85	1770	38.61		
39	85	1770	36.20		
44	85	1770	31.94		
49	85	1770	28.32		
58	85	1650	24.07		
2Stage					
55	85	1690	25.23		
60	85	1620	23.15		
71	85	1500	19.71		
82	85	1400	16.99		
88	85	1350	15.84		
101	85	1270	13.84		
108	85	1230	12.98		
122	81	1180	11.45		
138	77	1140	10.15		
162	72	1090	8.63		
185	56	1040	7.55		
199	55	1010	7.04		
228	54	950	6.15		
243	53	930	5.76		
275	51	890	5.09		
310	48	870	4.51		
366	45	830	3.83		

TR..28 n_1=1400 r/min 130Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100
3Stage							
10	130	4230	135.09				
11	130	4230	123.91				
13	130	4230	105.49				
15	130	4230	90.96				
17	130	4230	84.78				
19	130	4230	74.11				
20	130	4180	69.47				
23	130	3980	61.3				
25	130	3840	55.87				
29	130	3630	48.17				
31	130	3530	44.9				
36	130	3350	39.25				
38	130	3260	36.79				
43	130	3100	32.47				
49	130	2950	28.78				
57	130	2770	24.47				
2Stage							
49	130	2940	28.37				
54	130	2840	26.09				
63	130	2660	22.32				
72	130	2510	19.35				
77	130	2440	18.08				
90	130	2290	15.63				
105	130	2140	13.28*				
118	129	1990	11.86				
138	122	1890	10.13				
149	122	900	9.41				
172	116	870	8.16				
183	112	900	7.63*				
212	106	880	6.59				
250	99	880	5.60*				
280	95	860	5.00*				
328	87	920	4.27				
350	85	910	4.00*				
415	79	900	3.37				

TR..28/TRF18 n_1=1400 r/min 130Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80
3Stage / 3Stage					
0.16	130	4230	8612		
0.19	130	4230	7425		
0.20	130	4230	6921		
0.23	130	4230	6050		
0.27	130	4230	5217		
0.30	130	4230	4661		
0.34	130	4230	4073		
0.40	130	4230	3516		
0.44	130	4230	3160		
0.51	130	4230	2763		
0.58	130	4230	2414		
0.66	130	4230	2110		
0.75	130	4230	1862		

TR..28/TRF18 n_1=1400 r/min — 130Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80
3Stage / 3Stage					
0.86	130	4230	1625		
0.98	130	4230	1434		
1.1	130	4230	1254		
2Stage / 3Stage					
0.77	130	4230	1822		
0.89	130	4230	1580		
0.96	130	4230	1464		
1.1	130	4230	1270		
1.3	130	4230	1100		
1.4	130	4230	972		
1.7	130	4230	840		
1.9	130	4230	741		
2.1	130	4230	654		
2.5	130	4230	566		
2.8	130	4230	499		
3Stage / 2Stage					
1.3	130	4230	1101		
1.5	130	4230	962		
1.7	130	4230	848		
1.9	130	4230	743		
2.2	130	4230	649		
2.5	130	4230	567		
2.8	130	4230	509		
3.2	130	4230	432		
3.6	130	4230	387		
4.1	130	4230	339		
4.7	130	4230	296		
5.4	130	4230	259		
6.1	130	4230	229		
7.0	130	4230	200		
7.9	130	4230	177		
8.4	130	4230	166		
9.3	130	4230	150		
9.9	130	4230	141		
11	130	4230	124		
13	130	4230	110		
15	130	4230	94		
2Stage / 2Stage					
3.2	130	4230	440		
3.7	130	4230	381		
4.3	130	4230	329		
4.8	130	4230	290		
5.5	130	4230	256		
6.2	130	4230	227		
6.9	130	4230	203		
7.8	130	4230	179		
9.0	130	4230	156		
10	130	4230	135		
12	130	4230	118		
13	130	4230	104		
16	130	4230	90		

TR..38 n_1=1400 r/min 200Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100
3Stage							
10	200	4950	134.82				
11	200	4950	123.66				
13	200	4950	105.28				
15	200	4950	90.77				
17	200	4950	84.61				
19	200	4950	73.96				
20	200	4950	69.33				
23	200	4950	61.18				
25	200	4950	55.76				
29	200	4950	48.08				
31	200	4950	44.81				
36	200	4760	39.17				
38	200	4540	36.72				
43	200	4120	32.40				
49	200	3740	28.73				
57	200	3240	24.42				
2Stage							
49	200	3690	28.32				
54	185	3860	26.03				
63	200	2970	22.27				
73	200	2570	19.31				
78	200	2390	18.05				
90	200	2010	15.60				
106	190	1880	13.25				
118	183	1810	11.83				
138	170	1820	10.11				
148	167	1760	9.47				
176	156	1720	7.97				
210	144	1000	6.67				
247	142	760	5.67				
277	135	790	5.06				
324	126	820	4.32				
346	122	850	4.05				
411	112	900	3.41				

TR..38/TRF18 n_1=1400 r/min 200Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80
3Stage / 3Stage					
0.16	200	4950	8595		
0.19	200	4950	7411		
0.20	200	4950	6907		
0.23	200	4950	6038		
0.27	200	4950	5206		
0.30	200	4950	4651		
0.34	200	4950	4065		
0.38	200	4950	3658		
0.44	200	4950	3154		
0.51	200	4950	2757		
0.58	200	4950	2409		
0.66	200	4950	2106		
0.75	200	4950	1856		
0.86	200	4950	1622		

TR..38/TRF18 n_1=1400 r/min 200Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80
3Stage / 3Stage					
0.98	200	4950	1431		
1.1	200	4950	1251		
2Stage / 3Stage					
0.77	200	4950	1818		
0.89	200	4950	1576		
1.0	200	4950	1359		
1.1	200	4950	1267		
1.3	200	4950	1098		
1.4	200	4950	970		
1.7	200	4950	839		
1.9	200	4950	740		
2.1	200	4950	653		
2.4	200	4950	577		
2.8	200	4950	498		
3Stage / 2Stage					
1.3	200	4950	1099		
1.5	200	4950	960		
1.7	200	4950	847		
1.9	200	4950	741		
2.2	200	4950	647		
2.5	200	4950	566		
2.8	200	4950	508		
3.2	200	4950	431		
3.6	200	4950	387		
4.1	200	4950	338		
4.7	200	4950	296		
5.4	200	4950	259		
6.1	200	4950	228		
7.0	200	4950	199		
8.1	200	4950	172		
9.3	200	4950	150		
11	200	4950	130		
11	200	4950	124		
13	200	4950	110		
15	200	4950	94		
2Stage / 2Stage					
3.2	200	4950	439		
3.7	200	4950	378		
4.3	200	4950	328		
4.8	200	4950	289		
5.3	200	4950	265		
6.2	200	4950	226		
6.9	200	4950	202		
7.8	200	4950	179		
9.0	200	4950	156		
10	200	4950	135		
11	200	4950	127		
13	200	4950	104		
16	200	4950	90		

TR..48 n_1=1400 r/min 300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S
3Stage									
7.9	300	5420	176.88						
8.6	300	5420	162.94						
10	300	5420	139.99						
11	300	5420	121.87						
12	300	5420	114.17						
14	300	5420	100.86						
15	300	5420	93.68						
16	300	5420	84.90						
18	300	5420	76.23						
20	300	5420	68.54						
22	300	5420	64.21						
25	300	5420	56.73						
27	300	5350	52.69						
29	300	5150	47.75						
33	300	4930	42.87						
38	300	4630	36.93						
40	300	4520	34.73						
47	300	4240	29.88						
52	300	4050	26.70						
59	300	3840	23.59						
2Stage									
41	240	4690	33.79						
45	220	4610	31.12						
52	300	4050	26.74						
60	300	3820	23.28						
64	300	3710	21.81						
73	295	3530	19.27						
78	290	3390	17.89						
86	275	3350	16.22						
96	265	3230	14.56						
112	250	3080	12.54						
119	245	3020	11.79						
138	230	2890	10.15						
154	220	2780	9.07						
175	205	2690	8.01						
180	163	2720	7.76*						
201	159	2620	6.96						
233	156	2470	6.00						
248	155	2410	5.64*						
289	150	2280	4.85						
323	146	2190	4.34						
366	144	2090	3.83						

TR..48/TRF38 n_1=1400 r/min 300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
3Stage / 3Stage							
0.10	300	5420	13598				
0.11	300	5420	12472				
0.13	300	5420	10619				
0.15	300	5420	9155				
0.16	300	5420	8534				
0.19	300	5420	7460				

TR..48/TRF38 n_1=1400 r/min — 300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
3Stage / 3Stage							
0.20	300	5420	6993				
0.23	300	5420	6171				
0.25	300	5420	5624				
0.29	300	5420	4849				
0.31	300	5420	4520				
0.35	300	5420	3951				
0.38	300	5420	3704				
0.43	300	5420	3268				
0.48	300	5420	2898				
0.57	300	5420	2463				
2Stage / 3Stage							
0.54	300	5420	2598				
0.59	300	5420	2383				
0.69	300	5420	2029				
0.80	300	5420	1749				
0.86	300	5420	1630				
0.98	300	5420	1425				
1.0	300	5420	1336				
1.2	300	5420	1179				
1.3	300	5420	1074				
1.5	300	5420	927				
1.6	300	5420	863				
1.9	300	5420	755				
2.0	300	5420	708				
2.2	300	5420	624				
2.5	300	5420	554				
3.0	300	5420	471				
3Stage / 2Stage							
0.49	300	5420	2856				
0.53	300	5420	2625				
0.62	300	5420	2246				
0.72	300	5420	1948				
0.77	300	5420	1821				
0.89	300	5420	1573				
1.20	300	5420	1193				
1.40	300	5420	1020				
1.50	300	5420	955				
1.70	300	5420	804				
2.1	300	5420	673				
2.4	300	5420	572				
2.7	300	5420	510				
3.2	300	5420	436				
3.4	300	5420	408				
4.1	300	5420	344				
2Stage / 2Stage							
2.6	300	5420	546				
2.8	300	5420	502				
3.3	300	5420	429				
3.8	300	5420	372				
4.0	300	5420	348				
4.7	300	5420	301				
5.5	300	5420	255				
6.1	300	5420	228				
7.2	300	5420	195				
7.7	300	5420	182				

TR..48/TRF38 n_1=1400 r/min 300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
2Stage / 2Stage							
9.1	300	5420	154				
11	300	5420	129				
13	300	5420	109				
14	300	5420	98				

TR..58 n_1=1400 r/min 450Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M
3Stage									
7.5	450	7110	186.89						
8.1	450	7110	172.17						
9.5	450	7110	147.92						
11	450	7110	128.77						
12	450	7110	120.63						
13	450	7110	106.58						
14	450	7110	98.99						
16	450	7110	89.71						
17	450	7110	80.55						
20	450	7110	69.23						
22	450	6980	64.85						
24	450	6630	57.29						
26	450	6430	53.22						
29	450	6170	48.23						
32	450	5900	43.30						
38	450	5530	37.30*						
40	450	5390	35.07						
46	450	5050	30.18						
52	450	4800	26.97						
2Stage									
53	450	4750	26.31						
56	450	4640	24.99*						
64	450	4370	21.93						
75	450	4050	18.60*						
83	450	3860	16.79						
95	435	3690	14.77*						
100	430	3610	13.95*						
118	405	3430	11.88						
130	390	3330	10.79						
150	370	3180	9.35						
155	375	2010	9.06						
176	355	2020	7.97						
186	350	1950	7.53						
218	335	1770	6.41						
241	320	1820	5.82						
277	305	1730	5.05						
319	280	1900	4.39						

TR..58/TRF38 n_1=1400 r/min — 450Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
3Stage / 3Stage							
0.10	450	7110	14369				
0.12	450	7110	12095				
0.13	450	7110	10860				
0.15	450	7110	9445				
0.17	450	7110	8480				
0.19	450	7110	7312				
0.21	450	7110	6521				
0.25	450	7110	5585				
0.28	450	7110	4928				
0.32	450	7110	4378				
0.36	450	7110	3873				
0.42	450	7110	3344				
0.48	450	7110	2907				
0.55	450	7110	2567				
0.62	450	7110	2244				
0.71	450	7110	1967				
2Stage / 3Stage							
0.47	450	7110	2957				
0.56	450	7110	2508				
0.61	450	7110	2309				
0.70	450	7110	1991				
0.79	450	7110	1768				
0.92	450	7110	1520				
1.0	450	7110	1342				
1.2	450	7110	1164				
1.4	450	7110	1027				
1.6	450	7110	894				
1.7	450	7110	805				
2.0	450	7110	683				
2.3	450	7110	603				
2.6	450	7110	534				
3.1	450	7110	454				
3.4	450	7110	410				
3Stage / 2Stage							
0.81	450	7110	1732				
0.90	450	7110	1555				
1.0	450	7110	1399				
1.2	450	7110	1189				
1.4	450	7110	1034				
1.8	450	7110	782				
2.1	450	7110	678				
2.3	450	7110	604				
2.6	450	7110	537				
3.0	450	7110	471				
3.9	450	7110	357				
4.4	450	7110	319				
5.1	450	7110	273				
5.8	450	7110	241				
6.5	450	7110	215				
7.5	450	7110	187				
8.5	450	7110	164				
9.9	450	7110	142				
2Stage / 2Stage							
3.9	450	7110	359				
4.3	450	7110	324				

TR..58/TRF38 n_1=1400 r/min 450Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
2Stage / 2Stage							
4.8	450	7110	290				
5.3	450	7110	262				
5.7	450	7110	246				
6.4	450	7110	220				
7.4	450	7110	188				
8.8	450	7110	159				
9.6	450	7110	146				
10	450	7110	134				

TR..68 n_1=1400 r/min 600Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M
3Stage									
7.0	600	7560	199.81						
7.6	600	7560	184.07						
8.9	600	7560	158.14						
10	600	7560	137.67						
11	600	7560	128.97						
12	600	7560	113.94						
13	600	7560	105.83						
15	600	7560	95.91						
16	600	7560	86.11						
19	600	7560	74.17						
20	600	7560	69.75						
23	600	7560	61.26						
25	600	7560	56.89						
27	600	7560	51.56						
30	600	7560	46.29						
35	580	7790	39.88*						
37	570	7900	37.50						
43	540	8210	32.27						
49	520	8400	28.83						
2Stage									
50	540	8210	28.13						
52	540	8210	26.72						
60	560	8010	23.44						
70	600	7560	19.89						
78	590	7330	17.95						
89	560	7130	15.79						
94	550	6980	14.91						
110	520	6650	12.70						
121	500	6500	11.54						
140	470	6220	10.00						
161	440	5960	8.70*						
180	380	5830	7.79						
190	370	5790	7.36*						
223	330	5590	6.27						
246	310	5450	5.70						
284	290	5210	4.93						
326	270	5000	4.29						

TR..68/TRF38 n_1=1400 r/min — 600Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
3Stage / 3Stage							
0.09	600	7560	15361				
0.11	600	7560	12931				
0.12	600	7560	11996				
0.14	600	7560	10097				
0.15	600	7560	9066				
0.18	600	7560	7816				
0.21	600	7560	6732				
0.23	600	7560	5970				
0.27	600	7560	5268				
0.30	600	7560	4680				
0.34	600	7560	4136				
0.39	600	7560	3566				
0.45	600	7560	3125				
0.51	600	7560	2745				
0.58	600	7560	2403				
2Stage / 3Stage							
0.52	600	7560	2682				
0.57	600	7560	2460				
0.67	600	7560	2094				
0.78	600	7560	1805				
0.86	600	7560	1629				
0.95	600	7560	1471				
1.0	600	7560	1379				
1.3	600	7560	1109				
1.5	600	7560	956				
1.6	600	7560	891				
1.9	600	7560	730				
2.2	600	7560	644				
2.5	600	7560	571				
2.9	600	7560	486				
3Stage / 2Stage							
0.66	600	7560	2136				
0.76	600	7560	1852				
0.85	600	7560	1652				
0.98	600	7560	1432				
1.1	600	7560	1259				
1.3	600	7560	1106				
1.7	600	7560	836				
1.9	600	7560	750				
2.2	600	7560	646				
2.4	600	7560	574				
2.8	600	7560	495				
3.2	600	7560	438				
3.6	600	7560	388				
4.1	600	7560	344				
4.8	600	7560	294				
5.4	600	7560	261				
6.0	600	7560	234				
7.0	600	7560	200				
8.0	600	7560	176				
8.9	600	7560	158				
2Stage / 2Stage							
3.2	600	7560	443				
3.6	600	7560	384				

TR..68/TRF38 n_1=1400 r/min 600Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
2Stage / 2Stage							
4.5	600	7560	310				
5.3	600	7560	264				
6.0	600	7560	235				
7.0	600	7560	201				
7.7	600	7560	181				
8.8	600	7560	159				

TR..78 n_1=1400 r/min 820Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY63 AM/MY71	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML MY160M
3Stage										
7.2	820	9920	195.24*							
8.4	820	9920	166.59							
9.6	820	9920	145.67							
10	820	9920	138.39							
12	820	9920	121.42							
14	820	9920	102.99							
15	820	9920	92.97							
17	820	9920	81.80							
18	820	9920	77.24							
21	820	9920	65.77							
24	820	9920	57.68							
27	820	9920	52.07							
31	820	9920	45.81							
32	820	9920	43.26							
38	820	9920	36.83							
42	820	9920	33.47							
48	820	9920	29.00							
55	780	10100	25.23							
2Stage										
60	820	8870	23.37							
65	820	8250	21.43							
74	780	7980	18.80							
79	780	7620	17.82*							
90	740	7390	15.60							
100	720	7050	14.05							
114	690	6740	12.33							
129	660	6490	10.88							
145	630	6300	9.64							
163	630	4110	8.59							
181	610	3940	7.74							
206	580	3850	6.79							
234	540	3990	5.99*							
264	510	3990	5.31*							

TR..78/TRF38 n_1=1400 r/min

820Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
3Stage / 3Stage							
0.09	820	9920	16370				
0.09	820	9920	15015				
0.10	820	9920	13885				
0.11	820	9920	12783				
0.13	820	9920	11021				
0.14	820	9920	9788				
0.16	820	9920	8714				
0.18	820	9920	7617				
0.21	820	9920	6770				
0.24	820	9920	5838				
0.27	820	9920	5184				
0.31	820	9920	4470				
0.35	820	9920	3999				
0.40	820	9920	3488				
0.46	820	9920	3053				
0.52	820	9920	2671				
2Stage / 3Stage							
0.44	820	9920	3151				
0.48	820	9920	2890				
0.57	820	9920	2460				
0.66	820	9920	2121				
0.71	820	9920	1977				
0.81	820	9920	1728				
0.86	820	9920	1620				
0.98	820	9920	1430				
1.1	820	9920	1303				
1.2	820	9920	1124				
1.3	820	9920	1047				
1.5	820	9920	915				
1.6	820	9920	858				
1.8	820	9920	757				
2.1	820	9920	671				
2.5	820	9920	571				
3Stage / 2Stage							
0.60	820	9920	2345				
0.68	820	9920	2070				
0.77	820	9920	1822				
0.89	820	9920	1580				
1.0	820	9920	1394				
1.1	820	9920	1218				
1.3	820	9920	1084				
1.5	820	9920	940				
1.7	820	9920	821				
1.9	820	9920	731				
2.2	820	9920	646				
2.5	820	9920	560				
2.9	820	9920	488				
3.2	820	9920	436				
3.8	820	9920	373				
4.3	820	9920	327				
4.8	820	9920	289				
5.4	820	9920	260				
6.2	820	9920	224				
7.1	820	9920	197				
8.3	820	9920	169				

TR..78/TRF38 n_1=1400 r/min 820Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100
3Stage / 2Stage							
9.4	820	9920	149				
2Stage / 2Stage							
2.7	820	9920	520				
3.1	820	9920	451				
3.3	820	9920	422				
3.8	820	9920	365				
4.5	820	9920	310				
5.1	820	9920	276				
5.9	820	9920	236				
6.3	820	9920	221				
7.5	820	9920	186				

TR..88 n_1=1400 r/min 1550Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M	AM180 MY180
3Stage										
5.7	1550	16900	246.54							
6.5	1550	16900	216.54							
6.8	1550	16900	205.71							
7.7	1550	16900	181.77							
9.0	1550	16900	155.34							
9.8	1550	16900	142.41							
11	1550	16900	124.97							
12	1550	16900	118.43*							
14	1550	16900	103.65							
15	1550	16900	93.38							
17	1550	16900	81.92							
19	1550	16900	72.57							
22	1550	15800	63.68*							
23	1550	15200	60.35							
27	1550	13500	52.82							
29	1550	16900	47.58							
34	1550	16900	41.74							
38	1550	16800	36.84*							
43	1550	16000	32.66*							
50	1500	15100	27.88							
2Stage										
41	1500	9480	34.4*							
45	1550	7820	31.40							
50	1550	15000	27.84*							
60	1550	13900	23.40							
65	1500	13600	21.51							
73	1440	13000	19.10							
82	1390	12600	17.08*							
91	1340	12100	15.35							
105	1280	11600	13.33							
117	1230	11200	11.93							
141	1180	10400	9.90*							
153	1210	10500	9.14*							
170	1160	10200	8.22							
196	1070	9780	7.13							
219	1020	9450	6.39							
264	910	8980	5.30*							

TR..88/TRF58 n_1=1400 r/min — 1550Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M
3Stage / 3Stage									
0.08	1550	16900	17452						
0.09	1550	16900	15310						
0.10	1550	16900	13813						
0.12	1550	16900	12025						
0.13	1550	16900	10549						
0.15	1550	16900	9244						
0.17	1550	16900	8109						
0.20	1550	16900	7038						
0.23	1550	16900	6174						
0.26	1550	16900	5449						
0.29	1550	16900	4831						
0.33	1550	16900	4206						
0.37	1550	16900	3744						
0.43	1550	16900	3233						
0.49	1550	16900	2873						
0.56	1550	16900	2518						
0.63	1550	16900	2209						
0.71	1550	16900	1961						
1.4	1550	16900	994						
1.6	1550	16900	881						
2Stage / 3Stage									
0.35	1550	16900	4020						
0.38	1550	16900	3703						
0.44	1550	16900	3182						
0.51	1550	16900	2770						
0.54	1550	16900	2595						
0.66	1550	16900	2129						
0.73	1550	16900	1930						
0.81	1550	16900	1733						
0.94	1550	16900	1489						
1.0	1550	16900	1395						
1.1	1550	16900	1232						
1.2	1550	16900	1145						
1.4	1550	16900	1037						
1.5	1550	16900	931						
1.7	1550	16900	802						
1.9	1550	16900	754						
2.2	1550	16900	649						
2.4	1550	16900	580						
3Stage / 2Stage									
0.81	1550	16900	1737						
0.92	1550	16900	1524						
1.1	1550	16900	1303						
1.2	1550	16900	1143						
1.4	1550	16900	1008						
1.6	1550	16900	885						
1.8	1550	16900	776						
2.0	1550	16900	685						
2.3	1550	16900	599						
2.7	1550	16900	525						
3.1	1550	16900	456						
3.5	1550	16900	398						
4.0	1550	16900	352						
4.6	1550	16900	305						
5.2	1550	16900	268						

TR..88/TRF58 n_1=1400 r/min 1550Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M
3Stage / 2Stage									
5.9	1550	16900	236						
6.7	1550	16900	209						
2Stage / 2Stage									
2.6	1550	16900	538						
3.0	1550	16900	472						
3.5	1550	16900	400						
3.9	1550	16900	361						
4.7	1550	16900	300						
5.5	1550	16900	256						
6.0	1550	16900	232						
7.2	1550	16900	195						

TR..98 n_1=1400 r/min 3000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY80	MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M	AM180 MY180	AM200 MY200
3Stage											
4.8	3000	19800	289.74								
5.5	3000	19800	255.71								
5.8	3000	19800	241.25								
6.5	3000	19800	216.28								
7.5	3000	19800	186.3								
8.2	3000	19800	170.02								
9.3	3000	19800	150.78								
11	3000	19800	126.75								
12	3000	19800	116.48								
14	3000	19800	103.44								
15	3000	19800	92.48								
17	3000	19800	83.15								
19	3000	18000	72.17								
21	3000	19800	65.21								
23	3000	19800	59.92								
26	3000	19800	53.21								
29	3000	19800	47.58								
33	3000	19800	42.78								
38	3000	18600	37.13								
42	2890	17900	33.25								
51	2670	16900	27.58								
2Stage											
44	2560	10600	32.05								
51	2560	8380	27.19								
56	2830	15900	25.03								
63	2720	15300	22.37								
70	2610	14800	20.14								
77	2500	14400	18.24								
87	2400	13800	16.17								
96	2300	13400	14.62								
113	2190	12700	12.39								
129	2090	12100	10.83								
151	2030	12200	9.29								
167	2030	11700	8.39								
197	2000	10900	7.12								

TR..98 n_1=1400 r/min 3000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM80 MY80	AM90 MY90	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M	AM180 MY180	AM200 MY200
2Stage											
225	1890	10500	6.21								
269	1780	9850	5.20								
311	1630	9500	4.50*								

TR..98/TRF58 n_1=1400 r/min 3000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M
3Stage / 3Stage									
0.06	3000	19800	21769						
0.07	3000	19800	19332						
0.08	3000	19800	17230						
0.09	3000	19800	14999						
0.11	3000	19800	13320						
0.13	3000	19800	11156						
0.14	3000	19800	10030						
0.16	3000	19800	8706						
0.18	3000	19800	7692						
0.21	3000	19800	6708						
0.24	3000	19800	5931						
0.27	3000	19800	5161						
0.31	3000	19800	4559						
0.35	3000	19800	4004						
0.40	3000	19800	3481						
2Stage / 3Stage									
0.30	3000	19800	4678						
0.32	3000	19800	4309						
0.38	3000	19800	3702						
0.46	3000	19800	3019						
0.52	3000	19800	2668						
0.62	3000	19800	2245						
0.69	3000	19800	2016						
0.81	3000	19800	1733						
0.86	3000	19800	1623						
0.98	3000	19800	1434						
1.2	3000	19800	1207						
1.3	3000	19800	1084						
1.5	3000	19800	934						
1.6	3000	19800	878						
1.9	3000	19800	755						
3Stage / 2Stage									
0.46	3000	19800	3065						
0.51	3000	19800	2722						
0.61	3000	19800	2311						
0.67	3000	19800	2078						
0.77	3000	19800	1823						
0.88	3000	19800	1583						
1.0	3000	19800	1396						
1.1	3000	19800	1228						
1.3	3000	19800	1069						
1.5	3000	19800	938						
1.7	3000	19800	824						
1.9	3000	19800	737						

TR..98/TRF58 n_1=1400 r/min 3000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M
3Stage / 2Stage									
2.2	3000	19800	632						
2.5	3000	19800	560						
2.9	3000	19800	484						
3.2	3000	19800	431						
3.7	3000	19800	379						
4.2	3000	19800	336						
4.7	3000	19800	296						
5.6	3000	19800	249						
6.0	3000	19800	234						
6.7	3000	19800	209						
2Stage / 2Stage									
2.2	3000	19800	625						
2.6	3000	19800	549						
3.0	3000	19800	466						
3.3	3000	19800	420						
3.8	3000	19800	370						
4.0	3000	19800	349						
4.7	3000	19800	297						
5.2	3000	19800	270						
6.2	3000	19800	227						

TR..108 n_1=1400 r/min 4300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M
3Stage									
5.6	4300	29500	251.15						
6.1	4300	29500	229.95						
6.9	4300	29500	203.16						
8.1	4300	29500	172.34						
8.8	4300	29500	158.68						
9.9	4300	29500	141.83						
11	4300	29500	127.68						
12	4300	29500	115.63						
14	4300	29500	102.53						
15	4300	29500	92.70						
18	4300	29500	78.57						
19	4300	29500	72.88						
21	4300	29200	65.60*						
24	4300	28000	59.41						
27	4300	26600	52.68						
29	4300	25500	47.63						
35	4300	23800	40.37*						
40	4300	22400	35.26						
47	4300	20700	29.49						
2Stage									
45	4300	21100	30.77						
51	4300	20100	27.58						
56	4300	19200	24.90*						
62	4300	18300	22.62						
70	4300	17300	20.07						
77	4300	16600	18.21						

TR..108 n_1=1400 r/min — 4300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM100 MY100	AM112 MY112	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M
2Stage									
89	4300	15400	15.65						
102	4300	14400	13.66						
121	4300	13300	11.59						
138	4300	12400	10.13						
164	4300	11300	8.56						
178	2970	13800	7.86						
210	2970	12800	6.66						
241	2970	12100	5.82						
285	2900	11300	4.92						

TR..108/TRF78 n_1=1400 r/min — 4300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M
3Stage / 3Stage										
0.07	4300	29500	20018							
0.08	4300	29500	17080							
0.09	4300	29500	14936							
0.11	4300	29500	12829							
0.12	4300	29500	11256							
0.15	4300	29500	9547							
0.16	4300	29500	8618							
0.18	4300	29500	7583							
0.21	4300	29500	6743							
0.24	4300	29500	5914							
0.27	4300	29500	5168							
0.32	4300	29500	4435							
0.36	4300	29500	3896							
0.41	4300	29500	3432							
0.46	4300	29500	3039							
0.52	4300	29500	2688							
0.60	4300	29500	2339							
2Stage / 3Stage										
0.36	4300	29500	3918							
0.42	4300	29500	3343							
0.46	4300	29500	3034							
0.53	4300	29500	2653							
0.61	4300	29500	2280							
0.68	4300	29500	2067							
0.83	4300	29500	1693							
0.90	4300	29500	1550							
1.0	4300	29500	1407							
1.2	4300	29500	1209							
1.3	4300	29500	1055							
1.5	4300	29500	919							
1.7	4300	29500	815							
2.0	4300	29500	717							
2.2	4300	29500	626							
2.7	4300	29500	528							
3Stage / 2Stage										
0.70	4300	29500	1987							
0.77	4300	29500	1827							
0.88	4300	29500	1599							

TR..108/TRF78 n_1=1400 r/min 4300Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M
3Stage / 2Stage										
1.0	4300	29500	1400							
1.1	4300	29500	1226							
1.3	4300	29500	1104							
1.5	4300	29500	939							
1.7	4300	29500	822							
2.3	4300	29500	614							
2.6	4300	29500	544							
2.8	4300	29500	492							
3.4	4300	29500	417							
3.8	4300	29500	369							
4.3	4300	29500	323							
4.9	4300	29500	285							
5.5	4300	29500	253							
6.5	4300	29500	214							
7.5	4300	29500	187							
2Stage / 2Stage										
3.0	4300	29500	469							
3.3	4300	29500	426							
3.7	4300	29500	377							
4.3	4300	29500	325							
4.9	4300	29500	284							
5.5	4300	29500	256							
6.4	4300	29500	220							
7.3	4300	29500	193							
8.1	4300	29500	172							

TR..138 n_1=1400 r/min 8000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M	MY250M MY280S MY280
3Stage								
6.3	8000	53400	222.60					
7.4	8000	53400	188.45					
8.0	8000	53400	174.40*					
9.0	8000	53400	156.31					
9.9	8000	53400	141.12*					
11	8000	53400	128.18					
12	8000	53400	113.72					
14	8000	53400	103.20*					
16	8000	53400	88.70*					
17	8000	53400	80.91*					
19	8000	53400	73.49					
21	8000	53400	65.20					
24	8000	53400	59.17*					
28	8000	53400	50.86*					
32	8000	53400	44.39					
37	8000	53400	37.65					
43	8000	53400	32.91					
50	7680	54100	27.83					

TR..138 n_1=1400 r/min 8000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY132S AM/MY132M	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M	MY250M MY280S MY280
2Stage								
47	7780	53900	29.57*					
58	8000	49400	24.12					
64	8000	47100	22.00*					
74	8000	43500	19.04*					
83	8000	40600	16.80*					
96	8000	37300	14.51					
109	8000	34700	12.83					
130	8000	31100	10.79					
161	7840	27600	8.71					
184	5110	39000	7.59					
219	5110	35900	6.38					
272	4600	34500	5.15					

TR..138/TRF78 n_1=1400 r/min 8000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M
3Stage / 3Stage										
0.06	8000	53400	22203							
0.07	8000	53400	18945							
0.08	8000	53400	16566							
0.09	8000	53400	14777							
0.11	8000	53400	12921							
0.12	8000	53400	11712							
0.13	8000	53400	10573							
0.16	8000	53400	8784							
0.19	8000	53400	7479							
0.21	8000	53400	6559							
0.24	8000	53400	5834							
0.27	8000	53400	5116							
0.31	8000	53400	4464							
0.36	8000	53400	3928							
0.41	8000	53400	3454							
0.47	8000	53400	2993							
2Stage / 3Stage										
0.30	8000	53400	4709							
0.35	8000	53400	4018							
0.40	8000	53400	3514							
0.42	8000	53400	3338							
0.48	8000	53400	2929							
0.56	8000	53400	2484							
0.62	8000	53400	2242							
0.75	8000	53400	1863							
0.88	8000	53400	1586							
1.0	8000	53400	1391							
1.1	8000	53400	1256							
1.3	8000	53400	1105							
1.3	8000	53400	1043							
1.6	8000	53400	888							
2.0	8000	53400	699							
2.3	8000	53400	609							

TR..138/TRF78 n_1=1400 r/min — 8000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M
3Stage / 2Stage										
0.53	8000	53400	2658							
0.58	8000	53400	2412							
0.68	8000	53400	2073							
0.76	8000	53400	1839							
0.88	8000	53400	1598							
1.0	8000	53400	1397							
1.1	8000	53400	1226							
1.3	8000	53400	1090							
1.5	8000	53400	951							
1.7	8000	53400	831							
1.9	8000	53400	730							
2.2	8000	53400	629							
2.5	8000	53400	560							
2.9	8000	53400	490							
3.3	8000	53400	428							
3.7	8000	53400	381							
4.3	8000	53400	323							
4.8	8000	53400	291							
5.5	8000	53400	255							
6.3	8000	53400	223							
7.1	8000	53400	197							
8.0	8000	53400	175							
2Stage / 2Stage										
2.5	8000	53400	564							
2.7	8000	53400	517							
3.1	8000	53400	453							
3.7	8000	53400	376							
4.1	8000	53400	339							
4.7	8000	53400	297							

TR..148 n_1=1400 r/min — 13000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M	AM/MY250M AM/MY280	MY315M MY315S
3Stage								
8.6	13000	62700	163.31					
9.5	13000	62700	146.91					
12	13000	62700	119.86					
13	13000	62700	109.31					
15	13000	62700	94.60*					
17	13000	62700	83.47					
19	13000	62700	72.09					
21	13000	62700	66.99					
23	13000	62700	61.09					
26	13000	62700	52.87					
30	13000	62700	46.65					
35	13000	62700	40.29					
39	13000	62700	35.64					
47	13000	62700	29.95					
58	11900	64700	24.19					

TR..148 n_1=1400 r/min 13000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M	AM/MY250M AM/MY280	MY315M MY315S
2 Stage								
68	12000	64600	20.44					
78	10500	67000	18.04					
90	13000	62700	15.64					
101	12600	63400	13.91					
117	13000	60400	11.99					
144	13000	54400	9.74					
169	13000	49900	8.26					
193	8670	58400	7.25					
238	8670	53200	5.89					
280	8670	49300	5.00					

TR..148/TRF78 n_1=1400 r/min 13000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY63 MY71	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M
3Stage / 3Stage										
0.06	13000	62700	23401							
0.07	13000	62700	21342							
0.08	13000	62700	18210							
0.09	13000	62700	15923							
0.10	13000	62700	14075							
0.11	13000	62700	12344							
0.13	13000	62700	11143							
0.14	13000	62700	9743							
0.17	13000	62700	8443							
0.19	13000	62700	7307							
0.22	13000	62700	6447							
0.25	13000	62700	5568							
0.28	13000	62700	4926							
0.32	13000	62700	4325							
0.37	13000	62700	3754							
0.42	13000	62700	3302							
0.48	13000	62700	2898							
3Stage / 2Stage										
0.55	13000	62700	2555							
0.63	13000	62700	2211							
0.72	13000	62700	1951							
0.82	13000	62700	1705							
0.91	13000	62700	1536							
1.1	13000	62700	1329							
1.2	13000	62700	1166							
1.4	13000	62700	1029							
1.6	13000	62700	889							
1.8	13000	62700	784							
2.0	13000	62700	695							
2.3	13000	62700	619							
2.5	13000	62700	558							
2.9	13000	62700	489							
3.4	13000	62700	415							

TR..148/TRF88 n_1=1400 r/min 13000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY90	AM100	AM112	MY132S MY132M	MY132ML MY160M	MY180
3Stage / 2Stage									
2.6	13000	62700	533						
3.0	13000	62700	462						
3.3	13000	62700	426						
3.8	13000	62700	368						
4.3	13000	62700	326						
5.0	13000	62700	280						
5.7	13000	62700	247						
6.5	13000	62700	214						
7.4	13000	62700	189						
8.8	13000	62700	159						

TR..168 n_1=1400 r/min 18000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	AM/MY132ML AM/MY160M AM/MY160L	AM180 MY180	AM/MY200 AM/MY225S AM/MY225M	AM/MY250M AM/MY280	MY315M MY315S	MY315M_A MY315M_B
3 Stage									
6.1	18000	120000	229.71						
7.5	18000	120000	186.93*						
9.1	18000	120000	153.07						
10	18000	120000	139.98						
11	18000	120000	121.81*						
13	18000	120000	107.49						
15	18000	120000	93.19						
17	18000	120000	82.91*						
19	18000	120000	73.70*						
21	18000	120000	67.40						
24	18000	120000	58.65						
27	18000	120000	51.76						
31	18000	120000	44.87						
35	18000	120000	39.92						
41	18000	120000	34.41						
50	18000	120000	27.96						
59	18000	116500	23.71						
2 Stage									
30	7000	120000	46.00						
37	9000	120000	37.74						
46	10000	120000	30.71						
57	14000	120000	24.57						
64	13000	120000	21.85						
74	16000	111400	19.03						
82	15000	108900	16.98						
97	18000	93800	14.48						
117	17000	88700	11.99						
137	17000	82500	10.24						

TR..168/TRF98 n_1=1400 r/min — 18000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY80	MY90	MY100	MY112	MY132S MY132M	MY132ML MY160M	MY180	MY200
3Stage / 3Stage											
0.05	18000	120000	27001								
0.06	18000	120000	22482								
0.07	18000	120000	20002								
0.08	18000	120000	17361								
0.09	18000	120000	15446								
0.10	18000	120000	14051								
0.12	18000	120000	11812								
0.13	18000	120000	10509								
0.15	18000	120000	9631								
0.18	18000	120000	7749								
0.20	18000	120000	6894								
0.23	18000	120000	6077								
0.26	18000	120000	5407								
0.30	18000	120000	4650								
0.34	18000	120000	4129								
0.38	18000	120000	3692								
0.45	18000	120000	3099								
3Stage / 2Stage											
0.53	18000	120000	2657								
0.60	18000	120000	2333								
0.67	18000	120000	2085								
0.75	18000	120000	1877								
0.84	18000	120000	1670								
1.0	18000	120000	1438								
1.1	18000	120000	1279								
1.2	18000	120000	1123								
1.4	18000	120000	999								
1.6	18000	120000	861								
1.8	18000	120000	760								
2.1	18000	120000	656								
2.4	18000	120000	579								
2.8	18000	120000	503								
3.2	18000	120000	432								
3.7	18000	120000	376								
4.2	18000	120000	335								
4.6	18000	120000	303								
5.0	18000	120000	279								

TR..168/TRF108 n_1=1400 r/min 18000Nm

n_2 [r/min]	M_2 max [Nm]	Fr_2 [N]	i	MY100	MY112	MY132S MY132M	MY132ML MY160M	MY180	MY200 MY225S MY225M
3Stage / 3Stage									
0.38	18000	120000	3637						
0.42	18000	120000	3330						
0.51	18000	120000	2757						
0.57	18000	120000	2436						
0.61	18000	120000	2298						
0.68	18000	120000	2066						
0.76	18000	120000	1849						
0.84	18000	120000	1674						
0.94	18000	120000	1485						
1.0	18000	120000	1342						
1.1	18000	120000	1229						
1.3	18000	120000	1111						
1.5	18000	120000	950						
1.6	18000	120000	860						
1.8	18000	120000	763						
2.0	18000	120000	690						
2.4	18000	120000	585						
2.7	18000	120000	511						
3Stage / 2Stage									
4.0	18000	120000	349						
4.7	18000	120000	295						
5.2	18000	120000	270						
6.1	18000	120000	229						
7.0	18000	120000	200						
8.3	18000	120000	169						
2Stage / 2Stage									
3.1	18000	120000	446						
3.5	18000	120000	399						
3.9	18000	120000	361						
4.3	18000	120000	328						
4.8	18000	120000	291						
5.3	18000	120000	264						
6.2	18000	120000	227						
7.1	18000	120000	198						
8.3	18000	120000	168						

6.2 TR..MY.. Performance parameter

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.12	0.06	13300	21342	62000	1.00	**TR 148 / TRF78 MY 63S4**	166
	0.08	11400	18210	65700	1.15	**TRF 148 / TRF78 MY 63S4**	166
	0.09	9930	15923	67900	1.30		
	0.10	8780	14075	69400	1.50		
	0.11	7650	12344	70700	1.70		
	0.12	6740	11143	71600	1.95		
	0.14	6040	9743	72200	2.2		
	0.16	4830	8443	73100	2.7		
	0.19	4180	7307	73400	3.1		
	0.21	3690	6447	73700	3.5		
	0.25	3190	5568	73900	4.1		
	0.11	8060	12921	53300	1.00	**TR 138 / TRF78 MY 63S4**	166
	0.12	7260	11712	54900	1.10	**TRF 138 / TRF78 MY 63S4**	166
	0.13	6390	10573	56400	1.25		
	0.16	5030	8784	58400	1.60		
	0.18	4090	7479	59400	1.95		
	0.21	4060	6559	59400	1.95		
	0.24	3190	5834	60200	2.5		
	0.27	3170	5116	60200	2.5		
	0.18	4410	7583	28800	0.95	**TR 108 / TRF78 MY 63S4**	166
	0.20	3690	6743	32400	1.15	**TRF 108 / TRF78 MY 63S4**	166
	0.23	3660	5914	32500	1.15		
	0.27	2830	5168	35500	1.50		
	0.31	2540	4435	36100	1.70		
	0.35	2270	3896	36500	1.90		
	0.45	1880	3039	36900	2.3		
	0.35	2470	3918	36200	1.75	**TR 108 / TRF78 MY 63S4**	166
	0.41	2110	3343	36700	2.0	**TRF 108 / TRF78 MY 63S4**	166
	0.45	1910	3034	36900	2.3		
	0.52	1670	2653	37100	2.6		
	0.61	1440	2280	37300	3.0		
	0.67	1300	2067	37400	3.3		
	0.30	3050	4559	17700	1.00	**TR 98 / TRF58 MY 63S4**	166
	0.34	2570	4004	23700	1.15	**TRF 98 / TRF58 MY 63S4**	166
	0.40	2270	3481	25200	1.30		
	0.29	3240	4678	18400	0.95	**TR 98 / TRF58 MY 63S4**	166
	0.32	2980	4309	20400	1.00	**TRF 98 / TRF58 MY 63S4**	166
	0.37	2560	3702	23700	1.15		
	0.46	2080	3019	26100	1.45		
	0.52	1810	2668	27100	1.65		
	0.61	1480	2245	27700	2.0		
	0.68	1310	2016	27900	2.3		
	0.80	1200	1733	28000	2.5		
	0.45	2120	3065	25900	1.40	**TR 98 / TRF58 MY 63S4**	166
	0.51	1880	2722	26800	1.60	**TRF 98 / TRF58 MY 63S4**	166
	0.60	1590	2311	27500	1.90		
	0.66	1430	2078	27700	2.1		
	0.76	1240	1823	28000	2.4		
	0.87	1070	1583	28200	2.8		
	0.99	910	1396	28300	3.3		
	1.10	775	1228	28400	3.9		
	0.48	1770	2873	15200	0.90	**TR 88 / TRF58 MY 63S4**	166
	0.70	1300	1961	18500	1.20	**TRF 88 / TRF58 MY 63S4**	166
	0.53	1790	2595	15000	0.85	**TR 88 / TRF58 MY 63S4**	166
	0.65	1430	2129	17700	1.10	**TRF 88 / TRF58 MY 63S4**	166

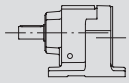
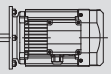
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.12	0.72	1270	1930	18600	1.20	**TR 88 / TRF58 MY 63S4**	166
	0.80	1120	1733	19300	1.40	**TRF 88 / TRF58 MY 63S4**	166
	0.79	1150	1737	19200	1.35	**TR 88 / TRF58 MY 63S4**	166
	0.91	1010	1524	19800	1.55	**TRF 88 / TRF58 MY 63S4**	166
	1.1	810	1303	20000	1.90		
	1.2	710	1143	20000	2.2		
	1.6	585	885	20000	2.7		
	1.8	515	776	20000	3.0		
	2.0	450	685	20000	3.4		
	2.3	360	599	20000	4.3		
	1.1	940	1303	8660	0.85	**TR 78 / TRF38 MY 63S4**	166
	1.2	800	1124	10100	1.05	**TRF 78 / TRF38 MY 63S4**	166
	1.3	740	1047	10600	1.10		
	1.5	640	915	11300	1.30		
	1.1	820	1218	9910	1.00	**TR 78 / TRF38 MY 63S4**	166
	1.3	740	1084	10600	1.10	**TRF 78 / TRF38 MY 63S4**	166
	1.5	665	940	11200	1.25		
	1.7	525	821	12000	1.55		
	1.9	480	731	12200	1.70		
	2.1	460	646	12300	1.80		
	2.6	380	520	12600	2.2	**TR 78 / TRF38 MY 63S4**	166
	3.1	325	451	12700	2.5	**TRF 78 / TRF38 MY 63S4**	166
	3.3	300	422	12800	2.7		
	3.8	255	365	12900	3.2		
	1.6	630	891	7190	0.95	**TR 68 / TRF38 MY 63S4**	166
	1.9	505	730	8530	1.20	**TRF 68 / TRF38 MY 63S4**	166
	2.1	440	644	9060	1.35		
	2.4	385	571	9430	1.55		
	2.8	320	486	9790	1.85		
	1.7	590	836	7670	1.00	**TR 68 / TRF38 MY 63S4**	166
	1.8	495	750	8630	1.20	**TRF 68 / TRF38 MY 63S4**	166
	2.1	440	646	9050	1.35		
	2.4	400	574	9330	1.50		
	2.8	345	495	9660	1.75		
	3.1	285	438	9940	2.1		
	1.8	550	782	4650	0.80	**TR 58 / TRF38 MY 63S4**	166
	2.0	455	678	7070	1.00	**TRF 58 / TRF38 MY 63S4**	166
	2.3	415	604	7260	1.10		
	2.6	375	537	7400	1.20		
	2.9	330	471	7550	1.35		
	3.9	245	357	7770	1.85		
	4.3	215	319	7830	2.10		
	3.8	260	359	7730	1.75	**TR 58 / TRF38 MY 63S4**	166
	4.3	235	324	7790	1.95	**TRF 58 / TRF38 MY 63S4**	166
	4.8	205	290	7840	2.2		
	5.3	185	262	7880	2.4		
	5.6	171	246	7900	2.6		
	6.3	150	220	7930	3.0		
	2.7	345	510	4360	0.85	**TR 48 / TRF38 MY 63S4**	166
	3.2	285	436	5490	1.05	**TRF 48 / TRF38 MY 63S4**	166
	3.4	265	408	5590	1.10		
	4.0	220	344	5790	1.35		
	2.8	365	502	3020	0.80	**TR 48 / TRF38 MY 63S4**	166
	3.2	315	429	5350	0.95	**TRF 48 / TRF38 MY 63S4**	166
	3.7	270	372	5580	1.10		
	4.0	250	348	5670	1.20		
	4.6	210	301	5810	1.40		
	5.4	177	255	5930	1.70		
	6.0	156	228	5980	1.95		
	7.1	130	195	6040	2.3		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
0.12	4.1	225	338	4570	0.90	**TR**	**38 / TRF18**	**MY**	**63S4**	166
	4.7	210	296	4790	0.95	**TR F**	**38 / TRF18**	**MY**	**63S4**	166
	5.3	184	259	5130	1.10					
	6.0	163	228	5360	1.25					
	6.9	140	199	5550	1.40					
	8.0	123	172	5680	1.65					
	4.2	240	328	3730	0.85	**TR**	**38 / TRF18**	**MY**	**63S4**	166
	4.8	205	289	4880	1.00	**TR F**	**38 / TRF18**	**MY**	**63S4**	166
	5.2	192	265	5040	1.05					
	6.1	156	226	5410	1.30					
	6.8	144	202	5530	1.40					
	7.7	125	179	5660	1.60					
	6.0	158	229	4090	0.80	**TR**	**28 / TRF18**	**MY**	**63S4**	166
	6.9	138	200	4200	0.95	**TR F**	**28 / TRF18**	**MY**	**63S4**	166
	7.8	121	177	4270	1.05					
	8.3	116	166	4290	1.10					
	6.1	157	227	4100	0.85	**TR**	**28 / TRF18**	**MY**	**63S4**	166
	6.8	144	203	4170	0.90	**TR F**	**28 / TRF18**	**MY**	**63S4**	166
	7.7	125	179	4260	1.05					
	8.8	106	156	4330	1.25					
	4.6	250	195.24*	12900	3.3	**TR**	**78**	**MY**	**63M6**	150
	5.4	210	166.59	13000	3.9	**TRF**	**78**	**MY**	**63M6**	151
	6.2	186	145.67	13000	4.4					
	4.5	255	199.81	10100	2.4	**TR**	**68**	**MY**	**63M6**	147
	4.9	235	184.07	10100	2.6	**TRF**	**68**	**MY**	**63M6**	148
	5.7	200	158.14	10300	3.0					
	6.5	175	137.67	10300	3.4					
	7.0	164	128.97	10400	3.7					
	7.9	145	113.94	10400	4.1					
	6.9	166	199.81	10300	3.6	**TR**	**68**	**MY**	**63S4**	147
	7.5	153	184.07	10400	3.9	**TRF**	**68**	**MY**	**63S4**	148
	4.8	240	186.89	7780	1.9	**TR**	**58**	**MY**	**63M6**	144
	5.2	220	172.17	7820	2.1	**TRF**	**58**	**MY**	**63M6**	145
	6.1	188	147.92	7870	2.4					
	7.0	164	128.77	7910	2.7					
	7.5	154	120.63	7920	2.9					
	8.4	136	106.58	7950	3.3					
	9.1	126	98.99	7960	3.6					
	7.4	155	186.89	7920	2.9	**TR**	**58**	**MY**	**63S4**	144
	8.0	143	172.17	7940	3.2	**TRF**	**58**	**MY**	**63S4**	145
	9.3	123	147.92	7960	3.7					
	11	107	128.77	7980	4.2					
	5.1	225	176.88	5760	1.35	**TR**	**48**	**MY**	**63M6**	141
	5.5	210	162.94	5830	1.45	**TRF**	**48**	**MY**	**63M6**	142
	6.4	178	139.99	5920	1.70					
	7.4	155	121.87	5980	1.95					
	7.8	147	176.88	6000	2.0	**TR**	**48**	**MY**	**63M6**	141
	8.5	135	162.94	6030	2.2	**TRF**	**48**	**MY**	**63M6**	142
	9.9	116	139.99	6070	2.6					
	11	101	121.87	6100	3.0					
	12	95	114.17	6110	3.2					
	14	84	100.86	6120	3.6					
	15	78	93.68	6130	3.9					
	6.7	172	134.82	5270	1.15	**TR**	**38**	**MY**	**63M6**	138
	7.3	157	123.66	5410	1.25	**TRF**	**38**	**MY**	**63M6**	139
	8.6	134	105.28	5600	1.50					
	9.9	116	90.77	5730	1.75					
	11	108	84.61	5770	1.85					
	12	94	73.96	5850	2.1					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.12	10	112	134.82	5750	1.80	**TR 38 MY 63M6**	138
	11	103	123.66	5800	1.95	**TRF 38 MY 63M6**	139
	13	87	105.28	5880	2.3		
	15	75	90.77	5930	2.7		
	16	70	84.61	5950	2.8		
	19	61	73.96	5980	3.3		
	7.3	158	123.91	4090	0.80	**TR 28 MY 63M6**	135
	8.5	134	105.49	4210	0.95	**TRF 28 MY 63M6**	136
	9.9	116	90.96	4300	1.10		
	11	108	84.78	4330	1.20		
	12	94	74.11	4370	1.40		
	10	112	135.09	4310	1.15	**TR 28 MY 63S4**	135
	11	103	123.91	4340	1.25	**TRF 28 MY 63S4**	136
	13	88	105.49	4390	1.50		
	15	76	90.96	4430	1.70		
	16	70	84.78	4440	1.85		
	19	62	74.11	4460	2.1		
	20	58	69.47	4470	2.3		
	23	51	61.30	4400	2.6		
	25	46	55.87	4280	2.8		
	29	40	48.17	4090	3.3		
	31	37	44.90	4000	3.5		
	11	104	81.64	300	0.80	**TR 18 MY 63M4**	132
	13	90	70.39	1470	0.95	**TRF 18 MY 63M4**	133
	14	84	65.61	1860	1.00		
	16	73	57.35	2430	1.15		
	17	68	53.76	2500	1.25		
	19	60	47.44	2500	1.40		
	17	68	81.64	2500	1.25	**TR 18 MY 63S4**	132
	20	58	70.39	2500	1.45	**TRF 18 MY 63S4**	133
	21	55	65.61	2500	1.55		
	24	48	57.35	2500	1.80		
	26	45	53.76	2500	1.90		
	29	39	47.44	2500	2.2		
	31	37	44.18	2500	2.3		
	36	32	38.61	2430	2.7		
	38	30	36.20	2390	2.8		
	43	27	31.94	2310	3.2		
	49	24	28.32	2230	3.6		
	57	20	24.07	2130	4.3		
	227	5.0	6.07	4270	8.6	**TRX 68 MY 63S4**	122
	267	4.3	5.18	4050	17	**TRXF 68 MY 63S4**	123
	305	3.8	4.53	3870	22		
	321	3.6	4.30*	3810	22		
	251	4.6	5.50*	3360	8.5	**TRX 58 MY 63S4**	120
	272	4.2	5.07	3270	8.6	**TRXF 58 MY 63S4**	121
	317	3.6	4.35	3120	19		
	364	3.1	3.79	2980	22		
	389	2.9	3.55*	2910	24		
	440	2.6	3.14	2800	25		
	474	2.4	2.91	2730	28		
	523	2.2	2.64*	2640	31		
	582	2.0	2.37	2550	35		
	676	1.7	2.04	2430	41		
	719	1.6	1.92*	2380	43		
	835	1.4	1.65	2260	49		
0.18	0.09	15000	14075	50900	0.85	**TR 148 / TRF78 MY 63M4**	166
	0.11	13100	12344	62500	1.00	**TRF 148 / TRF78 MY 63M4**	166
	0.12	11600	11143	65200	1.10		
	0.14	10300	9743	67300	1.25		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.18	0.16	8550	8443	69700	1.50	**TR 148 / TRF78 MY 63M4**	166
	0.18	7400	7307	70900	1.75	**TRF 148 / TRF78 MY 63M4**	166
	0.20	6530	6447	71800	2.0		
	0.24	5640	5568	72500	2.3		
	0.27	5150	4926	72800	2.5		
	0.31	4420	4325	73300	2.9		
	0.35	3920	3754	73600	3.3		
	0.40	3380	3302	73800	3.9		
	0.15	8900	8784	50100	0.90	**TR 138 / TRF78 MY 63M4**	166
	0.18	7390	7479	54600	1.10	**TRF 138 / TRF78 MY 63M4**	166
	0.20	6950	6559	55500	1.15		
	0.23	5770	5834	57400	1.40		
	0.26	5420	5116	57900	1.50		
	0.30	4520	4464	59000	1.75		
	0.34	3980	3928	59500	2.0		
	0.28	5060	4709	58300	1.60	**TR 138 / TRF78 MY 63M4**	166
	0.33	4320	4018	59200	1.85	**TRF 138 / TRF78 MY 63M4**	166
	0.38	3780	3514	59700	2.1		
	0.40	3590	3338	59900	2.2		
	0.45	3150	2929	60200	2.5		
	0.30	4490	4435	28400	0.95	**TR 108 / TRF78 MY 63M4**	166
	0.34	3980	3896	31100	1.10	**TRF 108 / TRF78 MY 63M4**	166
	0.43	3220	3039	34200	1.35		
	0.34	4210	3918	29900	1.00	**TR 108 / TRF78 MY 63M4**	166
	0.39	3590	3343	32800	1.20	**TRF 108 / TRF78 MY 63M4**	166
	0.44	3260	3034	34100	1.30		
	0.50	2850	2653	35400	1.50		
	0.58	2450	2280	36200	1.75		
	0.64	2220	2067	36500	1.95		
	0.66	2100	1987	36700	2.1	**TR 108 / TRF78 MY 63M4**	166
	0.72	1870	1827	36900	2.3	**TRF 108 / TRF78 MY 63M4**	166
	0.83	1600	1599	37200	2.7		
	0.94	1440	1400	37300	3.0		
	1.10	1230	1226	37400	3.5		
	0.49	3000	2668	20000	1.00	**TR 98 / TRF58 MY 63M4**	166
	0.59	2480	2245	24200	1.20	**TRF 98 / TRF58 MY 63M4**	166
	0.65	2210	2016	25500	1.35		
	0.76	1970	1733	26500	1.50		
	0.81	1840	1623	27000	1.65		
	0.92	1610	1434	27500	1.85		
	1.1	1330	1207	27900	2.3		
	1.2	1190	1084	28000	2.5		
	1.4	1000	934	28200	3.0		
	1.5	940	878	28300	3.2		
	1.8	790	755	28400	3.8		
	0.49	3090	2722	15900	0.95	**TR 98 / TRF58 MY 63M4**	166
	0.57	2620	2311	23400	1.15	**TRF 98 / TRF58 MY 63M4**	166
	0.64	2360	2078	24800	1.25		
	0.89	1690	1489	15900	0.90	**TR 88 / TRF58 MY 63M4**	166
	0.95	1580	1395	16700	1.00	**TRF 88 / TRF58 MY 63M4**	166
	1.1	1380	1232	18000	1.10		
	1.2	1280	1145	18600	1.20		
	1.3	1150	1037	19200	1.35		
	1.4	1020	931	19800	1.50		
	1.7	860	802	20000	1.80		
	0.87	1680	1524	15900	0.90	**TR 88 / TRF58 MY 63M4**	166
	1.0	1390	1303	17900	1.10	**TRF 88 / TRF58 MY 63M4**	166
	1.2	1220	1143	18900	1.25		
	1.5	980	885	19900	1.60		
	1.7	860	776	20000	1.80		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.18	1.5	980	858	5830	0.85	**TR 78 / TRF38 MY 63M4**	166
	1.7	850	757	9590	0.95	**TRF 78 / TRF38 MY 63M4**	166
	2.0	750	671	10500	1.10		
	2.3	630	571	11400	1.30		
	1.6	890	821	9230	0.90	**TR 78 / TRF38 MY 63M4**	166
	1.8	800	731	10100	1.00	**TRF 78 / TRF38 MY 63M4**	166
	2.0	745	646	10500	1.10		
	2.4	645	560	11300	1.25		
	2.7	550	488	11800	1.50		
	3.0	490	436	12100	1.70		
	3.5	420	373	12400	1.95		
	4.0	370	327	12600	2.2		
	4.6	330	289	12700	2.5		
	2.3	640	571	7060	0.95	**TR 68 / TRF38 MY 63M4**	166
	2.7	535	486	8250	1.10	**TRF 68 / TRF38 MY 63M4**	166
	2.3	655	574	5820	0.90	**TR 68 / TRF38 MY 63M4**	166
	2.7	565	495	7950	1.05	**TRF 68 / TRF38 MY 63M4**	166
	3.0	480	438	8740	1.25		
	3.4	425	388	9160	1.40		
	3.8	395	344	9380	1.55		
	4.5	320	294	9800	1.90		
	5.1	290	261	9920	2.1		
	2.9	500	454	6650	0.90	**TR 58 / TRF38 MY 63M4**	166
	3.2	455	410	7090	1.00	**TRF 58 / TRF38 MY 63M4**	166
	2.8	540	471	5250	0.85	**TR 58 / TRF38 MY 63M4**	166
	3.7	405	357	7300	1.10	**TRF 58 / TRF38 MY 63M4**	166
	4.1	355	319	7460	1.25		
	4.8	300	273	7630	1.50		
	5.5	260	241	7730	1.75		
	6.1	235	215	7790	1.95		
	3.7	420	359	7230	1.05	**TR 58 / TRF38 MY 63M4**	166
	4.1	380	324	7380	1.20	**TRF 58 / TRF38 MY 63M4**	166
	4.5	335	290	7530	1.35		
	5.0	305	262	7620	1.50		
	5.4	280	246	7680	1.60		
	6.0	250	220	7750	1.80		
	7.0	210	188	7830	2.1		
	8.3	177	159	7890	2.6		
	4.4	350	301	4150	0.85	**TR 48 / TRF38 MY 63M4**	166
	5.2	290	255	5460	1.05	**TRF 48 / TRF38 MY 63M4**	166
	5.8	260	228	5630	1.15		
	6.8	220	195	5790	1.40		
	6.6	230	199	4510	0.85	**TR 38 / TRF18 MY 63S4**	166
	7.7	199	172	4960	1.00	**TR F 38 / TRF18 MY 63S4**	166
	8.8	173	150	5260	1.15		
	6.5	235	202	4050	0.85	**TR 38 / TRF18 MY 63S4**	166
	7.4	205	179	4870	0.95	**TR F 38 / TRF18 MY 63S4**	166
	8.5	176	156	5230	1.15		
	9.4	157	141	4100	0.85	**TR 28 / TRF18 MY 63S4**	166
	11	139	124	4190	0.95	**TR F 28 / TRF18 MY 63S4**	166
	12	125	110	4260	1.05		
	14	105	94	4340	1.25		
	9.8	152	135	4120	0.85	**TR 28 / TRF18 MY 63S4**	166
	11	139	118	4190	0.95	**TR F 28 / TRF18 MY 63S4**	166
	13	121	104	4270	1.10		
	15	105	90	4340	1.25		
	4.5	385	195.24*	12500	2.1	**TR 78 MY 63L6**	150
	5.2	330	166.59	12700	2.5	**TRF 78 MY 63L6**	151
	6.0	290	145.67	12800	2.9		
	6.3	275	138.39	12900	3.0		
	7.2	240	121.42	12900	3.4		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page
0.18	6.8	255	195.24*	12900	3.2	**TR 78**	**MY 63M4**	150
	7.9	215	166.59	13000	3.8	**TRF 78**	**MY 63M4**	151
	9.1	190	145.67	13000	4.3			
	9.5	180	138.39	13000	4.6			
	4.4	395	199.81	9370	1.50	**TR 68**	**MY 63L6**	147
	4.7	365	184.07	9560	1.65	**TRF 68**	**MY 63L6**	148
	5.5	310	158.14	9830	1.90			
	6.3	270	137.67	10000	2.2			
	6.8	255	128.97	10100	2.4			
	7.6	225	113.94	10200	2.7			
	8.2	210	105.83	10200	2.9			
	9.1	190	95.91	10300	3.2			
	10	170	86.11	10300	3.5			
	12	147	74.17	10400	4.1			
	12	138	69.75	10400	4.4			
	6.6	260	199.81	10100	2.3	**TR 68**	**MY 63M4**	147
	7.2	240	184.07	10100	2.5	**TRF 68**	**MY 63M4**	148
	8.3	205	158.14	10200	2.9			
	9.6	179	137.67	10300	3.4			
	10	168	128.97	10300	3.6			
	12	148	113.94	10400	4.0			
	12	138	105.83	10400	4.4			
	4.7	370	186.89	7420	1.20	**TR 58**	**MY 63L6**	144
	5.0	340	172.17	7510	1.30	**TRF 58**	**MY 63L6**	145
	5.9	290	147.92	7650	1.55			
	6.8	255	128.77	7740	1.75			
	7.2	240	120.63	7780	1.90			
	7.1	245	186.89	7770	1.85	**TR 58**	**MY 63M4**	144
	7.7	225	172.17	7810	2.0	**TRF 58**	**MY 63M4**	145
	8.9	193	147.92	7870	2.3			
	10	168	128.77	7900	2.7			
	11	157	120.63	7920	2.9			
	12	139	106.58	7940	3.2			
	13	129	98.99	7950	3.5			
	15	117	89.71	7970	3.9			
	7.5	230	176.88	5740	1.30	**TR 48**	**MY 63M4**	141
	8.1	210	162.94	5810	1.40	**TRF 48**	**MY 63M4**	142
	9.4	182	139.99	5910	1.65			
	11	159	121.87	5980	1.90			
	12	149	114.17	6000	2.0			
	13	131	100.86	6040	2.3			
	14	122	93.68	6060	2.5			
	16	111	84.90	6080	2.7			
	17	99	76.23	6100	3.0			
	7.0	245	123.66	3060	0.80	**TR 38**	**MY 63L6**	138
	8.3	210	105.28	4840	0.95	**TRF 38**	**MY 63L6**	139
	9.6	179	90.77	5190	1.10			
	10	167	84.61	5310	1.20			
	9.8	176	134.82	5230	1.15	**TR 38**	**MY 63M4**	138
	11	161	123.66	5370	1.25	**TRF 38**	**MY 63M4**	139
	13	137	105.28	5580	1.45			
	15	118	90.77	5710	1.70			
	16	110	84.61	5760	1.80			
	18	96	73.96	5840	2.1			
	19	90	69.33	5870	2.2			
	22	80	61.18	5920	2.5			
	24	73	55.76	5940	2.8			
	27	63	48.08	5960	3.2			
	11	161	123.91	4070	0.80	**TR 28**	**MY 63M4**	135
	13	137	105.49	4200	0.95	**TRF 28**	**MY 63M4**	136

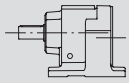
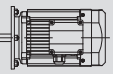
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.18	15	118	90.96	4280	1.10	**TR 28** **MY 63M4**	135
	16	110	84.78	4320	1.20	**TRF 28** **MY 63M4**	136
	18	97	74.11	4370	1.35		
	19	91	69.47	4380	1.45		
	22	80	61.30	4320	1.65		
	24	73	55.87	4210	1.80		
	27	63	48.17	4040	2.1		
	29	59	44.90	3960	2.2		
	34	51	39.25	3810	2.5		
	36	48	36.79	3740	2.7		
	41	42	32.47	3610	3.1		
	46	38	28.78	3480	3.5		
	54	32	24.47	3310	4.1		
	47	37	28.37	3470	3.5	**TR 28** **MY 63M4**	135
	51	34	26.09	3380	3.8	**TRF 28** **MY 63M4**	136
	59	29	22.32	3220	4.5		
	68	25	19.35	3090	5.2		
	73	24	18.08	3020	5.5		
	84	20	15.63	2890	6.4		
	99	17	13.28*	2750	7.5		
	16	106	81.64	46	0.80	**TR 18** **MY 63M4**	132
	19	92	70.39	1330	0.95	**TRF 18** **MY 63M4**	133
	20	85	65.61	1740	1.00		
	23	75	57.35	2350	1.15		
	25	70	53.76	2500	1.20		
	28	62	47.44	2450	1.40		
	30	58	44.18	2410	1.50		
	34	50	38.61	2340	1.70		
	36	47	36.20	2300	1.80		
	41	42	31.94	2240	2.0		
	47	37	28.32	2170	2.3		
	55	31	24.07	2080	2.7		
	52	33	25.23	2110	2.6		
	57	30	23.15	2060	2.8		
	67	26	19.71	1970	3.3		
	78	22	16.99	1890	3.9		
	143	12	6.07	4940	3.6	**TRX 68** **MY 63L6**	122
	168	10	5.18	4690	7.4	**TRXF 68** **MY 63L6**	123
	192	8.9	4.53	4490	9.2		
	202	8.5	4.30*	4410	9.4		
	218	7.9	6.07	4310	5.4		
	255	6.7	5.18	4090	11	**TRX 68** **MY 63M4**	122
	292	5.9	4.53	3920	14	**TRXF 68** **MY 63M4**	123
	307	5.6	4.30*	3850	14		
	350	4.9	3.77	3690	18		
	413	4.2	3.20*	3500	24		
	457	3.8	2.89	3380	28		
	519	3.3	2.54	3240	36		
	550	3.1	2.40*	3180	40		
	646	2.7	2.04	3020	50		
	158	11	5.50*	3880	3.6	**TRX 58** **MY 63L6**	120
	172	10	5.07	3780	3.6	**TRXF 58** **MY 63L6**	121
	200	8.6	4.35	3600	7.9		
	230	7.5	3.79	3440	9.2		
	240	7.2	5.50*	3400	5.4	**TRX 58** **MY 63M4**	120
	261	6.6	5.07	3310	5.5	**TRXF 58** **MY 63M4**	121
	303	5.7	4.35	3150	12		
	348	4.9	3.79	3010	14		
	372	4.6	3.55*	2950	15		
	421	4.1	3.14	2830	16		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.18	453	3.8	2.91	2760	18	**TRX 58 MY 63M4**	120
	500	3.4	2.64*	2670	20	**TRXF 58 MY 63M4**	121
	557	3.1	2.37	2580	22		
	647	2.7	2.04	2460	26		
	688	2.5	1.92*	2410	28		
	799	2.2	1.65	2290	31		
0.25	0.13	15200	9743	48200	0.85	**TR 148 / TRF78 MY 63L4**	166
	0.15	12800	8443	63100	1.00	**TRF 148 / TRF78 MY 63L4**	166
	0.18	11000	7307	66200	1.20		
	0.20	9740	6447	68100	1.35		
	0.23	8410	5568	69800	1.55		
	0.26	7600	4926	70700	1.70		
	0.30	6570	4325	71700	2.0		
	0.35	5790	3754	72400	2.3		
	0.39	5020	3302	72900	2.6		
	0.45	4380	2898	73300	3.0		
	0.22	8670	5834	51100	0.90	**TR 138 / TRF78 MY 63L4**	166
	0.25	7970	5116	53500	1.00	**TRF 138 / TRF78 MY 63L4**	166
	0.29	6740	4464	55800	1.20		
	0.33	5930	3928	57100	1.35		
	0.28	7430	4709	54600	1.10	**TR 138 / TRF78 MY 63L4**	166
	0.32	6340	4018	56500	1.25	**TRF 138 / TRF78 MY 63L4**	166
	0.37	5550	3514	57700	1.45		
	0.39	5270	3338	58100	1.50		
	0.44	4620	2929	58900	1.75		
	0.49	4190	2658	59300	1.90	**TR 138 / TRF78 MY 63L4**	166
	0.54	3800	2412	59700	2.1	**TRF 138 / TRF78 MY 63L4**	166
	0.63	3270	2073	60100	2.5		
	0.71	2810	1839	60500	2.8		
	0.93	2180	1397	60800	3.7		
	1.1	1890	1226	61000	4.2		
	0.43	4730	3039	25600	0.90	**TR 108 / TRF78 MY 63L4**	166
						TRF 108 / TRF78 MY 63L4	166
	0.43	4790	3034	23600	0.90	**TR 108 / TRF78 MY 63L4**	166
						TRF 108 / TRF78 MY 63L4	166
	0.65	3100	1987	34600	1.40	**TR 108 / TRF78 MY 63L4**	166
	0.71	2790	1827	35600	1.55	**TRF 108 / TRF78 MY 63L4**	166
	0.81	2410	1599	36300	1.80		
	0.93	2140	1400	36600	2.0		
	1.1	1840	1226	36900	2.3		
	1.4	1440	939	37300	3.0		
	1.6	1240	822	37400	3.5		
	0.75	2840	1733	22000	1.05	**TR 98 / TRF58 MY 63L4**	166
	0.80	2660	1623	23200	1.15	**TRF 98 / TRF58 MY 63L4**	166
	0.71	2960	1823	21100	1.00	**TR 98 / TRF58 MY 63L4**	166
	0.82	2570	1583	23700	1.15	**TRF 98 / TRF58 MY 63L4**	166
	0.93	2230	1396	25400	1.35		
	1.1	1940	1228	26600	1.55		
	1.2	1750	1069	27300	1.70		
	1.4	1530	938	27600	1.95		
	1.6	1300	824	27900	2.3		
	1.8	1160	737	28100	2.6		
	2.1	1000	632	28200	3.0		
	1.1	1850	1145	10700	0.85	**TR 88 / TRF58 MY 63L4**	166
	1.2	1670	1037	16000	0.95	**TRF 88 / TRF58 MY 63L4**	166
	1.4	1490	931	17400	1.05		
	1.6	1270	802	18600	1.20		
	1.1	1800	1143	14700	0.85	**TR 88 / TRF58 MY 63L4**	166
	1.5	1420	885	17800	1.10	**TRF 88 / TRF58 MY 63L4**	166
	1.7	1250	776	18700	1.25		
	1.9	1100	685	19400	1.40		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.25	2.2	930	599	20000	1.65	**TR 88 / TRF58 MY 63L4**	166
	2.5	820	525	20000	1.90	**TRF 88 / TRF58 MY 63L4**	166
	2.9	715	456	20000	2.2		
	4.9	415	268	20000	3.7		
	2.3	920	571	8910	0.90	**TR 78 / TRF38 MY 63L4**	166
						TRF 78 / TRF38 MY 63L4	166
	2.3	930	560	8780	0.90	**TR 78 / TRF38 MY 63L4**	166
	2.7	795	488	10100	1.05	**TRF 78 / TRF38 MY 63L4**	166
	3.0	705	436	10900	1.15		
	3.5	610	373	11500	1.35		
	4.0	535	327	11900	1.55		
	4.5	475	289	12200	1.75		
	5.0	425	260	12400	1.95		
	5.8	355	224	12600	2.3		
	3.4	620	388	7290	0.95	**TR 68 / TRF38 MY 63L4**	166
	3.8	565	344	7950	1.05	**TRF 68 / TRF38 MY 63L4**	166
	4.4	465	294	8870	1.30		
	5.0	425	261	9180	1.40		
	5.5	380	234	9460	1.60		
	6.5	320	200	9780	1.85		
	7.4	280	176	9980	2.2		
	8.2	250	158	10100	2.4		
	3.4	645	384	6960	0.95	**TR 68 / TRF38 MY 63L4**	166
	3.6	600	359	7550	1.00	**TRF 68 / TRF38 MY 63L4**	166
	4.2	515	310	8430	1.15		
	4.9	435	264	9100	1.40		
	5.5	385	235	9420	1.55		
	6.5	325	201	9750	1.85		
	7.2	295	181	9910	2.0		
	4.1	520	319	6050	0.85	**TR 58 / TRF38 MY 63L4**	166
	4.8	440	273	7160	1.05	**TRF 58 / TRF38 MY 63L4**	166
	5.4	380	241	7380	1.20		
	6.0	340	215	7510	1.30		
	7.0	300	187	7630	1.50		
	7.9	260	164	7730	1.75		
	9.2	225	142	7800	2.0		
	4.0	545	324	4980	0.85	**TR 58 / TRF38 MY 63L4**	166
	4.5	485	290	6950	0.95	**TRF 58 / TRF38 MY 63L4**	166
	5.0	435	262	7160	1.05		
	5.3	405	246	7280	1.10		
	5.9	360	220	7450	1.25		
	5.7	375	228	2440	0.80	**TR 48 / TRF38 MY 63L4**	166
	6.7	315	195	5320	0.95	**TRF 48 / TRF38 MY 63L4**	166
	7.1	295	182	5440	1.00		
	8.5	245	154	5680	1.20		
	8.7	250	150	2540	0.80	**TR 38 / TRF18 MY 63S4**	166
	10	210	130	4790	0.95	**TR F 38 / TRF18 MY 63S4**	166
	10	200	124	4930	1.00		
	12	178	110	5200	1.10		
	14	152	94	5460	1.30		
	9.7	220	135	4660	0.90	**TR 38 / TRF18 MY 63S4**	166
	10	215	127	4770	0.95	**TR F 38 / TRF18 MY 63S4**	166
	13	174	104	5250	1.15		
	14	150	90	5470	1.35		
	2.4	1020	289.74	28200	3.0	**TR 98 MY 80N8**	156
	2.7	900	255.71	28300	3.3	**TRF 98 MY 80N8**	157
	2.8	850	241.25	28400	3.5		
	3.1	760	216.28	28400	4.0		
	2.8	870	246.54	20000	1.80	**TR 88 MY 80N8**	153
	3.1	760	216.54	20000	2.0	**TRF 88 MY 80N8**	154

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.25	3.3	720	205.71	20000	2.2	**TR 88**	**MY 80N8**	153
	3.7	640	181.77	20000	2.4	**TRF 88**	**MY 80N8**	154
	4.1	585	166.59	11600	1.40	**TR 78**	**MY 80N8**	150
	4.7	510	145.67	12000	1.60	**TRF 78**	**MY 80N8**	151
	4.9	485	138.39	12100	1.70			
	5.6	425	121.42	12400	1.90			
	4.5	530	195.24*	11900	1.55	**TR 78**	**MY 71D6**	150
	5.3	450	166.59	12300	1.80	**TRF 78**	**MY 71D6**	151
	6.0	395	145.67	12500	2.1			
	6.7	360	195.24*	12600	2.3	**TR 78**	**MY 63L4**	150
	7.8	305	166.59	12800	2.7	**TRF 78**	**MY 63L4**	151
	8.9	270	145.67	12900	3.1			
	9.4	255	138.39	12900	3.2			
	11	225	121.42	13000	3.7			
	4.3	555	158.14	8060	1.10	**TR 68**	**MY 80N8**	147
	4.9	485	137.67	8730	1.25	**TRF 68**	**MY 80N8**	148
	5.3	455	128.97	8970	1.35			
	6.0	400	113.94	9340	1.50			
	4.4	540	199.81	8190	1.10	**TR 68**	**MY 71D6**	147
	4.8	500	184.07	8590	1.20	**TRF 68**	**MY 71D6**	148
	5.6	430	158.14	9140	1.40			
	6.4	375	137.67	9500	1.60			
	6.8	350	128.97	9630	1.70			
	7.7	310	113.94	9840	1.95			
	8.3	285	105.83	9940	2.1			
	6.5	365	199.81	9540	1.65	**TR 68**	**MY 63L4**	147
	7.1	340	184.07	9700	1.80	**TRF 68**	**MY 63L4**	148
	8.2	290	158.14	9930	2.1			
	9.4	255	137.67	10100	2.4			
	10	235	128.97	10100	2.5			
	11	210	113.94	10200	2.9			
	12	194	105.83	10300	3.1			
	14	176	95.91	10300	3.4			
	15	158	86.11	10400	3.8			
	4.7	505	186.89	6450	0.90	**TR 58**	**MY 71D6**	144
	5.1	465	172.17	7030	0.95	**TRF 58**	**MY 71D6**	145
	6.0	400	147.92	7300	1.10			
	6.8	350	128.77	7480	1.30			
	7.3	325	120.63	7550	1.35			
	8.3	290	106.58	7660	1.55			
	8.9	270	98.99	7710	1.70			
	7.0	345	186.89	7500	1.30	**TR 58**	**MY 63L4**	144
	7.5	315	172.17	7590	1.40	**TRF 58**	**MY 63L4**	145
	8.8	270	147.92	7700	1.65			
	10	235	128.77	7780	1.90			
	11	220	120.63	7810	2.0			
	12	196	106.58	7860	2.3			
	13	182	98.99	7880	2.5			
	14	165	89.71	7910	2.7			
	16	148	80.55	7930	3.0			
	19	127	69.23	7960	3.5			
	7.4	325	176.88	5280	0.90	**TR 48**	**MY 63L4**	141
	8.0	300	162.94	5420	1.00	**TRF 48**	**MY 63L4**	142
	9.3	255	139.99	5630	1.15			
	11	225	121.87	5770	1.35			
	11	210	114.17	5820	1.45			
	13	185	100.86	5900	1.60			
	14	172	93.68	5940	1.75			
	15	156	84.90	5980	1.90			
	17	140	76.23	6020	2.1			

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.25	19	126	68.54	6050	2.4	**TR 48 MY 63L4**	141
	20	118	64.21	6070	2.5	**TRF 48 MY 63L4**	142
	23	104	56.73	6090	2.9		
	25	97	52.69	6100	3.1		
	27	88	47.75	6080	3.4		
	9.6	250	134.82	2630	0.80	**TR 38 MY 63L4**	138
	11	225	123.66	4560	0.90	**TRF 38 MY 63L4**	139
	12	193	105.28	5030	1.05		
	14	167	90.77	5320	1.20		
	15	155	84.61	5420	1.30		
	18	136	73.96	5590	1.45		
	19	127	69.33	5650	1.55		
	21	112	61.18	5750	1.80		
	23	102	55.76	5800	1.95		
	27	88	48.08	5870	2.3		
	29	82	44.81	5760	2.4		
	33	72	39.17	5540	2.8		
	35	67	36.72	5430	3.0		
	40	60	32.40	5230	3.4		
	15	156	84.78	4100	0.85	**TR 28 MY 63L4**	135
	18	136	74.11	4210	0.95	**TRF 28 MY 63L4**	136
	19	128	69.47	4250	1.00		
	21	113	61.30	4190	1.15		
	23	103	55.87	4090	1.25		
	27	89	48.17	3940	1.45		
	29	83	44.90	3870	1.60		
	33	72	39.25	3730	1.80		
	35	68	36.79	3670	1.90		
	40	60	32.47	3540	2.2		
	45	53	28.78	3420	2.5		
	53	45	24.47	3270	2.9		
	46	52	28.37	3410	2.5	**TR 28 MY 63L4**	135
	50	48	26.09	3330	2.7	**TRF 28 MY 63L4**	136
	58	41	22.32	3180	3.2		
	67	36	19.35	3050	3.7		
	72	33	18.08	2990	3.9		
	83	29	15.63	2860	4.5		
	98	24	13.28*	2730	5.3		
	110	22	11.86	2630	5.9		
	128	19	10.13	2510	6.6		
	138	17	9.41	2440	7.1		
	159	15	8.16	2330	7.7		
	170	14	7.63*	2290	8.0		
	197	12	6.59	2180	8.8		
	232	10	5.60*	2080	9.6		
	260	9.2	5.00*	2000	10		
	304	7.8	4.27	1910	11		
	325	7.3	4.00*	1870	12		
	386	6.2	3.37	1770	13		
	23	105	57.35	156	0.80	**TR 18 MY 63L4**	132
	24	99	53.76	785	0.85	**TRF 18 MY 63L4**	133
	27	87	47.44	1630	1.00		
	29	81	44.18	2000	1.05		
	34	71	38.61	2200	1.20		
	36	67	36.20	2180	1.30		
	41	59	31.94	2130	1.45		
	46	52	28.32	2070	1.65		
	54	44	24.07	2000	1.90		
	52	46	25.23	2020	1.85	**TR 18 MY 63L4**	132
	56	43	23.15	1980	2.0	**TRF 18 MY 63L4**	133

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page
0.25	66	36	19.71	1910	2.4	**TR 18**	**MY 63L4**	132
	77	31	16.99	1840	2.7	**TRF 18**	**MY 63L4**	133
	82	29	15.84	1810	2.9			
	94	25	13.84	1750	3.4			
	100	24	12.98	1720	3.6			
	114	21	11.45	1660	3.9			
	145	17	6.07	4890	2.6	**TRX 68**	**MY 71D6**	122
	170	14	5.18	4650	5.4	**TRXF 68**	**MY 71D6**	123
	194	12	4.53	4450	6.7			
	205	12	4.30*	4380	6.8			
	214	11	6.07	4310	3.9	**TRX 68**	**MY 63L4**	122
	251	9.5	5.18	4100	7.9	**TRXF 68**	**MY 63L4**	123
	287	8.3	4.53	3920	9.9			
	302	7.9	4.30*	3860	10			
	345	6.9	3.77	3700	13			
	406	5.9	3.20*	3500	17			
	450	5.3	2.89	3390	20			
	511	4.7	2.54	3250	25			
	542	4.4	2.40*	3190	28			
	636	3.8	2.04	3020	35			
	160	15	5.50*	3840	2.6	**TRX 58**	**MY 71D6**	120
	174	14	5.07	3740	2.6	**TRXF 58**	**MY 71D6**	121
	202	12	4.35	3560	5.8			
	232	10	3.79	3410	6.7			
	236	10	5.50*	3390	3.9	**TRX 58**	**MY 63L4**	120
	257	9.3	5.07	3300	3.9	**TRXF 58**	**MY 63L4**	121
	299	8.0	4.35	3150	8.5			
	343	7.0	3.79	3010	9.9			
	366	6.5	3.55*	2950	11			
	414	5.8	3.14	2830	11			
	446	5.3	2.91	2760	13			
	492	4.8	2.64*	2680	14			
	548	4.4	2.37	2580	16			
	637	3.7	2.04	2460	19			
	677	3.5	1.92*	2410	20			
	787	3.0	1.65	2300	23			
0.37	0.19	15900	7307	37500	0.80	**TR 148 / TRF78**	**MY 71D4**	166
	0.21	14100	6447	60400	0.90	**TRF 148 / TRF78**	**MY 71D4**	166
	0.25	12100	5568	64300	1.05			
	0.28	10900	4926	66400	1.20			
	0.32	9480	4325	68500	1.35			
	0.37	8310	3754	70000	1.55			
	0.42	7240	3302	71100	1.80			
	0.48	6320	2898	71900	2.1			
	0.31	9740	4464	39400	0.80	**TR 138 / TRF78**	**MY 71D4**	166
	0.35	8570	3928	51500	0.95	**TRF 138 / TRF78**	**MY 71D4**	166
	0.34	9080	4018	49200	0.90	**TR 138 / TRF78**	**MY 71D4**	166
	0.39	7940	3514	53500	1.00	**TRF 138 / TRF78**	**MY 71D4**	166
	0.41	7540	3338	54300	1.05			
	0.47	6620	2929	56000	1.20			
	0.56	5600	2484	57600	1.45			
	0.62	5030	2242	58400	1.60			
	0.52	6000	2658	57000	1.35	**TR 138 / TRF78**	**MY 71D4**	166
	0.57	5440	2412	57800	1.45	**TRF 138 / TRF78**	**MY 71D4**	166
	0.67	4680	2073	58800	1.70			
	0.75	4060	1839	59400	1.95			
	0.99	3130	1397	60200	2.6			
	1.1	2720	1226	60500	2.9			
	1.3	2440	1090	60700	3.3			
	1.4	2130	951	60900	3.8			

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.37	0.67	4660	2067	27300	0.90	**TR 108 / TRF78 MY 71D4**	166
	0.82	3790	1693	31900	1.15	**TRF 108 / TRF78 MY 71D4**	166
	0.89	3420	1550	33500	1.25		
	0.98	3110	1407	34600	1.40		
	1.1	2670	1209	35900	1.60		
	1.3	2330	1055	36400	1.85		
	0.69	4450	1987	28600	0.95	**TR 108 / TRF78 MY 71D4**	166
	0.76	4030	1827	30800	1.05	**TRF 108 / TRF78 MY 71D4**	166
	0.86	3490	1599	33200	1.25		
	0.99	3090	1400	34600	1.40		
	1.1	2670	1226	35900	1.60		
	1.5	2070	939	36700	2.1		
	1.7	1790	822	37000	2.4		
	1.1	2760	1207	22500	1.10	**TR 98 / TRF58 MY 71D4**	166
	1.3	2470	1084	24300	1.20	**TRF 98 / TRF58 MY 71D4**	166
	1	3180	1396	10800	0.95	**TR 98 / TRF58 MY 71D4**	166
	1.1	2780	1228	22500	1.10	**TRF 98 / TRF58 MY 71D4**	166
	1.3	2480	1069	24200	1.20		
	1.5	2160	938	25700	1.40		
	1.7	1860	824	26900	1.60		
	1.9	1670	737	27400	1.80		
	2.2	1430	632	27700	2.1		
	3.2	980	431	28200	3.1		
	3.6	860	379	28300	3.5		
	4.1	765	336	28400	3.9		
	1.7	1810	802	13800	0.85	**TR 88 / TRF58 MY 71D4**	166
	1.8	1700	754	15800	0.90	**TRF 88 / TRF58 MY 71D4**	166
	2.1	1450	649	17600	1.05		
	1.8	1780	776	15100	0.85	**TR 88 / TRF58 MY 71D4**	166
	2.0	1570	685	16800	1.00	**TRF 88 / TRF58 MY 71D4**	166
	2.3	1340	599	18300	1.15		
	2.6	1170	525	19100	1.30		
	3.0	1030	456	19700	1.50		
	5.2	595	268	20000	2.6		
	5.9	525	236	20000	2.9		
	2.6	1260	538	18700	1.25	**TR 88 / TRF58 MY 71D4**	166
	2.9	1100	472	19400	1.40	**TRF 88 / TRF58 MY 71D4**	166
	3.5	930	400	20000	1.65		
	3.8	830	361	20000	1.85		
	3.7	860	373	9520	0.95	**TR 78 / TRF38 MY 71D4**	166
	4.2	755	327	10500	1.10	**TRF 78 / TRF38 MY 71D4**	166
	4.8	670	289	11100	1.20		
	5.3	600	260	11600	1.35		
	6.2	510	224	12000	1.60		
	7.0	445	197	12300	1.85		
	8.2	390	169	12500	2.1		
	9.3	340	149	12700	2.4		
	4.7	665	294	4670	0.90	**TR 68 / TRF38 MY 71D4**	166
	5.3	600	261	7550	1.00	**TRF 68 / TRF38 MY 71D4**	166
	5.9	540	234	8220	1.10		
	6.9	460	200	8930	1.30		
	2.7	1330	255.71	27900	2.3	**TR 98 MY 90S8**	156
	2.8	1250	241.25	28000	2.4	**TRF 98 MY 90S8**	157
	3.1	1120	216.28	28100	2.7		
	3.6	970	186.30	28300	3.1		
	3.1	1140	289.74	28100	2.6	**TR 98 MY 80K6**	156
	3.5	1000	255.71	28200	3.0	**TRF 98 MY 80K6**	157
	3.7	950	241.25	28300	3.2		
	4.2	850	216.28	28400	3.5		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
0.37	3.1	1130	216.54	19300	1.40	**TR**	**88**	**MY**	**90S8**	153
	3.3	1070	205.71	19600	1.45	**TRF**	**88**	**MY**	**90S8**	154
	3.7	940	181.77	20000	1.65					
	3.6	970	246.54	20000	1.60	**TR**	**88**	**MY**	**80K6**	153
	4.2	850	216.54	20000	1.80	**TRF**	**88**	**MY**	**80K6**	154
	4.4	810	205.71	20000	1.90					
	5.0	715	181.77	20000	2.2					
	5.8	610	155.34	20000	2.5					
	6.3	560	142.41	20000	2.8					
	4.7	755	145.67	10500	1.10	**TR**	**78**	**MY**	**90S8**	150
	4.9	720	138.39	10800	1.15	**TRF**	**78**	**MY**	**90S8**	151
	5.6	630	121.42	11400	1.30					
	5.4	655	166.59	11200	1.25	**TR**	**78**	**MY**	**80K6**	150
	6.2	570	145.67	11700	1.45	**TRF**	**78**	**MY**	**80K6**	151
	6.5	545	138.39	11900	1.50					
	7.1	500	195.24*	12100	1.65	**TR**	**78**	**MY**	**71D4**	150
	8.3	425	166.59	12400	1.90	**TRF**	**78**	**MY**	**71D4**	151
	9.5	375	145.67	12600	2.2					
	10	355	138.39	12600	2.3					
	11	310	121.42	12800	2.6					
	13	265	102.99	12900	3.1					
	15	240	92.97	12900	3.5					
	5.7	620	158.14	7300	0.95	**TR**	**68**	**MY**	**80K6**	147
	6.5	540	137.67	8210	1.10	**TRF**	**68**	**MY**	**80K6**	148
	7.0	505	128.97	8530	1.20					
	7.9	445	113.94	9010	1.35					
	6.9	510	199.81	8480	1.15	**TR**	**68**	**MY**	**71D4**	147
	7.5	470	184.07	8820	1.25	**TRF**	**68**	**MY**	**71D4**	148
	8.7	405	158.14	9310	1.50					
	10	355	137.67	9620	1.70					
	11	330	128.97	9740	1.80					
	12	290	113.94	9920	2.1					
	13	270	105.83	10000	2.2					
	14	245	95.91	10100	2.4					
	16	220	86.11	10200	2.7					
	19	190	74.17	10300	3.2					
	20	179	69.75	10300	3.4					
	23	157	61.26	10400	3.8					
	24	146	56.89	10400	4.1					
	7.0	505	128.77	6510	0.90	**TR**	**58**	**MY**	**80K6**	144
	7.5	475	120.63	7000	0.95	**TRF**	**58**	**MY**	**80K6**	145
	8.4	420	106.58	7240	1.10					
	9.1	390	98.99	7350	1.15					
	7.4	480	186.89	6980	0.95	**TR**	**58**	**MY**	**71D4**	144
	8.0	440	172.17	7140	1.00	**TRF**	**58**	**MY**	**71D4**	145
	9.3	380	147.92	7390	1.20					
	11	330	128.77	7550	1.35					
	11	310	120.63	7610	1.45					
	13	275	106.58	7700	1.65					
	14	255	98.99	7750	1.80					
	15	230	89.71	7800	1.95					
	17	205	80.55	7840	2.2					
	20	177	69.23	7890	2.5					
	21	166	64.85	7910	2.7					
	24	147	57.29	7760	3.1					
	26	136	53.22	7600	3.3					
	29	124	48.23	7380	3.6					
	10	360	139.99	3490	0.85	**TR**	**48**	**MY**	**71D4**	141
	11	310	121.87	5350	0.95	**TRF**	**48**	**MY**	**71D4**	142
	12	290	114.17	5460	1.05					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.37	14	260	100.86	5630	1.15	**TR 48 MY 71D4**	141
	15	240	93.68	5700	1.25	**TRF 48 MY 71D4**	142
	16	215	84.90	5790	1.40		
	18	195	76.23	5870	1.55		
	20	176	68.54	5930	1.70		
	21	164	64.21	5960	1.80		
	24	145	56.73	6010	2.1		
	26	135	52.69	5990	2.2		
	29	122	47.75	5820	2.5		
	32	110	42.87	5650	2.7		
	37	95	36.93	5410	3.2		
	40	89	34.73	5310	3.4		
	41	87	33.79	5270	2.8	**TR 48 MY 71D4**	141
	44	80	31.12	5150	2.8	**TRF 48 MY 71D4**	142
	52	69	26.74	4920	4.4		
	59	60	23.28	4720	5.0		
	63	56	21.81	4620	5.4		
	15	230	90.77	4250	0.85	**TR 38 MY 71D4**	138
	16	215	84.61	4720	0.90	**TRF 38 MY 71D4**	139
	19	189	73.96	5070	1.05		
	20	178	69.33	5210	1.15	**TR 38 MY 71D4**	138
	23	157	61.18	5410	1.30	**TRF 38 MY 71D4**	139
	25	143	55.76	5530	1.40		
	29	123	48.08	5590	1.60		
	31	115	44.81	5480	1.75		
	35	100	39.17	5290	2.0		
	38	94	36.72	5190	2.1		
	43	83	32.40	5010	2.4		
	48	74	28.73	4850	2.7		
	57	63	24.42	4620	3.2		
	49	73	28.32	4830	2.8	**TR 38 MY 71D4**	138
	53	67	26.03	4710	2.8	**TRF 38 MY 71D4**	139
	62	57	22.27	4500	3.5		
	71	49	19.31	4320	4.1		
	76	46	18.05	4230	4.3		
	88	40	15.60	4050	5.0		
	104	34	13.25	3850	5.6		
	117	30	11.83	3720	6.0		
	23	157	61.30	3870	0.85	**TR 28 MY 71D4**	135
	25	143	55.87	3800	0.90	**TRF 28 MY 71D4**	136
	29	123	48.17	3680	1.05		
	31	115	44.90	3620	1.15		
	35	101	39.25	3510	1.30		
	38	94	36.79	3460	1.40		
	43	83	32.47	3350	1.55		
	48	74	28.78	3250	1.75		
	56	63	24.47	3110	2.10		
	49	73	28.37	3240	1.80	**TR 28 MY 71D4**	135
	53	67	26.09	3170	1.95	**TRF 28 MY 71D4**	136
	62	57	22.32	3040	2.3		
	71	50	19.35	2920	2.6		
	76	46	18.08	2860	2.8		
	88	40	15.63	2750	3.3		
	104	34	13.28*	2620	3.8		
	36	99	38.61	770	0.85	**TR 18 MY 71D4**	132
	38	93	36.20	1260	0.90	**TRF 18 MY 71D4**	133
	43	82	31.94	1910	1.05		
	49	73	28.32	1880	1.15		
	57	62	24.07	1830	1.40		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.37	55	65	25.23	1840	1.30	**TR 18 MY 71D4**	132
	60	59	23.15	1820	1.45	**TRF 18 MY 71D4**	133
	70	51	19.71	1760	1.70		
	81	44	16.99	1710	1.95		
	87	41	15.84	1680	2.1		
	100	35	13.84	1630	2.4		
	106	33	12.98	1610	2.6		
	121	29	11.45	1560	2.8		
	136	26	10.15	1520	3.0		
	160	22	8.63	1460	3.3		
	183	19	7.55	1370	2.9		
	196	18	7.04	1350	3.1		
	224	16	6.15	1300	3.4		
	239	15	5.76	1280	3.6		
	271	13	5.09	1240	3.9		
	306	12	4.51	1200	4.2		
	360	9.8	3.83	1150	4.6		
	174	20	5.18	4570	3.7	**TRX 68 MY 80K6**	122
	199	18	4.53	4380	4.6	**TRXF 68 MY 80K6**	123
	209	17	4.30*	4310	4.7		
	239	15	3.77	4130	5.9		
	227	16	6.07	4200	2.8	**TRX 68 MY 71D4**	122
	267	13	5.18	3990	5.6	**TRXF 68 MY 71D4**	123
	305	12	4.53	3820	7.1		
	321	11	4.30*	3760	7.3		
	366	9.7	3.77	3610	9.0		
	431	8.2	3.20*	3420	12		
	478	7.4	2.89	3310	14		
	543	6.5	2.54	3170	18		
	575	6.1	2.40*	3110	20		
	675	5.2	2.04	2950	26		
	207	17	4.35	3500	4.0	**TRX 58 MY 80K6**	120
	238	15	3.79	3350	4.6	**TRXF 58 MY 80K6**	121
	254	14	3.55*	3280	5.0		
	251	14	5.50*	3300	2.8	**TRX 58 MY 71D4**	120
	272	13	5.07	3210	2.8	**TRXF 58 MY 71D4**	121
	317	11	4.35	3060	6.1		
	364	9.7	3.79	2930	7.1		
	389	9.1	3.55*	2870	7.6		
	440	8.0	3.14	2760	8.1		
	474	7.5	2.91	2690	8.9		
	523	6.8	2.64*	2610	10		
	582	6.1	2.37	2520	11		
	676	5.2	2.04	2400	13		
	719	4.9	1.92*	2350	14		
	835	4.2	1.65	2240	16		
0.55	0.22	19800	6077	120000	0.90	**TR 168 / TRF98 MY 80K4**	166
	0.25	17600	5407	120000	1.00	**TRF 168 / TRF98 MY 80K4**	166
	0.29	15000	4650	120000	1.20		
	0.33	13100	4129	120000	1.35		
	0.28	16900	4926	22000	0.75	**TR 148 / TRF78 MY 80K4**	166
	0.31	14700	4325	53900	0.90	**TRF 148 / TRF78 MY 80K4**	166
	0.36	12900	3754	62900	1.00		
	0.41	11200	3302	65900	1.15		
	0.47	9830	2898	68000	1.30		
	0.53	8890	2555	69300	1.45	**TR 148 / TRF78 MY 80K4**	166
	0.62	7700	2211	70600	1.70	**TRF 148 / TRF78 MY 80K4**	166
	0.70	6790	1951	71500	1.90		
	0.80	5810	1705	72400	2.2		
	0.89	5210	1536	72800	2.5		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.55	1.00	4510	1329	73300	2.9	**TR 148 / TRF78 MY 80K4**	166
	1.20	3920	1166	73600	3.3	**TRF 148 / TRF78 MY 80K4**	166
	0.55	8650	2484	51200	0.90	**TR 138 / TRF78 MY 80K4**	166
						TRF 138 / TRF78 MY 80K4	166
	0.51	9250	2658	48400	0.85	**TR 138 / TRF78 MY 80K4**	166
	0.56	8400	2412	52300	0.95	**TRF 138 / TRF78 MY 80K4**	166
	0.66	7220	2073	55000	1.10		
	0.74	6320	1839	56500	1.25		
	0.85	5420	1598	57900	1.50		
	0.97	4840	1397	58600	1.65		
	1.1	4220	1226	59300	1.90		
	1.2	3780	1090	59700	2.1		
	1.4	3300	951	60100	2.4		
	1.6	2820	831	60500	2.8		
	1	4830	1407	21900	0.90	**TR 108 / TRF78 MY 80K4**	166
	1.1	4150	1209	30200	1.05	**TRF 108 / TRF78 MY 80K4**	166
	1.3	3620	1055	32700	1.20		
	1.5	3170	919	34400	1.35		
	1.7	2830	815	35500	1.50		
	1.9	2470	717	36200	1.75		
	2.2	2160	626	36600	2.0		
	1.0	4810	1400	22800	0.90	**TR 108 / TRF78 MY 80K4**	166
	1.1	4180	1226	30100	1.05	**TRF 108 / TRF78 MY 80K4**	166
	1.2	3740	1104	32200	1.15		
	1.4	3220	939	34200	1.35		
	1.7	2800	822	35600	1.55		
	1.7	2870	824	21800	1.05	**TR 98 / TRF58 MY 80K4**	166
	1.8	2570	737	23700	1.15	**TRF 98 / TRF58 MY 80K4**	166
	2.1	2200	632	25500	1.35		
	2.4	1920	560	26700	1.55		
	2.8	1670	484	27400	1.80		
	3.1	1510	431	27600	2.0		
	3.6	1320	379	27900	2.3		
	4.0	1180	336	28000	2.6		
	4.6	1030	296	28200	2.9		
	5.5	860	249	28300	3.5		
	2.6	1820	525	13600	0.85	**TR 88 / TRF58 MY 80K4**	166
	3.0	1580	456	16700	1.00	**TRF 88 / TRF58 MY 80K4**	166
	3.4	1370	398	18100	1.15		
	3.9	1210	352	18900	1.30		
	4.5	1040	305	19700	1.50		
	2.9	1690	472	15900	0.90	**TR 88 / TRF58 MY 80K4**	166
	3.4	1420	400	17800	1.10	**TRF 88 / TRF58 MY 80K4**	166
	3.8	1280	361	18600	1.20		
	4.9	990	276	4510	0.85	**TR 78 / TRF38 MY 80K4**	166
	5.8	840	236	9730	1.00	**TRF 78 / TRF38 MY 80K4**	166
	6.2	785	221	10200	1.05		
	7.3	660	186	11200	1.25		
	2.7	1980	255.71	26500	1.50	**TR 98 MY 90L8**	156
	2.8	1860	241.25	26900	1.60	**TRF 98 MY 90L8**	157
	3.1	1670	216.28	27400	1.80		
	3.1	1690	289.74	27400	1.75	**TR 98 MY 80N6**	156
	3.5	1490	255.71	27700	2.0	**TRF 98 MY 80N6**	157
	3.7	1410	241.25	27800	2.1		
	4.2	1260	216.28	28000	2.4		
	4.7	1120	289.74	28100	2.7	**TR 98 MY 80K4**	156
	5.3	990	255.71	28200	3.0	**TRF 98 MY 80K4**	157
	5.6	930	241.25	28300	3.2		
	6.3	840	216.28	28400	3.6		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
0.55	3.6	1440	246.54	17700	1.10	**TR**	**88**	**MY**	**80N6**	153
	4.2	1260	216.54	18700	1.25	**TRF**	**88**	**MY**	**80N6**	154
	4.4	1200	205.71	19000	1.30					
	5.0	1060	181.77	19600	1.45					
	5.8	910	155.34	20000	1.70					
	5.5	950	246.54	20000	1.65	**TR**	**88**	**MY**	**80K4**	153
	6.3	840	216.54	20000	1.85	**TRF**	**88**	**MY**	**80K4**	154
	6.6	795	205.71	20000	1.95					
	7.5	700	181.77	20000	2.2					
	8.8	600	155.34	20000	2.6					
	9.6	550	142.41	20000	2.8					
	11	485	124.97	20000	3.2					
	11	455	118.43*	20000	3.4					
	13	400	103.65	20000	3.9					
	8.2	645	166.59	11300	1.25	**TR**	**78**	**MY**	**80K4**	150
	9.3	565	145.67	11800	1.45	**TRF**	**78**	**MY**	**80K4**	151
	9.8	535	138.39	11900	1.55					
	11	470	121.42	12200	1.75					
	13	400	102.99	12500	2.1					
	15	360	92.97	12600	2.3					
	17	315	81.80	12800	2.6					
	18	300	77.24	12800	2.8					
	21	255	65.77	12900	3.2					
	8.6	610	158.14	7430	1.00	**TR**	**68**	**MY**	**80K4**	147
	9.9	530	137.67	8290	1.15	**TRF**	**68**	**MY**	**80K4**	148
	11	500	128.97	8600	1.20					
	12	440	113.94	9060	1.35					
	13	410	105.83	9280	1.45					
	14	370	95.91	9520	1.60					
	16	335	86.11	9730	1.80					
	18	285	74.17	9940	2.1					
	20	270	69.75	10000	2.2					
	22	235	61.26	10100	2.5					
	24	220	56.89	10200	2.7					
	11	465	120.63	7030	0.95	**TR**	**58**	**MY**	**80K4**	144
	13	410	106.58	7260	1.10	**TRF**	**58**	**MY**	**80K4**	145
	14	380	98.99	7370	1.20					
	15	345	89.71	7490	1.30					
	17	310	80.55	7600	1.45					
	20	265	69.23	7710	1.70					
	21	250	64.85	7750	1.80					
	24	220	57.29	7530	2.0					
	26	205	53.22	7390	2.2					
	28	186	48.23	7190	2.4					
	31	167	43.30	6980	2.7					
	36	144	37.30*	6700	3.1					
	39	136	35.07	6580	3.3					
	52	102	26.31	6060	4.4	**TR**	**58**	**MY**	**80K4**	144
	54	97	24.99*	5970	4.7	**TRF**	**58**	**MY**	**80K4**	145
	62	85	21.93	5740	5.3					
	73	72	18.60*	5460	6.3					
	15	360	93.68	3280	0.85	**TR**	**48**	**MY**	**80K4**	141
	16	330	84.90	5230	0.90	**TRF**	**48**	**MY**	**80K4**	142
	18	295	76.23	5450	1.00					
	20	265	68.54	5600	1.15					
	21	250	64.21	5670	1.20					
	24	220	56.73	5790	1.35					
	26	205	52.69	5770	1.45					
	28	184	47.75	5630	1.65					
	32	166	42.87	5470	1.80					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.55	37	143	36.93	5260	2.1	**TR 48 MY 80K4**	141
	39	134	34.73	5180	2.2	**TRF 48 MY 80K4**	142
	46	115	29.88	4970	2.6		
	51	103	26.74	4820	2.9	**TR 48 MY 80K4**	141
	58	90	23.28	4630	3.3	**TRF 48 MY 80K4**	142
	62	84	21.81	4550	3.6		
	22	235	61.18	3910	0.85	**TR 38 MY 80K4**	138
	24	215	55.76	4740	0.95	**TRF 38 MY 80K4**	139
	28	186	48.08	5120	1.10		
	30	173	44.81	5230	1.15		
	35	151	39.17	5070	1.30		
	37	142	36.72	4990	1.40		
	42	125	32.40	4840	1.60		
	47	111	28.73	4700	1.80		
	56	94	24.42	4500	2.1		
	61	86	22.27	4390	2.3	**TR 38 MY 80K4**	138
	70	75	19.31	4220	2.7	**TRF 38 MY 80K4**	139
	75	70	18.05	4140	2.9		
	87	60	15.60	3970	3.3		
	103	51	13.25	3790	3.7		
	115	46	11.83	3670	4.0		
	35	152	39.25	3280	0.85	**TR 28 MY 80K4**	135
	37	142	36.79	3240	0.90	**TRF 28 MY 80K4**	136
	42	125	32.47	3160	1.05		
	47	111	28.78	3080	1.15		
	56	95	24.47	2970	1.40		
	61	86	22.32	2910	1.50	**TR 28 MY 80K4**	135
	70	75	19.35	2810	1.75	**TRF 28 MY 80K4**	136
	75	70	18.08	2760	1.85		
	87	60	15.63	2660	2.2		
	102	51	13.28*	2550	2.5		
	115	46	11.86	2470	2.8		
	134	39	10.13	2370	3.1		
	145	36	9.41	2290	3.4		
	167	32	8.16	2200	3.7		
	178	29	7.63*	2160	3.8		
	206	26	6.59	2070	4.2		
	243	22	5.60*	1980	4.6		
	272	19	5.00*	1910	4.9		
	318	17	4.27	1830	5.3		
	340	15	4.00*	1790	5.5		
	404	13	3.37	1700	6.1		
	50	105	53.76	235	0.80	**TR 18 MY 80K4**	132
	57	92	47.44	1280	0.90	**TRF 18 MY 80K4**	133
	61	86	44.18	1610	1.00		
	70	75	38.61	1590	1.15		
	69	76	19.71	1590	1.10	**TR 18 MY 80K4**	132
	80	66	16.99	1560	1.30	**TRF 18 MY 80K4**	133
	86	61	15.84	1550	1.40		
	98	54	13.84	1510	1.60		
	105	50	12.98	1500	1.70		
	119	44	11.45	1460	1.85		
	134	39	10.15	1430	1.95		
	158	33	8.63	1380	2.2		
	180	29	7.55	1290	1.9		
	193	27	7.04	1270	2.0		
	221	24	6.15	1240	2.3		
	236	22	5.76	1220	2.4		
	267	20	5.09	1190	2.6		
	302	17	4.51	1150	2.8		
	355	15	3.83	1110	3.0		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.55	313	17	8.63	1170	4.3	**TR 18 MY 80K4**	132
	358	15	7.55	1100	3.8	**TRF 18 MY 80K4**	133
	384	14	7.04	1080	4.0		
	439	12	6.15	1050	4.5		
	174	30	5.18	4510	2.5	**TRX 68 MY 80N6**	122
	199	26	4.53	4320	3.1	**TRXF 68 MY 80N6**	123
	209	25	4.30*	4260	3.2		
	239	22	3.77	4090	4.0		
	263	20	5.18	3970	3.8	**TRX 68 MY 80K4**	122
	300	18	4.53	3800	4.7	**TRXF 68 MY 80K4**	123
	316	17	4.30*	3740	4.8		
	360	15	3.77	3590	6.0		
	425	12	3.20*	3410	8.1		
	471	11	2.89	3300	9.5		
	535	9.8	2.54	3170	12		
	567	9.3	2.40*	3110	13		
	666	7.9	2.04	2950	17		
	732	7.2	1.86	2860	18		
	845	6.2	1.61	2730	18		
	207	25	4.35	3440	2.7	**TRX 58 MY 80N6**	120
	238	22	3.79	3300	3.1	**TRXF 58 MY 80N6**	121
	254	21	3.55*	3230	3.3		
	287	18	3.14	3110	3.6		
	309	17	2.91	3040	3.9		
	312	17	4.35	3040	4.1	**TRX 58 MY 80K4**	120
	359	15	3.79	2910	4.7	**TRXF 58 MY 80K4**	121
	383	14	3.55*	2850	5.0		
	434	12	3.14	2740	5.4		
	467	11	2.91	2680	6.0		
	515	10	2.64*	2600	6.8		
	574	9.2	2.37	2510	7.5		
	666	7.9	2.04	2390	8.7		
	708	7.4	1.92*	2350	9.3		
	823	6.4	1.65	2230	11		
	921	5.7	1.48	2150	12		
	1045	5.0	1.30	2070	13		
0.75	0.30	20700	4650	120000	0.85	**TR 168 / TRF98 MY 80N4**	166
	0.33	18200	4129	120000	1.00	**TRF 168 / TRF98 MY 80N4**	166
	0.52	12100	2657	120000	1.50	**TR 168 / TRF98 MY 80N4**	166
	0.59	10500	2333	120000	1.70	**TRF 168 / TRF98 MY 80N4**	166
	0.66	9300	2085	120000	1.95	**TR 168 / TRF98 MY 80N4**	166
	0.96	6550	1438	120000	2.8	**TRF 168 / TRF98 MY 80N4**	166
	0.42	15300	3302	46300	0.85	**TR 148 / TRF78 MY 80N4**	166
	0.48	13400	2898	61800	0.95	**TRF 148 / TRF78 MY 80N4**	166
	0.54	12100	2555	64400	1.10	**TR 148 / TRF78 MY 80N4**	166
	0.62	10500	2211	67100	1.25	**TRF 148 / TRF78 MY 80N4**	166
	0.71	9230	1951	68800	1.40		
	0.81	7940	1705	70400	1.65		
	0.90	7130	1536	71200	1.80		
	1.00	6170	1329	72100	2.1		
	1.20	5380	1166	72700	2.4		
	0.74	8730	1863	50900	0.90	**TR 138 / TRF78 MY 80N4**	166
	0.87	7390	1586	54600	1.10	**TRF 138 / TRF78 MY 80N4**	166
	0.99	6580	1391	56100	1.20		
	1.10	5920	1256	57100	1.35		
	0.67	9810	2073	37900	0.80	**TR 138 / TRF78 MY 80N4**	166
	0.75	8610	1839	51400	0.95	**TRF 138 / TRF78 MY 80N4**	166
	0.86	7410	1598	54600	1.10		
	0.99	6590	1397	56100	1.20		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.75	1.1	5750	1226	57400	1.40	**TR 138 / TRF78 MY 80N4**	166
	1.3	5140	1090	58200	1.55	**TRF 138 / TRF78 MY 80N4**	166
	1.4	4490	951	59000	1.80		
	1.7	3860	831	59600	2.1		
	1.9	3360	730	60100	2.4		
	1.3	4940	1055	16400	0.85	**TR 108 / TRF78 MY 80N4**	166
	1.5	4310	919	29400	1.00	**TRF 108 / TRF78 MY 80N4**	166
	1.7	3840	815	31700	1.10		
	1.5	4400	939	28900	1.00	**TR 108 / TRF78 MY 80N4**	166
	1.7	3830	822	31800	1.10	**TRF 108 / TRF78 MY 80N4**	166
	3.7	1710	369	37100	2.5		
	4.3	1490	323	37200	2.9		
	2.2	2990	632	20100	1.00	**TR 98 / TRF58 MY 80N4**	166
	2.5	2620	560	23400	1.15	**TRF 98 / TRF58 MY 80N4**	166
	2.9	2270	484	25200	1.30		
	3.2	2050	431	26200	1.45		
	3.6	1800	379	27100	1.65		
	4.1	1600	336	27500	1.90		
	4.7	1400	296	27800	2.1		
	5.5	1170	249	28100	2.6		
	3.5	1870	398	9720	0.85	**TR 88 / TRF58 MY 80N4**	166
	3.9	1650	352	16200	0.95	**TRF 88 / TRF58 MY 80N4**	166
	4.5	1430	305	17700	1.10		
	5.2	1260	268	18700	1.25		
	5.9	1110	236	19400	1.40		
	3.8	1740	361	15500	0.90	**TR 88 / TRF58 MY 80N4**	166
	4.6	1440	300	17700	1.10	**TRF 88 / TRF58 MY 80N4**	166
	5.4	1220	256	18900	1.25		
	2.8	2610	251.15	36000	1.65	**TR 108 MY 100M8**	158
	3.0	2390	229.95	36300	1.80	**TRF 108 MY 100M8**	159
	3.4	2110	203.16	36700	2.00		
	3.2	2240	216.28	25300	1.35	**TR 98 MY 100M8**	156
	3.7	1930	186.30	26600	1.55	**TRF 98 MY 100M8**	157
	4.1	1760	170.02	27200	1.70		
	3.5	2030	255.71	26200	1.45	**TR 98 MY 90S6**	156
	3.7	1920	241.25	26700	1.55	**TRF 98 MY 90S6**	157
	4.2	1720	216.28	27300	1.75		
	4.8	1500	289.74	27600	2.0	**TR 98 MY 80N4**	156
	5.4	1330	255.71	27900	2.3	**TRF 98 MY 80N4**	157
	5.7	1250	241.25	28000	2.4		
	6.4	1120	216.28	28100	2.7		
	7.4	970	186.30	28300	3.1		
	8.1	880	170.02	28300	3.4		
	4.2	1720	216.54	15600	0.90	**TR 88 MY 90S6**	153
	4.4	1640	205.71	16300	0.95	**TRF 88 MY 90S6**	154
	5.0	1450	181.77	17600	1.05		
	5.8	1240	155.34	18800	1.25	**TR 88 MY 90S6**	153
	6.3	1130	142.41	19300	1.35	**TRF 88 MY 90S6**	154
	5.6	1280	246.54	18600	1.20	**TR 88 MY 80N4**	153
	6.4	1120	216.54	19300	1.40	**TRF 88 MY 80N4**	154
	6.7	1070	205.71	19600	1.45		
	7.6	940	181.77	20000	1.65		
	8.9	810	155.34	20000	1.90		
	9.7	740	142.41	20000	2.1		
	11	650	124.97	20000	2.4		
	12	615	118.43*	20000	2.5		
	13	540	103.65	20000	2.9		
	15	485	93.38	20000	3.2		
	8.3	860	166.59	9490	0.95	**TR 78 MY 80N4**	150
	9.5	755	145.67	10500	1.10	**TRF 78 MY 80N4**	151
	10	720	138.39	10800	1.15		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
0.75	11	630	121.42	11400	1.30	**TR**	**78**	**MY**	**80N4**	150
	13	535	102.99	11900	1.55	**TRF**	**78**	**MY**	**80N4**	151
	15	485	92.97	12200	1.70					
	17	425	81.80	12400	1.95					
	18	400	77.24	12500	2.1					
	21	340	65.77	12700	2.4					
	24	300	57.68	12800	2.7					
	27	270	52.07	12900	3.0					
	30	240	45.81	12900	3.5					
	32	225	43.26	13000	3.7					
	11	670	128.97	4040	0.90	**TR**	**68**	**MY**	**80N4**	147
	12	590	113.94	7660	1.00	**TRF**	**68**	**MY**	**80N4**	148
	13	550	105.83	8120	1.10					
	14	500	95.91	8600	1.20					
	16	445	86.11	9010	1.35					
	19	385	74.17	9430	1.55					
	20	360	69.75	9570	1.65					
	23	320	61.26	9800	1.90					
	24	295	56.89	9910	2.0					
	27	270	51.56	10000	2.2					
	30	240	46.29	10100	2.5					
	13	555	106.58	4610	0.80	**TR**	**58**	**MY**	**80N4**	144
	14	515	98.99	6200	0.90	**TRF**	**58**	**MY**	**80N4**	145
	15	465	89.71	7040	0.95					
	17	420	80.55	7240	1.10					
	20	360	69.23	7450	1.25					
	21	335	64.85	7430	1.35					
	24	295	57.29	7220	1.50					
	26	275	53.22	7090	1.65	**TR**	**58**	**MY**	**80N4**	144
	29	250	48.23	6930	1.80	**TRF**	**58**	**MY**	**80N4**	145
	32	225	43.30	6740	2.0					
	37	194	37.30*	6490	2.3					
	39	182	35.07	6380	2.5					
	46	157	30.18	6130	2.9					
	51	140	26.97	5940	3.2					
	52	137	26.31	5900	3.3	**TR**	**58**	**MY**	**80N4**	144
	55	130	24.99*	5820	3.5	**TRF**	**58**	**MY**	**80N4**	145
	63	114	21.93	5610	4.0					
	74	97	18.60*	5350	4.7					
	20	355	68.54	3660	0.85	**TR**	**48**	**MY**	**80N4**	141
	21	335	64.21	4950	0.90	**TRF**	**48**	**MY**	**80N4**	142
	24	295	56.73	5450	1.00					
	26	275	52.69	5480	1.10	**TR**	**48**	**MY**	**80N4**	141
	29	250	47.75	5370	1.20	**TRF**	**48**	**MY**	**80N4**	142
	32	225	42.87	5240	1.35					
	37	192	36.93	5060	1.55					
	40	180	34.73	4980	1.65					
	46	155	29.88	4800	1.95					
	52	139	26.70	4660	2.2					
	58	122	23.59	4510	2.5					
	52	139	26.74	4660	2.2	**TR**	**48**	**MY**	**80N4**	141
	59	121	23.28	4490	2.5	**TRF**	**48**	**MY**	**80N4**	142
	63	113	21.81	4420	2.7					
	72	100	19.27	4270	3.0					
	77	93	17.89	4180	3.1					
	85	84	16.22	4070	3.3					
	29	250	48.08	2330	0.80	**TR**	**38**	**MY**	**80N4**	138
	31	235	44.81	4230	0.85	**TRF**	**38**	**MY**	**80N4**	139
	35	205	39.17	4720	1.00					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.75	38	191	36.72	4740	1.05	**TR 38 MY 80N4**	138
	43	168	32.40	4610	1.20	**TRF 38 MY 80N4**	139
	48	149	28.73	4490	1.35		
	57	127	24.42	4320	1.60		
	62	116	22.27	4230	1.75	**TR 38 MY 80N4**	138
	71	100	19.31	4080	2.0	**TRF 38 MY 80N4**	139
	76	94	18.05	4010	2.1		
	88	81	15.60	3850	2.5		
	104	69	13.25	3690	2.8		
	117	61	11.83	3570	3.0		
	137	53	10.11	3420	3.2		
	146	49	9.47	3360	3.4		
	48	149	28.78	2880	0.85	**TR 28 MY 80N4**	135
	56	127	24.47	2800	1.00	**TRF 28 MY 80N4**	136
	62	116	22.32	2750	1.10	**TR 28 MY 80N4**	135
	71	100	19.35	2670	1.30	**TRF 28 MY 80N4**	136
	76	94	18.08	2630	1.40		
	88	81	15.63	2550	1.60		
	104	69	13.28*	2450	1.90		
	116	62	11.86	2380	2.1		
	136	53	10.13	2290	2.3		
	147	49	9.41	2210	2.5		
	169	42	8.16	2130	2.7		
	181	40	7.63*	2090	2.8		
	209	34	6.59	2010	3.1		
	246	29	5.60*	1930	3.4		
	276	26	5.00*	1870	3.7		
	70	102	19.71	465	0.85	**TR 18 MY 80N4**	132
	81	88	16.99	1390	0.95	**TRF 18 MY 80N4**	133
	87	82	15.84	1380	1.05		
	100	72	13.84	1370	1.20		
	106	67	12.98	1360	1.25		
	121	59	11.45	1350	1.35		
	136	53	10.15	1320	1.45		
	160	45	8.63	1290	1.60		
	183	39	7.55	1200	1.45		
	196	37	7.04	1180	1.50		
	224	32	6.15	1160	1.70		
	239	30	5.76	1150	1.75		
	271	26	5.09	1120	1.95		
	306	23	4.51	1090	2.1		
	360	20	3.83	1060	2.3		
	236	30	11.45	1200	2.7	**TR 18 MY 80K2**	132
	266	27	10.15	1170	2.9	**TRF 18 MY 80K2**	133
	313	23	8.63	1130	3.1		
	358	20	7.55	1060	2.8		
	384	19	7.04	1040	2.9		
	439	16	6.15	1010	3.3		
	468	15	5.76	990	3.5		
	531	14	5.09	960	3.8		
	599	12	4.51	930	4.0		
	704	10	3.83	890	4.4		
	199	36	4.53	4260	2.3	**TRX 68 MY 90S6**	122
	209	34	4.30*	4200	2.3	**TRXF 68 MY 90S6**	123
	239	30	3.77	4040	2.9		
	281	26	3.20*	3840	3.9		
	267	27	5.18	3900	2.8	**TRX 68 MY 80N4**	122
	305	24	4.53	3750	3.5	**TRXF 68 MY 80N4**	123
	321	22	4.30*	3690	3.6		
	366	20	3.77	3540	4.4		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
0.75	431	17	3.20*	3360	6.0	**TRX 68** **MY 80N4**	122
	478	15	2.89	3260	7.1	**TRXF 68** **MY 80N4**	123
	543	13	2.54	3130	8.9		
	575	13	2.40*	3070	9.8		
	675	11	2.04	2920	13		
	743	9.6	1.86	2830	13		
	858	8.3	1.61	2700	14		
	238	30	3.79	3240	2.3	**TRX 58** **MY 90S6**	120
	254	28	3.55*	3180	2.4	**TRXF 58** **MY 90S6**	121
	287	25	3.14	3060	2.6		
	309	23	2.91	3000	2.9		
	341	21	2.64*	2910	3.3		
	317	23	4.35	2980	3.0	**TRX 58** **MY 80N4**	120
	364	20	3.79	2860	3.5	**TRXF 58** **MY 80N4**	121
	389	18	3.55*	2800	3.8		
	440	16	3.14	2700	4.0		
	474	15	2.91	2630	4.4		
	523	14	2.64*	2560	5.0		
	582	12	2.37	2470	5.6		
	676	11	2.04	2360	6.5		
	719	10	1.92*	2310	6.9		
	835	8.6	1.65	2210	8.0		
	935	7.7	1.48	2130	8.8		
	1060	6.8	1.30	2050	9.3		
1.1	0.53	17900	2657	120000	1.00	**TR 168 / TRF98** **MY 90S4**	166
	0.60	15600	2333	120000	1.15	**TRF 168 / TRF98** **MY 90S4**	166
	0.67	13800	2085	120000	1.30		
	0.75	12300	1877	120000	1.45		
	0.84	11000	1670	120000	1.65		
	0.97	9680	1438	120000	1.85		
	1.1	8620	1279	120000	2.1		
	1.2	7510	1123	120000	2.4		
	0.63	15300	2211	46800	0.85	**TR 148 / TRF78** **MY 90S4**	166
	0.72	13500	1951	61700	0.95	**TRF 148 / TRF78** **MY 90S4**	166
	0.82	11700	1705	65200	1.10		
	0.91	10500	1536	67100	1.25		
	1.1	9060	1329	69000	1.45		
	1.2	7920	1166	70400	1.65		
	1.4	6960	1029	71400	1.85		
	1.6	6030	889	72200	2.2		
	1.8	5300	784	72700	2.5		
	2.0	4680	695	73200	2.8		
	1.0	9610	1391	41900	0.85	**TR 138 / TRF78** **MY 90S4**	166
	1.1	8660	1256	51200	0.90	**TRF 138 / TRF78** **MY 90S4**	166
	1.3	7590	1105	54200	1.05		
	1.3	7160	1043	55100	1.10		
	1.6	6070	888	56900	1.30		
	1.0	9630	1397	41500	0.85	**TR 138 / TRF78** **MY 90S4**	166
	1.1	8420	1226	52200	0.95	**TRF 138 / TRF78** **MY 90S4**	166
	1.3	7510	1090	54400	1.05		
	1.5	6560	951	56100	1.20		
	1.7	5670	831	57500	1.40		
	1.9	4950	730	58500	1.60		
	2.2	4230	629	59300	1.90		
	2.5	3830	560	59700	2.1		
	2.9	3300	490	60100	2.4		
	1.9	4930	717	17300	0.85	**TR 108 / TRF78** **MY 90S4**	166
						TRF 108 / TRF78 **MY 90S4**	166
	2.3	4150	614	30200	1.05	**TR 108 / TRF78** **MY 90S4**	166
	2.6	3670	544	32500	1.15	**TRF 108 / TRF78** **MY 90S4**	166
	2.8	3310	492	33900	1.30		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
1.1	3.4	2810	417	35500	1.55	**TR 108 / TRF78 MY 90S4**	166
	3.8	2510	369	36200	1.70	**TRF 108 / TRF78 MY 90S4**	166
	4.3	2200	323	36600	1.95		
	4.9	1930	285	36800	2.2		
	5.5	1700	253	37100	2.5		
	3.2	2990	431	20300	1.00	**TR 98 / TRF58 MY 90S4**	166
	3.7	2620	379	23400	1.15	**TRF 98 / TRF58 MY 90S4**	166
	4.2	2330	336	24900	1.30		
	4.7	2050	296	26200	1.45		
	5.6	1710	249	27300	1.75		
	6.0	1590	234	27500	1.90		
	6.7	1430	209	27700	2.1		
	5.2	1840	268	11700	0.85	**TR 88 / TRF58 MY 90S4**	166
	5.9	1630	236	16400	0.95	**TRF 88 / TRF58 MY 90S4**	166
	6.7	1430	209	17700	1.10		
	5.5	1780	256	15100	0.85	**TR 88 / TRF58 MY 90S4**	166
	6.0	1610	232	16500	0.95	**TRF 88 / TRF58 MY 90S4**	166
	7.2	1370	195	18100	1.15		
	2.7	3940	251.15	31300	1.10	**TR 108 MY 100L8**	158
	2.9	3610	229.95	32700	1.20	**TRF 108 MY 100L8**	159
	3.3	3190	203.16	34300	1.35		
	3.9	2700	172.34	35800	1.60		
	3.6	2920	255.71	21500	1.05	**TR 98 MY 90L6**	156
	3.8	2750	241.25	22600	1.10	**TRF 98 MY 90L6**	157
	4.2	2470	216.28	24200	1.20		
	4.9	2130	186.30	25900	1.40		
	5.5	1920	255.71	26700	1.55	**TR 98 MY 90S4**	156
	5.8	1810	241.25	27100	1.65	**TRF 98 MY 90S4**	157
	6.5	1620	216.28	27500	1.85		
	7.5	1400	186.30	27800	2.2		
	8.2	1280	170.02	27900	2.4		
	9.3	1130	150.78	28100	2.7		
	11	950	126.75	28300	3.2		
	12	870	116.48	28300	3.4		
	6.5	1620	216.54	16400	0.95	**TR 88 MY 90S4**	153
	6.8	1540	205.71	17000	1.00	**TRF 88 MY 90S4**	154
	7.7	1360	181.77	18100	1.15		
	9.0	1170	155.34	19100	1.35	**TR 88 MY 90S4**	153
	9.8	1070	142.41	19600	1.45	**TRF 88 MY 90S4**	154
	11	940	124.97	20000	1.65		
	12	890	118.43*	20000	1.75		
	14	780	103.65	20000	2.0		
	15	700	93.38	20000	2.2		
	17	615	81.92	20000	2.5		
	19	545	72.57	20000	2.9		
	22	480	63.68*	20000	3.2		
	23	455	60.35*	20000	3.4		
	27	395	52.82	20000	3.9		
	12	910	121.42	8990	0.90	**TR 78 MY 90S4**	150
	14	775	102.99	10300	1.05	**TRF 78 MY 90S4**	151
	15	700	92.97	10900	1.20		
	17	615	81.80	11500	1.35	**TR 78 MY 90S4**	150
	18	580	77.24	11700	1.40	**TRF 78 MY 90S4**	151
	21	495	65.77	12100	1.65		
	24	435	57.68	12400	1.90		
	27	390	52.07	12500	2.1		
	31	345	45.81	12700	2.4		
	32	325	43.26	12700	2.5		
	38	275	36.83	12900	3.0		
	42	250	33.47	12900	3.3		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
1.1	16	645	86.11	6820	0.95	**TR**	**68**	**MY**	**90S4**	147
	19	555	74.17	8040	1.10	**TRF**	**68**	**MY**	**90S4**	148
	20	525	69.75	8370	1.15					
	23	460	61.26	8920	1.30					
	25	425	56.89	9160	1.40					
	27	385	51.56	9420	1.55					
	30	345	46.29	9650	1.75					
	35	300	39.88*	9890	1.95					
	37	280	37.50	9970	2.0					
	43	240	32.27	10100	2.2					
	49	215	28.83	10200	2.4					
	50	210	28.13	10200	2.6	**TR**	**68**	**MY**	**90S4**	147
	52	200	26.72	10100	2.7	**TRF**	**68**	**MY**	**90S4**	148
	60	176	23.44	9730	3.2					
	70	149	19.89	9270	4.0					
	20	520	69.23	5990	0.85	**TR**	**58**	**MY**	**90S4**	144
	22	485	64.85	6850	0.90	**TRF**	**58**	**MY**	**90S4**	145
	24	430	57.29	6700	1.05					
	26	400	53.22	6610	1.15	**TR**	**58**	**MY**	**90S4**	144
	29	360	48.23	6490	1.25	**TRF**	**58**	**MY**	**90S4**	145
	32	325	43.30	6350	1.40					
	38	280	37.30*	6140	1.60					
	40	265	35.07	6060	1.70					
	46	225	30.18	5850	2.0					
	52	200	26.97	5690	2.2					
	53	197	26.31	5650	2.3	**TR**	**58**	**MY**	**90S4**	144
	56	188	24.99*	5580	2.4	**TRF**	**58**	**MY**	**90S4**	145
	64	165	21.93	5400	2.7					
	75	140	18.60*	5170	3.2					
	83	126	16.79	5030	3.6					
	29	360	47.75	3500	0.85	**TR**	**48**	**MY**	**90S4**	141
	33	320	42.87	4850	0.95	**TRF**	**48**	**MY**	**90S4**	142
	38	275	36.93	4720	1.10					
	40	260	34.73	4660	1.15					
	47	225	29.88	4520	1.35					
	52	200	26.70	4410	1.50					
	59	177	23.59	4290	1.70					
	60	175	23.28	4270	1.70	**TR**	**48**	**MY**	**90S4**	141
	64	164	21.81	4210	1.85	**TRF**	**48**	**MY**	**90S4**	142
	73	145	19.27	4080	2.0					
	78	134	17.89	4010	2.2					
	86	122	16.22	3910	2.3					
	96	109	14.56	3800	2.4					
	112	94	12.54	3650	2.7					
	119	89	11.79	3590	2.8					
	138	76	10.15	3450	3.0					
	154	68	9.07	3340	3.2					
	43	245	32.40	2900	0.80	**TR**	**38**	**MY**	**90S4**	138
	49	215	28.73	3300	0.95	**TRF**	**38**	**MY**	**90S4**	139
	57	183	24.42	3720	1.10					
	73	145	19.31	3840	1.40	**TR**	**38**	**MY**	**90S4**	138
	78	135	18.05	3790	1.50	**TRF**	**38**	**MY**	**90S4**	139
	90	117	15.60	3660	1.70					
	106	99	13.25	3520	1.90	**TR**	**38**	**MY**	**90S4**	138
	118	89	11.83	3430	2.1	**TRF**	**38**	**MY**	**90S4**	139
	139	76	10.11	3290	2.2					
	148	71	9.47	3230	2.4					
	176	60	7.97	3090	2.6					
	210	50	6.67	2920	2.9					
	247	43	5.67	2790	3.3					
	277	38	5.06	2700	3.6					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
1.1	72	145	19.35	2430	0.90	**TR 28** **MY 90S4**	135
	77	136	18.08	2410	0.95	**TRF 28** **MY 90S4**	136
	90	117	15.63	2360	1.10		
	105	100	13.28*	2290	1.30		
	118	89	11.86	2240	1.45		
	138	76	10.13	2160	1.60		
	172	61	8.16	2010	1.90		
	184	57	7.63*	1980	1.95		
	212	50	6.59	1920	2.1		
	250	42	5.60*	1840	2.4		
	280	38	5.00*	1790	2.5		
	328	32	4.27	1720	2.7		
	350	30	4.00*	1690	2.8		
	415	25	3.37	1610	3.1		
	203	52	13.28*	1980	2.5	**TR 28** **MY 80N2**	135
	228	46	11.86	1920	2.8	**TRF 28** **MY 80N2**	136
	267	39	10.13	1840	3.1		
	287	37	9.41	1780	3.3		
	331	32	8.16	1720	3.7		
	354	30	7.63*	1690	3.8		
	410	26	6.59	1620	4.1		
	482	22	5.60*	1550	4.5		
	540	20	5.00*	1500	4.9		
	632	17	4.27	1430	5.2		
	675	16	4.00*	1410	5.5		
	801	13	3.37	1340	6.0		
	137	77	19.71	1150	1.10	**TR 18** **MY 80N2**	132
	159	66	16.99	1140	1.30	**TRF 18** **MY 80N2**	133
	170	62	15.84	1140	1.40		
	195	54	13.84	1120	1.60		
	208	51	12.98	1120	1.70		
	236	45	11.45	1100	1.80		
	266	40	10.15	1080	1.95		
	313	34	8.63	1050	2.1		
	358	29	7.55	970	1.90		
	384	27	7.04	960	2.0		
	439	24	6.15	940	2.3		
	468	22	5.76	930	2.4		
	531	20	5.09	910	2.6		
	599	18	4.51	880	2.7		
	704	15	3.83	850	3.0		
	249	42	5.63	5680	2.6	**TRX 78** **MY 90S4**	124
	262	40	5.35*	5590	2.6	**TRXF 78** **MY 90S4**	125
	296	36	4.73	5380	3.5		
	203	52	4.53	4130	1.60	**TRX 68** **MY 90L6**	122
	214	49	4.30*	4070	1.65	**TRXF 68** **MY 90L6**	123
	244	43	3.77	3920	2.0		
	309	34	4.53	3660	2.4	**TRX 68** **MY 90S4**	122
	326	32	4.30*	3610	2.5	**TRXF 68** **MY 90S4**	123
	371	28	3.77	3470	3.1		
	438	24	3.20*	3300	4.2		
	485	22	2.89	3200	4.9		
	551	19	2.54	3070	6.2		
	583	18	2.40*	3020	6.8		
	685	15	2.04	2870	8.8		
	754	14	1.86	2780	9.1		
	870	12	1.61	2660	9.4		
	1000	11	1.40*	2550	9.9		
	243	43	3.79	3120	1.60	**TRX 58** **MY 90L6**	120
	259	41	3.55*	3060	1.70	**TRXF 58** **MY 90L6**	121

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
1.1	293	36	3.14	2960	1.80	**TRX 58 MY 90L6**	120
	316	33	2.91	2900	2.0	**TRXF 58 MY 90L6**	121
	348	30	2.64*	2820	2.3		
	369	28	3.79	2780	2.4	**TRX 58 MY 90S4**	120
	394	27	3.55*	2730	2.6	**TRXF 58 MY 90S4**	121
	446	24	3.14	2630	2.8		
	481	22	2.91	2570	3.1		
	530	20	2.64*	2500	3.5		
	591	18	2.37	2420	3.9		
	686	15	2.04	2310	4.5		
	729	14	1.92*	2270	4.8		
	847	12	1.65	2160	5.6		
	948	11	1.48	2090	6.1		
	1075	9.8	1.30	2010	6.4		
1.5	0.60	21400	2333	120000	0.85	**TR 168 / TRF98 MY 90L4**	166
	0.68	19000	2085	120000	0.95	**TRF 168 / TRF98 MY 90L4**	166
	0.75	17000	1877	120000	1.05		
	0.84	15100	1670	120000	1.20		
	0.98	13300	1438	120000	1.35		
	1.1	11800	1279	120000	1.50		
	1.3	10300	1123	120000	1.75		
	1.4	9180	999	120000	1.95		
	3.3	3920	426	73600	3.3	**TR 148 / TRF88 MY 90L4**	166
	3.8	3380	368	73800	3.8	**TRF 148 / TRF88 MY 90L4**	166
	0.83	15900	1705	37900	0.80	**TR 148 / TRF78 MY 90L4**	166
	0.92	14300	1536	58600	0.90	**TRF 148 / TRF78 MY 90L4**	166
	1.1	12400	1329	63900	1.05		
	1.2	10800	1166	66500	1.20		
	1.4	9530	1029	68400	1.35		
	1.6	8250	889	70000	1.60		
	1.8	7260	784	71100	1.80		
	2.0	6420	695	71900	2.0		
	2.3	5780	619	72400	2.3		
	2.5	5200	558	72800	2.5		
	1.4	9770	1043	38800	0.80	**TR 138 / TRF78 MY 90L4**	166
	1.6	8290	888	52700	0.95	**TRF 138 / TRF78 MY 90L4**	166
	2.0	6500	699	56200	1.25		
	2.3	5640	609	57600	1.40		
	1.3	10200	1090	26100	0.80	**TR 138 / TRF78 MY 90L4**	166
	1.5	8940	951	49900	0.90	**TRF 138 / TRF78 MY 90L4**	166
	1.7	7750	831	53900	1.05		
	1.9	6770	730	55800	1.20		
	2.2	5800	629	57300	1.40		
	2.5	5230	560	58100	1.55		
	2.9	4530	490	59000	1.75		
	3.3	3950	428	59600	2.0		
	3.7	3560	381	59900	2.3		
	4.4	3020	323	60300	2.7		
	2.7	4900	528	18500	0.90	**TR 108 / TRF78 MY 90L4**	166
						TRF 108 / TRF78 MY 90L4	166
	2.6	5030	544	10400	0.85	**TR 108 / TRF78 MY 90L4**	166
	2.9	4550	492	28100	0.95	**TRF 108 / TRF78 MY 90L4**	166
	3.4	3850	417	31700	1.10		
	3.8	3440	369	33400	1.25		
	4.4	3000	323	34900	1.45		
	3.0	4470	469	28500	0.95	**TR 108 / TRF78 MY 90L4**	166
						TRF 108 / TRF78 MY 90L4	166
	4.2	3170	336	11300	0.95	**TR 98 / TRF58 MY 90L4**	166
	4.8	2790	296	22400	1.10	**TRF 98 / TRF58 MY 90L4**	166
	5.7	2330	249	24900	1.30		
	6.0	2180	234	25600	1.40		
	6.8	1950	209	26600	1.55		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
1.5	3.0	4710	229.95	26500	0.90	**TR 108** **MY 112M8**	158
	3.5	4160	203.16	30200	1.05	**TRF 108** **MY 112M8**	159
	4.1	3530	172.34	33100	1.20		
	4.4	3250	158.68	34100	1.30		
	3.7	3910	251.15	31400	1.10	**TR 108** **MY 100M6**	158
	4.0	3580	229.95	32900	1.20	**TRF 108** **MY 100M6**	159
	4.5	3160	203.16	34400	1.35		
	5.3	2680	172.34	35900	1.60		
	5.8	2470	158.68	36200	1.75		
	6.5	2210	141.83	36500	1.95		
	5.5	2600	255.71	23500	1.15	**TR 98** **MY 90L4**	156
	5.8	2450	241.25	24300	1.20	**TRF 98** **MY 90L4**	157
	6.5	2200	216.28	25600	1.35		
	7.6	1890	186.30	26800	1.60		
	8.3	1730	170.02	27300	1.75		
	9.3	1530	150.78	27600	1.95		
	11	1290	126.75	27900	2.3		
	12	1180	116.48	28000	2.5		
	14	1050	103.44	28200	2.9		
	15	940	92.48	28300	3.2		
	7.8	1850	181.77	11400	0.85	**TR 88** **MY 90L4**	153
	9.1	1580	155.34	16700	1.00	**TRF 88** **MY 90L4**	154
	9.9	1450	142.41	17600	1.05		
	11	1270	124.97	18600	1.20		
	12	1200	118.43*	19000	1.30		
	14	1050	103.65	19600	1.45		
	15	950	93.38	20000	1.65		
	17	830	81.92	20000	1.85		
	19	735	72.57	20000	2.1		
	22	645	63.68*	20000	2.4		
	23	615	60.35*	20000	2.5		
	27	535	52.82	20000	2.9		
	30	485	47.58	20000	3.2		
	34	425	41.74	20000	3.7		
	38	375	36.84*	19600	4.1		
	15	940	92.97	8500	0.85	**TR 78** **MY 90L4**	150
	17	830	81.80	9820	1.00	**TRF 78** **MY 90L4**	151
	18	785	77.24	10200	1.05		
	21	670	65.77	11100	1.25		
	24	585	57.68	11600	1.40		
	27	530	52.07	11900	1.55		
	31	465	45.81	12200	1.75		
	33	440	43.26	12300	1.85		
	38	375	36.83	12600	2.2		
	42	340	33.47	12700	2.4		
	49	295	29.00	12500	2.8		
	56	255	25.23	12000	3.0		
	60	240	23.37	11800	3.5	**TR 78** **MY 90L4**	150
	66	220	21.43	11500	3.8	**TRF 78** **MY 90L4**	151
	75	191	18.80	11000	4.1		
	23	620	61.26	7280	0.95	**TR 68** **MY 90L4**	147
	25	580	56.89	7810	1.05	**TRF 68** **MY 90L4**	148
	27	525	51.56	8370	1.15		
	30	470	46.29	8830	1.30		
	35	405	39.88*	9300	1.45		
	38	380	37.50	9460	1.50		
	44	330	32.27	9750	1.65		
	49	295	28.83	9920	1.80		
	50	285	28.13	9950	1.90	**TR 68** **MY 90L4**	147
	53	270	26.72	9850	2.0	**TRF 68** **MY 90L4**	148

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
1.5	60	240	23.44	9500	2.4	**TR**	**68**	**MY**	**90L4**	147
	71	200	19.89	9070	3.0	**TRF**	**68**	**MY**	**90L4**	148
	79	182	17.95	8810	3.2					
	27	540	53.22	5140	0.85	**TR**	**58**	**MY**	**90L4**	144
	29	490	48.23	6010	0.90	**TRF**	**58**	**MY**	**90L4**	145
	33	440	43.30	5920	1.00					
	38	380	37.30*	5770	1.20					
	40	355	35.07	5710	1.25					
	47	305	30.18	5540	1.45					
	52	275	26.97	5420	1.65					
	54	265	26.31	5390	1.70	**TR**	**58**	**MY**	**90L4**	144
	56	255	24.99*	5330	1.75	**TRF**	**58**	**MY**	**90L4**	145
	64	225	21.93	5170	2.0					
	76	189	18.60*	4980	2.4					
	84	171	16.79	4850	2.6					
	95	150	14.77*	4700	2.9					
	101	142	13.95*	4630	3.0					
	119	121	11.88	4440	3.4					
	38	375	36.93	2380	0.80	**TR**	**48**	**MY**	**90L4**	141
	41	355	34.73	3840	0.85	**TRF**	**48**	**MY**	**90L4**	142
	47	305	29.88	4220	1.00					
	53	270	26.70	4140	1.10					
	60	240	23.59	4050	1.25					
	61	235	23.28	4040	1.25	**TR**	**48**	**MY**	**90L4**	141
	65	220	21.81	3990	1.35	**TRF**	**48**	**MY**	**90L4**	142
	73	196	19.27	3890	1.50					
	79	182	17.89	3830	1.60					
	87	165	16.22	3740	1.65					
	97	148	14.56	3650	1.80					
	112	127	12.54	3520	1.95					
	120	120	11.79	3470	2.1					
	139	103	10.15	3340	2.2					
	155	92	9.07	3240	2.4					
	176	81	8.01	3140	2.5					
	182	79	7.76*	3060	2.1					
	203	71	6.96	2980	2.3					
	235	61	6.00	2860	2.6					
	250	57	5.64*	2810	2.7					
	291	49	4.85	2700	3.0					
	325	44	4.34	2610	3.3					
	368	39	3.83	2520	3.7					
	73	196	19.31	2660	1.00	**TR**	**38**	**MY**	**90L4**	138
	78	183	18.05	2840	1.10	**TRF**	**38**	**MY**	**90L4**	139
	90	159	15.60	3160	1.25					
	106	135	13.25	3350	1.40					
	119	120	11.83	3270	1.50					
	140	103	10.11	3160	1.65					
	149	96	9.47	3110	1.75					
	177	81	7.97	2980	1.95					
	211	68	6.67	2820	2.1					
	249	58	5.67	2710	2.5					
	279	51	5.06	2630	2.6					
	326	44	4.32	2520	2.9					
	348	41	4.05	2470	3.0					
	414	35	3.41	2360	3.2					
	211	68	13.25	2850	2.8	**TR**	**38**	**MY**	**90S2**	138
	237	61	11.83	2770	3.0	**TRF**	**38**	**MY**	**90S2**	139
	277	52	10.11	2650	3.3					
	296	48	9.47	2610	3.5					
	351	41	7.97	2480	3.8					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
1.5	90	159	15.63	1700	0.80	**TR 28** **MY 90L4**	135
	106	135	13.28*	2020	0.95	**TRF 28** **MY 90L4**	136
	119	121	11.86	2080	1.05		
	139	103	10.13	2030	1.20		
	173	83	8.16	1880	1.40		
	185	78	7.63*	1860	1.45		
	214	67	6.59	1810	1.60		
	252	57	5.60*	1750	1.75		
	282	51	5.00*	1710	1.85		
	330	43	4.27	1650	2.0		
	353	41	4.00*	1630	2.1		
	418	34	3.37	1560	2.3		
	236	61	11.86	1820	2.1	**TR 28** **MY 90S2**	135
	276	52	10.13	1760	2.4	**TRF 28** **MY 90S2**	136
	343	42	8.16	1640	2.8		
	367	39	7.63*	1610	2.9		
	425	34	6.59	1550	3.2		
	500	29	5.60*	1490	3.5		
	560	26	5.00*	1450	3.7		
	656	22	4.27	1390	4.0		
	700	21	4.00*	1360	4.2		
	831	17	3.37	1300	4.6		
	250	57	5.63	5580	1.90	**TRX 78** **MY 90L4**	124
	264	54	5.35*	5490	1.90	**TRXF 78** **MY 90L4**	125
	298	48	4.73	5300	2.6		
	349	41	4.04*	5050	3.5		
	381	38	3.70	4920	4.1		
	434	33	3.25*	4720	5.5		
	458	31	3.08*	4650	6.2		
	523	27	2.70	4460	7.9		
	581	25	2.43	4310	8.7		
	312	46	4.53	3570	1.80	**TRX 68** **MY 90L4**	122
	328	44	4.30*	3520	1.85	**TRXF 68** **MY 90L4**	123
	374	38	3.77	3390	2.3		
	441	33	3.20*	3230	3.1		
	488	29	2.89	3140	3.6		
	555	26	2.54	3020	4.6		
	588	24	2.40*	2970	5.0		
	690	21	2.04	2820	6.4		
	759	19	1.86	2740	6.7		
	876	16	1.61	2620	7.0		
	1005	14	1.40*	2510	7.3		
	372	39	3.79	2700	1.80	**TRX 58** **MY 90L4**	120
	397	36	3.55*	2650	1.90	**TRXF 58** **MY 90L4**	121
	450	32	3.14	2560	2.0		
	484	30	2.91	2510	2.3		
	534	27	2.64*	2440	2.6		
	595	24	2.37	2360	2.9		
	691	21	2.04	2260	3.3		
	734	20	1.92*	2220	3.5		
	853	17	1.65	2120	4.1		
	955	15	1.48	2050	4.5		
	1080	13	1.30	1980	4.7		
2.2	0.84	22600	1670	120000	0.80	**TR 168 / TRF98** **MY 100M4**	166
	0.98	19700	1438	120000	0.90	**TRF 168 / TRF98** **MY 100M4**	166
	1.1	17500	1279	120000	1.05		
	1.3	15300	1123	120000	1.15		
	1.4	13600	999	120000	1.30		
	1.6	11800	861	120000	1.55		
	1.9	10400	760	120000	1.75		
	2.1	8730	656	120000	2.1		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
2.2	2.6	7200	533	71100	1.80	**TR**	**148 / TRF88**	**MY**	**100M4**	166
	3.1	6190	462	72100	2.1	**TRF**	**148 / TRF88**	**MY**	**100M4**	166
	3.3	5820	426	72400	2.2					
	3.8	5030	368	72900	2.6					
	4.3	4450	326	73300	2.9					
	1.2	16000	1166	36000	0.80	**TR**	**148 / TRF78**	**MY**	**100M4**	166
	1.4	14100	1029	60300	0.90	**TRF**	**148 / TRF78**	**MY**	**100M4**	166
	1.6	12200	889	64200	1.05					
	1.8	10800	784	66600	1.20					
	2.0	9520	695	68500	1.35					
	2.3	8550	619	69700	1.50					
	2.5	7690	558	70600	1.70					
	2.9	6730	489	71600	1.95					
	2.0	9620	699	41800	0.85	**TR**	**138 / TRF78**	**MY**	**100M4**	166
	2.3	8350	609	52500	0.95	**TRF**	**138 / TRF78**	**MY**	**100M4**	166
	1.9	10000	730	33300	0.80	**TR**	**138 / TRF78**	**MY**	**100M4**	166
	2.2	8610	629	51400	0.95	**TRF**	**138 / TRF78**	**MY**	**100M4**	166
	2.5	7730	560	54000	1.05					
	2.9	6720	490	55900	1.20					
	3.3	5860	428	57200	1.35					
	3.7	5260	381	58100	1.50					
	4.4	4460	323	59000	1.80					
	4.8	4020	291	59500	2.0					
	5.5	3510	255	59900	2.3					
	6.3	3070	223	60300	2.6					
	4.4	4450	323	28600	0.95	**TR**	**108 / TRF78**	**MY**	**100M4**	166
	4.9	3920	285	31400	1.10	**TRF**	**108 / TRF78**	**MY**	**100M4**	166
	5.6	3470	253	33300	1.25					
	6.6	2940	214	35100	1.45					
	4.4	4540	325	28100	0.95	**TR**	**108 / TRF78**	**MY**	**100M4**	166
						TRF	**108 / TRF78**	**MY**	**100M4**	166
	6.8	2880	209	21800	1.05	**TR**	**98 / TRF58**	**MY**	**100M4**	166
						TRF	**98 / TRF58**	**MY**	**100M4**	166
	3.1	6680	222.60*	55900	1.20	**TR**	**138**	**MY**	**132S8**	160
	3.7	5660	188.45	57500	1.40	**TRF**	**138**	**MY**	**132S8**	161
	4.0	5230	174.40*	58100	1.55					
	4.5	4690	156.31	58800	1.70					
	5.0	4240	141.12*	59300	1.90					
	5.5	3850	128.18	59600	2.1	**TR**	**138**	**MY**	**132S8**	160
	6.2	3410	113.72	60000	2.3	**TRF**	**138**	**MY**	**132S8**	161
	6.8	3100	103.20*	60300	2.6					
	4.6	4540	203.16	28100	0.95	**TR**	**108**	**MY**	**112M6**	158
	5.5	3850	172.34	31700	1.10	**TRF**	**108**	**MY**	**112M6**	159
	5.9	3550	158.68	33000	1.20					
	6.6	3170	141.83	34400	1.35					
	5.6	3740	251.15	32200	1.15	**TR**	**108**	**MY**	**100M4**	158
	6.1	3430	229.95	33500	1.25	**TRF**	**108**	**MY**	**100M4**	159
	6.9	3030	203.16	34900	1.40					
	8.2	2570	172.34	36100	1.65	**TR**	**108**	**MY**	**100M4**	158
	8.9	2360	158.68	36300	1.80	**TRF**	**108**	**MY**	**100M4**	159
	9.9	2110	141.83	36600	2.0					
	11	1900	127.68	36900	2.3					
	12	1720	115.63	37000	2.5					
	14	1530	102.53	37200	2.8					
	15	1380	92.70	37300	3.1					
	6.5	3220	216.28	7030	0.95	**TR**	**98**	**MY**	**100M4**	156
	7.6	2780	186.30	22500	1.10	**TRF**	**98**	**MY**	**100M4**	157
	8.3	2530	170.02	23900	1.20					
	9.3	2250	150.78	25300	1.35	**TR**	**98**	**MY**	**100M4**	156
	11	1890	126.75	26800	1.60	**TRF**	**98**	**MY**	**100M4**	157
	12	1740	116.48	27300	1.75					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
2.2	14	1540	103.44	27600	1.95	**TR 98 MY 100M4**	156
	15	1380	92.48	27800	2.2	**TRF 98 MY 100M4**	157
	17	1240	83.15	28000	2.4		
	20	1080	72.17	28200	2.8		
	22	970	65.21	27700	3.1		
	24	890	59.92	27000	3.4		
	27	795	53.21	26100	3.8		
	30	710	47.58	25300	4.2		
	11	1860	124.97	10100	0.85	**TR 88 MY 100M4**	153
	12	1760	118.43*	15200	0.90	**TRF 88 MY 100M4**	154
	14	1540	103.65	17000	1.00		
	15	1390	93.38	17900	1.10		
	17	1220	81.92	18900	1.25		
	19	1080	72.57	19500	1.45	**TR 88 MY 100M4**	153
	22	950	63.68*	20000	1.65	**TRF 88 MY 100M4**	154
	23	900	60.35*	20000	1.70		
	27	785	52.82	20000	1.95		
	30	710	47.58	20000	2.2		
	34	620	41.74	19900	2.5		
	38	550	36.84*	19200	2.8		
	43	485	32.66*	18500	3.2		
	41	515	34.40*	18800	2.9	**TR 88 MY 100M4**	153
	45	470	31.40	18300	3.3	**TRF 88 MY 100M4**	154
	51	415	27.84*	17700	3.7		
	60	350	23.40	16800	4.5		
	66	320	21.51	16400	4.7		
	21	980	65.77	5470	0.85	**TR 78 MY 100M4**	150
	24	860	57.68	9540	0.95	**TRF 78 MY 100M4**	151
	27	775	52.07	10300	1.05		
	31	685	45.81	11000	1.20		
	33	645	43.26	11300	1.25		
	38	550	36.83	11800	1.50		
	42	500	33.47	12100	1.65		
	49	430	29.00	12100	1.90		
	56	375	25.23	11700	2.1		
	60	350	23.37	11400	2.4	**TR 78 MY 100M4**	150
	66	320	21.43	11200	2.6	**TRF 78 MY 100M4**	151
	75	280	18.80	10800	2.8		
	79	265	17.82*	10600	2.9		
	90	230	15.60	10200	3.2		
	100	210	14.05	9910	3.4		
	35	595	39.88*	7630	1.00	**TR 68 MY 100M4**	147
	38	560	37.50	8020	1.00	**TRF 68 MY 100M4**	148
	44	480	32.27	8750	1.10		
	49	430	28.83	9140	1.20		
	60	350	23.44	9140	1.60	**TR 68 MY 100M4**	147
	71	295	19.89	8760	2.0	**TRF 68 MY 100M4**	148
	79	270	17.95	8530	2.2		
	89	235	15.79	8240	2.4		
	95	220	14.91	8110	2.5		
	111	189	12.70	7760	2.8		
	122	172	11.54	7560	2.9		
	141	149	10.00	7250	3.2		
	162	130	8.70*	6960	3.4		
	181	116	7.79	6760	3.3		
	38	555	37.30*	4490	0.80	**TR 58 MY 100M4**	144
	40	525	35.07	5110	0.85	**TRF 58 MY 100M4**	145
	47	450	30.18	5030	1.00		
	52	400	26.97	4960	1.10		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
2.2	64	325	21.93	4800	1.40	**TR**	**58**	**MY**	**100M4**	144
	76	275	18.60*	4660	1.60	**TRF**	**58**	**MY**	**100M4**	145
	84	250	16.79	4570	1.80					
	95	220	14.77*	4450	2.0					
	101	210	13.95*	4390	2.1					
	119	177	11.88	4230	2.3					
	131	161	10.79	4140	2.4					
	151	139	9.35	4000	2.7					
	156	135	9.06	3980	2.8					
	177	119	7.97	3850	3.0					
	107	197	26.31	4340	2.3	**TR**	**58**	**MY**	**90L2**	144
	112	187	24.99*	4290	2.4	**TRF**	**58**	**MY**	**90L2**	145
	128	164	21.93	4160	2.8					
	151	139	18.60*	3990	3.2					
	167	126	16.79	3890	3.6					
	190	111	14.77*	3760	3.9					
	201	104	13.95*	3710	4.1					
	73	285	19.27	3550	1.05	**TR**	**48**	**MY**	**100M4**	141
	87	240	16.22	3460	1.15	**TRF**	**48**	**MY**	**100M4**	142
	97	215	14.56	3400	1.20					
	112	187	12.54	3310	1.35					
	120	176	11.79	3270	1.40					
	139	151	10.15	3160	1.50					
	155	135	9.07	3090	1.65					
	176	119	8.01	3000	1.70					
	182	116	7.76*	2910	1.40					
	203	104	6.96	2840	1.55					
	235	89	6.00	2740	1.75					
	250	84	5.64*	2700	1.85					
	291	72	4.85	2600	2.1					
	325	65	4.34	2530	2.3					
	368	57	3.83	2440	2.5					
	121	174	23.28	3260	1.70	**TR**	**48**	**MY**	**90L2**	141
	129	163	21.81	3220	1.85	**TRF**	**48**	**MY**	**90L2**	142
	146	144	19.27	3130	2.1					
	157	134	17.89	3080	2.2					
	173	121	16.22	3010	2.3					
	193	109	14.56	2930	2.4					
	224	94	12.54	2830	2.7					
	238	88	11.79	2780	2.8					
	277	76	10.15	2680	3.0					
	310	68	9.07	2600	3.2					
	351	60	8.01	2510	3.4					
	90	230	15.60	1070	0.85	**TR**	**38**	**MY**	**100M4**	138
	106	198	13.25	1660	0.95	**TRF**	**38**	**MY**	**100M4**	139
	119	176	11.83	1990	1.05					
	140	151	10.11	2360	1.15					
	149	141	9.47	2480	1.20					
	177	119	7.97	2750	1.30					
	211	99	6.67	2470	1.45					
	249	84	5.67	2570	1.70					
	279	75	5.06	2500	1.80					
	326	64	4.32	2410	1.95					
	348	60	4.05	2370	2.0					
	414	51	3.41	2270	2.2					
	146	144	19.31	2440	1.40	**TR**	**38**	**MY**	**90L2**	138
	156	135	18.05	2560	1.50	**TRF**	**38**	**MY**	**90L2**	139
	180	117	15.60	2780	1.70					
	212	99	13.25	2700	1.90					
	237	89	11.83	2630	2.1					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
2.2	278	76	10.11	2540	2.3	**TR 38 MY 90L2**	138
	297	71	9.47	2500	2.4	**TRF 38 MY 90L2**	139
	352	60	7.97	2390	2.6		
	421	50	6.67	2260	2.9		
	496	42	5.67	2170	3.4		
	555	38	5.06	2100	3.6		
	650	32	4.32	2010	3.9		
	694	30	4.05	1980	4.0		
	824	26	3.41	1880	4.4		
	139	151	10.13	1120	0.80	**TR 28 MY 100M4**	135
	214	98	6.59	1130	1.10	**TRF 28 MY 100M4**	136
	252	83	5.60*	1390	1.20		
	282	75	5.00*	1540	1.30		
	330	64	4.27	1540	1.35		
	353	60	4.00*	1520	1.45		
	418	50	3.37	1470	1.55		
	212	99	13.28*	1710	1.30	**TR 28 MY 90L2**	135
	237	89	11.86	1680	1.45	**TRF 28 MY 90L2**	136
	277	76	10.13	1640	1.60		
	344	61	8.16	1520	1.90		
	369	57	7.63*	1500	1.95		
	426	49	6.59	1460	2.2		
	502	42	5.60*	1410	2.4		
	562	37	5.00*	1380	2.5		
	658	32	4.27	1330	2.7		
	703	30	4.00*	1310	2.8		
	834	25	3.37	1250	3.1		
	298	70	4.73	5180	1.75	**TRX 78 MY 100M4**	124
	349	60	4.04*	4950	2.4	**TRXF 78 MY 100M4**	125
	381	55	3.70	4820	2.8		
	434	48	3.25*	4640	3.8		
	458	46	3.08*	4560	4.2		
	523	40	2.70	4380	5.4		
	581	36	2.43	4250	5.9		
	662	32	2.13	4080	6.3		
	750	28	1.88*	3920	6.7		
	846	25	1.67	3780	7.0		
	991	21	1.42	3590	7.3		
	374	56	3.77	3280	1.55	**TRX 68 MY 100M4**	122
	441	48	3.20*	3130	2.1	**TRXF 68 MY 100M4**	123
	488	43	2.89	3050	2.5		
	555	38	2.54	2940	3.1		
	588	36	2.40*	2890	3.4		
	690	30	2.04	2760	4.4		
	759	28	1.86	2680	4.6		
	876	24	1.61	2570	4.8		
	1005	21	1.40*	2460	5.0		
	450	47	3.14	2450	1.40	**TRX 58 MY 100M4**	120
	534	39	2.64*	2340	1.75	**TRXF 58 MY 100M4**	121
	595	35	2.37	2280	1.95		
	691	30	2.04	2190	2.3		
	734	29	1.92*	2150	2.4		
	853	25	1.65	2060	2.8		
	955	22	1.48	1990	3.1		
	1080	19	1.30	1930	3.3		
3	1.2	21200	1123	120000	0.85	**TR 168 / TRF98 MY 100L4**	166
	1.4	18900	999	120000	0.95	**TRF 168 / TRF98 MY 100L4**	166
	1.6	16300	861	120000	1.10		
	1.8	14400	760	120000	1.25		
	2.1	12200	656	120000	1.50		
	2.8	9330	503	120000	1.95		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
3	2.6	9990	533	67800	1.30	**TR**	**148 / TRF88**	**MY**	**100L4**	166
	3.0	8610	462	69600	1.50	**TRF**	**148 / TRF88**	**MY**	**100L4**	166
	3.3	8060	426	70200	1.60					
	3.8	6960	368	71400	1.85					
	4.3	6150	326	72100	2.1					
	5.0	5230	280	72800	2.5					
	1.6	16900	889	21900	0.75	**TR**	**148 / TRF78**	**MY**	**100L4**	166
	1.8	14900	784	52000	0.85	**TRF**	**148 / TRF78**	**MY**	**100L4**	166
	2.0	13200	695	62300	1.00					
	2.3	11800	619	64900	1.10					
	2.5	10600	558	66900	1.20					
	2.9	9280	490	48100	0.85	**TR**	**138 / TRF78**	**MY**	**100L4**	166
	3.3	8100	428	53200	1.00	**TRF**	**138 / TRF78**	**MY**	**100L4**	166
	3.7	7260	381	54900	1.10					
	4.3	6160	323	56800	1.30					
	4.8	5540	291	57700	1.45					
	5.5	4840	255	58600	1.65					
	6.3	4240	223	59300	1.90					
	2.7	9990	517	34100	0.80	**TR**	**138 / TRF78**	**MY**	**100L4**	166
	3.1	8760	453	50700	0.90	**TRF**	**138 / TRF78**	**MY**	**100L4**	166
	5.5	4790	253	23500	0.90	**TR**	**108 / TRF78**	**MY**	**100L4**	166
	6.5	4060	214	30700	1.05	**TRF**	**108 / TRF78**	**MY**	**100L4**	166
	7.5	3550	187	33000	1.20					
	5.5	4930	256	17400	0.85	**TR**	**108 / TRF78**	**MY**	**100L4**	166
						TRF	**108 / TRF78**	**MY**	**100L4**	166
	3.2	8860	222.60*	50300	0.90	**TR**	**138**	**MY**	**132M8**	160
	3.8	7500	188.45	54400	1.05	**TRF**	**138**	**MY**	**132M8**	161
	4.1	6940	174.40*	55500	1.15					
	4.6	6220	156.31	56700	1.30					
	5.1	5620	141.12*	57600	1.40					
	5.6	5100	128.18	58300	1.55	**TR**	**138**	**MY**	**132M8**	160
	6.3	4520	113.72	59000	1.75	**TRF**	**138**	**MY**	**132M8**	161
	7.0	4110	103.20*	59400	1.95					
	8.1	3530	88.70*	59900	2.3					
	4.2	6780	222.60*	55800	1.20	**TR**	**138**	**MY**	**132S6**	160
	5.0	5740	188.45	57400	1.40	**TRF**	**138**	**MY**	**132S6**	161
	5.4	5320	174.40*	58000	1.50					
	6.0	4760	156.31	58700	1.70					
	6.7	4300	141.12*	59200	1.85					
	7.3	3910	128.18	59600	2.1					
	8.3	3470	113.72	60000	2.3					
	9.1	3150	103.20*	60200	2.5					
	5.9	4840	158.68	21600	0.90	**TR**	**108**	**MY**	**132S6**	158
	6.6	4320	141.83	29300	1.00	**TRF**	**108**	**MY**	**132S6**	159
	7.4	3890	127.68	31500	1.10					
	6.1	4710	229.95	26500	0.90	**TR**	**108**	**MY**	**100L4**	158
	6.9	4160	203.16	30200	1.05	**TRF**	**108**	**MY**	**100L4**	159
	8.1	3530	172.34	33100	1.20					
	8.8	3250	158.68	34100	1.30					
	9.9	2900	141.83	35300	1.50					
	11	2610	127.68	36000	1.65					
	12	2370	115.63	36300	1.80					
	14	2100	102.53	36700	2.1					
	15	1900	92.70	36900	2.3					
	18	1610	78.57	35900	2.7					
	19	1490	72.88	35200	2.9					
	9.3	3090	150.78	16200	0.95	**TR**	**98**	**MY**	**100L4**	156
	11	2590	126.75	23600	1.15	**TRF**	**98**	**MY**	**100L4**	157
	12	2380	116.48	24700	1.25					
	14	2120	103.44	25900	1.40					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
3	15	1890	92.48	26800	1.60	**TR 98 MY 100L4**	156
	17	1700	83.15	27300	1.75	**TRF 98 MY 100L4**	157
	19	1480	72.17	27700	2.0		
	21	1330	65.21	27000	2.3		
	23	1230	59.92	26400	2.5		
	26	1090	53.21	25600	2.8		
	29	970	47.58	24800	3.1		
	33	880	42.78	24000	3.4		
	38	760	37.13	23100	4.0		
	42	680	33.25	22400	4.3		
	15	1910	93.38	3630	0.80	**TR 88 MY 100L4**	153
	17	1680	81.92	16000	0.90	**TRF 88 MY 100L4**	154
	19	1490	72.57	17400	1.05		
	22	1300	63.68*	18400	1.20		
	23	1230	60.35*	18800	1.25	**TR 88 MY 100L4**	153
	27	1080	52.82	19500	1.45	**TRF 88 MY 100L4**	154
	29	970	47.58	19900	1.60		
	34	850	41.74	19400	1.80		
	38	755	36.84*	18700	2.1		
	43	670	32.66*	18100	2.3		
	50	570	27.88	17400	2.6		
	41	705	34.40*	18400	2.1	**TR 88 MY 100L4**	153
	45	640	31.40	17900	2.4	**TRF 88 MY 100L4**	154
	50	570	27.84*	17400	2.7		
	60	480	23.40	16500	3.2		
	65	440	21.51	16100	3.4		
	73	390	19.10	15600	3.7		
	82	350	17.08*	15100	4.0		
	91	315	15.35	14600	4.3		
	31	940	45.81	8670	0.85	**TR 78 MY 100L4**	150
	32	890	43.26	9270	0.95	**TRF 78 MY 100L4**	151
	38	755	36.83	10500	1.10		
	42	685	33.47	11000	1.20		
	48	595	29.00	11600	1.40	**TR 78 MY 100L4**	150
	55	515	25.23	11300	1.50	**TRF 78 MY 100L4**	151
	60	480	23.37	11100	1.70	**TR 78 MY 100L4**	150
	65	440	21.43	10800	1.85	**TRF 78 MY 100L4**	151
	74	385	18.80	10500	2.0		
	79	365	17.82*	10300	2.1		
	90	320	15.60	9980	2.3		
	100	290	14.05	9700	2.5		
	114	250	12.33	9350	2.7		
	129	225	10.88	9030	3.0		
	145	197	9.64	8720	3.2		
	163	176	8.59	8500	3.6		
	181	158	7.74	8240	3.9		
	206	139	6.79	7920	4.2		
	60	480	23.44	8730	1.15	**TR 68 MY 100L4**	147
	70	405	19.89	8420	1.45	**TRF 68 MY 100L4**	148
	78	365	17.95	8230	1.60		
	89	325	15.79	7980	1.75		
	94	305	14.91	7860	1.80		
	110	260	12.70	7550	2.0		
	121	235	11.54	7360	2.1		
	140	205	10.00	7090	2.3		
	52	550	26.97	4330	0.80	**TR 58 MY 100L4**	144
						TRF 58 MY 100L4	145
	64	450	21.93	4380	1.00	**TR 58 MY 100L4**	144
	75	380	18.60*	4300	1.20	**TRF 58 MY 100L4**	145
	83	345	16.79	4250	1.30		
	95	300	14.77*	4160	1.45		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
3	100	285	13.95*	4130	1.50	**TR**	**58**	**MY**	**100L4**	144
	118	245	11.88	4010	1.65	**TRF**	**58**	**MY**	**100L4**	145
	130	220	10.79	3940	1.75					
	150	191	9.35	3820	1.95					
	155	185	9.06	3810	2.0					
	176	163	7.97	3700	2.2					
	186	154	7.53	3650	2.3					
	218	131	6.41	3520	2.6					
	240	119	5.82	3430	2.7					
	277	103	5.05	3310	3.0					
	319	90	4.39	3190	3.1					
	128	225	21.93	3950	2.0	**TR**	**58**	**MY**	**100M2**	144
	151	190	18.60*	3820	2.4	**TRF**	**58**	**MY**	**100M2**	145
	167	172	16.79	3730	2.6					
	190	151	14.77*	3620	2.9					
	201	143	13.95*	3570	3.0					
	236	122	11.88	3440	3.3					
	259	110	10.79	3360	3.5					
	86	330	16.22	2030	0.85	**TR**	**48**	**MY**	**100L4**	141
	96	300	14.56	2500	0.90	**TRF**	**48**	**MY**	**100L4**	142
	112	255	12.54	3040	0.95					
	119	240	11.79	3040	1.00					
	138	210	10.15	2970	1.10					
	154	186	9.07	2910	1.20					
	175	164	8.01	2840	1.25					
	181	159	7.76*	2740	1.05					
	201	143	6.96	2680	1.10					
	233	123	6.00	2610	1.25					
	248	115	5.64*	2580	1.35					
	288	99	4.85	2490	1.50					
	323	89	4.34	2430	1.65					
	365	78	3.83	2360	1.85					
	237	121	11.79	2670	2.0	**TR**	**48**	**MY**	**100M2**	141
	276	104	10.15	2580	2.2	**TRF**	**48**	**MY**	**100M2**	142
	309	93	9.07	2510	2.4					
	349	82	8.01	2430	2.5					
	361	79	7.76*	2370	2.1					
	402	71	6.96	2310	2.2					
	467	61	6.00	2220	2.5					
	496	58	5.64*	2190	2.7					
	577	50	4.85	2100	3.0					
	646	44	4.34	2040	3.3					
	731	39	3.83	1970	3.7					
	139	205	10.11	780	0.80	**TR**	**38**	**MY**	**100L4**	138
	148	194	9.47	1010	0.85	**TRF**	**38**	**MY**	**100L4**	139
	176	163	7.97	1510	0.95					
	210	137	6.67	1250	1.05					
	247	116	5.67	1630	1.25					
	277	104	5.06	1830	1.30					
	324	88	4.32	2070	1.45					
	346	83	4.05	2140	1.45					
	411	70	3.41	2180	1.60					
	277	103	10.11	2340	1.65	**TR**	**38**	**MY**	**100M2**	138
	296	97	9.47	2380	1.70	**TRF**	**38**	**MY**	**100M2**	139
	351	82	7.97	2290	1.90					
	420	68	6.67	2170	2.1					
	494	58	5.67	2090	2.5					
	553	52	5.06	2030	2.6					
	648	44	4.32	1950	2.9					
	692	41	4.05	1920	3.0					
	821	35	3.41	1840	3.2					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
3	250	115	5.60*	360	0.85	**TR 28 MY 100L4**	135
	280	102	5.00*	615	0.95	**TRF 28 MY 100L4**	136
	328	87	4.27	910	1.00		
	350	82	4.00*	1010	1.05		
	415	69	3.37	1230	1.15		
	425	67	6.59	1260	1.55	**TR 28 MY 100M2**	135
	500	57	5.60*	1330	1.75	**TRF 28 MY 100M2**	136
	560	51	5.00*	1300	1.85		
	656	44	4.27	1260	2.0		
	700	41	4.00*	1240	2.1		
	831	35	3.37	1200	2.3		
	217	132	6.45	7130	1.45	**TRX 88 MY 100L4**	126
	252	114	5.56*	6830	2.0	**TRXF 88 MY 100L4**	127
	276	104	5.07	6650	2.4		
	311	92	4.50*	6430	3.2		
	370	77	3.78	6100	3.9		
	296	97	4.73	5050	1.25	**TRX 78 MY 100L4**	124
	347	83	4.04*	4830	1.75	**TRXF 78 MY 100L4**	125
	378	76	3.70	4720	2.0		
	431	67	3.25*	4550	2.7		
	455	63	3.08*	4480	3.1		
	371	77	3.77	3150	1.15	**TRX 68 MY 100L4**	122
	438	66	3.20*	3030	1.55	**TRXF 68 MY 100L4**	123
	485	59	2.89	2950	1.80		
	551	52	2.54	2850	2.3		
	583	49	2.40*	2810	2.5		
	685	42	2.04	2690	3.2		
	754	38	1.86	2610	3.3		
	870	33	1.61	2510	3.5		
	1000	29	1.40*	2410	3.6		
	446	64	3.14	2330	1.00	**TRX 58 MY 100L4**	120
	530	54	2.64*	2240	1.30	**TRXF 58 MY 100L4**	121
	591	49	2.37	2180	1.40		
	686	42	2.04	2100	1.65		
	729	39	1.92*	2070	1.75		
	847	34	1.65	1990	2.0		
	948	30	1.48	1930	2.3		
	1075	27	1.30	1870	2.4		
4	1.7	21500	861	120000	0.85	**TR 168 / TRF98 MY 112M4**	166
	1.9	19000	760	120000	0.95	**TRF 168 / TRF98 MY 112M4**	166
	2.2	16100	656	120000	1.10		
	2.8	12400	503	120000	1.45		
	3.8	9260	376	120000	1.95		
	4.2	8240	335	120000	2.2		
	2.7	13200	533	62200	1.00	**TR 148 / TRF88 MY 112M4**	166
	3.1	11400	462	65600	1.15	**TRF 148 / TRF88 MY 112M4**	166
	3.3	10600	426	66800	1.20		
	3.9	9190	368	68900	1.40		
	4.4	8130	326	70200	1.60		
	5.1	6920	280	71400	1.90		
	5.7	6110	247	72100	2.1		
	6.7	5280	214	72800	2.5		
	7.5	4670	189	73200	2.8		
	9.0	3920	159	73600	3.3		
	2.3	15500	619	43200	0.85	**TR 148 / TRF78 MY 112M4**	166
	2.5	14000	558	60500	0.95	**TRF 148 / TRF78 MY 112M4**	166
	2.9	12300	489	64100	1.05		
	3.4	10400	415	67200	1.25		
	3.7	9570	381	42700	0.85	**TR 138 / TRF78 MY 112M4**	166
	4.4	8120	323	53100	1.00	**TRF 138 / TRF78 MY 112M4**	166

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
4	4.9	7310	291	54800	1.10	**TR**	**138 / TRF78**	**MY**	**112M4**	166
	5.6	6390	255	56400	1.25	**TRF**	**138 / TRF78**	**MY**	**112M4**	166
	6.4	5600	223	57600	1.45					
	3.8	9560	376	43000	0.85	**TR**	**138 / TRF78**	**MY**	**112M4**	166
	4.2	8600	339	51400	0.95	**TRF**	**138 / TRF78**	**MY**	**112M4**	166
	4.8	7540	297	54300	1.05					
	7.6	4680	187	27200	0.90	**TR**	**108 / TRF78**	**MY**	**112M4**	166
						TRF	**108 / TRF78**	**MY**	**112M4**	166
	7.3	4890	193	19000	0.90	**TR**	**108 / TRF78**	**MY**	**112M4**	166
	8.2	4380	172	29000	1.00	**TRF**	**108 / TRF78**	**MY**	**112M4**	166
	4.4	8660	163.31	69500	1.50	**TR**	**148**	**MY**	**132ML8**	162
	4.9	7790	146.91	70500	1.65	**TRF**	**148**	**MY**	**132ML8**	163
	6.0	6360	119.86	71900	2.0					
	6.6	5800	109.31	72400	2.2					
	4.1	9250	174.40*	48400	0.85	**TR**	**138**	**MY**	**132ML8**	160
	4.6	8290	156.31	52700	0.95	**TRF**	**138**	**MY**	**132ML8**	161
	5.1	7490	141.12*	54400	1.05					
	5.6	6800	128.18	55700	1.20					
	6.3	6030	113.72	57000	1.35					
	7.0	5470	103.20*	57800	1.45					
	4.3	8860	222.60*	50300	0.90	**TR**	**138**	**MY**	**132M6**	160
	5.1	7500	188.45	54400	1.05	**TRF**	**138**	**MY**	**132M6**	161
	5.5	6940	174.40*	55500	1.15					
	6.1	6220	156.31	56700	1.30					
	6.8	5620	141.12*	57600	1.40					
	7.5	5100	128.18	58300	1.55					
	8.4	4520	113.72	59000	1.75	**TR**	**138**	**MY**	**132M6**	160
	9.3	4110	103.20*	59400	1.95	**TRF**	**138**	**MY**	**132M6**	161
	11	3530	88.70*	59900	2.3					
	8.2	4640	172.34	27500	0.95	**TR**	**108**	**MY**	**112M4**	158
	9.0	4270	158.68	29600	1.00	**TRF**	**108**	**MY**	**112M4**	159
	10	3820	141.83	31900	1.15					
	11	3430	127.68	33400	1.25					
	12	3110	115.63	34600	1.40					
	14	2760	102.53	35700	1.55					
	15	2490	92.70	36200	1.70					
	18	2110	78.57	34900	2.0					
	19	1960	72.88	34200	2.2					
	22	1760	65.60*	33200	2.4					
	24	1600	59.41	32300	2.7					
	27	1420	52.68	31300	3.0					
	12	3130	116.48	13800	0.95	**TR**	**98**	**MY**	**112M4**	156
	14	2780	103.44	22400	1.10	**TRF**	**98**	**MY**	**112M4**	157
	15	2490	92.48	24100	1.20					
	17	2240	83.15	25400	1.35					
	20	1940	72.17	26600	1.55					
	22	1750	65.21	26000	1.70					
	24	1610	59.92	25500	1.85					
	27	1430	53.21	24700	2.1					
	30	1280	47.58	24000	2.3					
	33	1150	42.78	23400	2.6					
	38	1000	37.13	22500	3.0					
	43	890	33.25	21800	3.2					
	44	860	32.05	21600	3.0	**TR**	**98**	**MY**	**112M4**	156
	52	730	27.19	20600	3.5	**TRF**	**98**	**MY**	**112M4**	157
	57	675	25.03	20100	4.2					
	63	600	22.37	19500	4.5					
	71	540	20.14	18900	4.8					
	22	1710	63.68*	13300	0.90	**TR**	**88**	**MY**	**112M4**	153
	24	1620	60.35*	13900	0.95	**TRF**	**88**	**MY**	**112M4**	154
	27	1420	52.82	15200	1.10					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
4	30	1280	47.58	16000	1.20	**TR 88 MY 112M4**	153
	34	1120	41.74	16800	1.40	**TRF 88 MY 112M4**	154
	39	990	36.84*	17400	1.55		
	43	880	32.66*	17500	1.75		
	51	750	27.88	16800	2.0		
	41	930	34.40*	17600	1.60	**TR 88 MY 112M4**	153
	45	840	31.40	17400	1.85	**TRF 88 MY 112M4**	154
	51	750	27.84*	16800	2.1		
	61	630	23.40	16100	2.5		
	66	580	21.51	15700	2.6		
	74	515	19.10	15200	2.8		
	83	460	17.08*	14700	3.0		
	92	415	15.35	14300	3.2		
	107	360	13.33	13700	3.6		
	119	320	11.93	13300	3.8		
	39	990	36.83	4070	0.85	**TR 78 MY 112M4**	150
	42	900	33.47	9100	0.90	**TRF 78 MY 112M4**	151
	49	780	29.00	10300	1.05		
	56	680	25.23	10800	1.15		
	61	630	23.37	10600	1.30	**TR 78 MY 112M4**	150
	66	575	21.43	10400	1.40	**TRF 78 MY 112M4**	151
	76	505	18.80	10100	1.55		
	80	480	17.82*	9950	1.65		
	91	420	15.60	9630	1.75		
	101	380	14.05	9380	1.90		
	115	330	12.33	9070	2.1		
	131	295	10.88	8780	2.3		
	147	260	9.64	8500	2.4		
	165	230	8.59	8320	2.7		
	183	210	7.74	8070	2.9		
	209	183	6.79	7770	3.2		
	237	161	5.99*	7490	3.4		
	267	143	5.31*	7230	3.6		
	71	535	19.89	7960	1.10	**TR 68 MY 112M4**	147
	79	485	17.95	7800	1.20	**TRF 68 MY 112M4**	148
	90	425	15.79	7600	1.30		
	95	400	14.91	7510	1.35		
	112	340	12.70	7240	1.50		
	123	310	11.54	7080	1.60		
	142	270	10.00	6840	1.75		
	163	235	8.70*	6600	1.90		
	182	210	7.79	6440	1.80		
	193	198	7.36*	6340	1.85		
	227	169	6.27	6070	1.95		
	249	153	5.70	5920	2.0		
	288	133	4.93	5680	2.2		
	331	116	4.29	5460	2.3		
	76	500	18.60*	3520	0.90	**TR 58 MY 112M4**	144
	85	450	16.79	3830	1.00	**TRF 58 MY 112M4**	145
	96	395	14.77*	3800	1.10		
	102	375	13.95*	3780	1.15		
	120	320	11.88	3710	1.25		
	132	290	10.79	3660	1.35		
	152	250	9.35	3580	1.45		
	157	245	9.06	3590	1.55		
	178	215	7.97	3500	1.65		
	189	205	7.53	3470	1.75		
	222	172	6.41	3350	1.95		
	244	157	5.82	3280	2.0		
	281	136	5.05	3180	2.3		
	323	118	4.39	3070	2.4		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
4	140	275	10.15	1960	0.85	**TR 48 MY 112M4**	141
	157	245	9.07	2350	0.90	**TRF 48 MY 112M4**	142
	177	215	8.01	2640	0.95		
	204	187	6.96	2480	0.85		
	237	161	6.00	2430	0.95		
	252	152	5.64*	2410	1.00		
	293	131	4.85	2350	1.15		
	327	117	4.34	2300	1.25		
	371	103	3.83	2250	1.40		
	176	215	16.22	2640	1.25	**TR 48 MY 112M2**	141
	196	195	14.56	2600	1.35	**TRF 48 MY 112M2**	142
	228	168	12.54	2540	1.50		
	242	158	11.79	2510	1.55		
	282	136	10.15	2440	1.70		
	315	121	9.07	2390	1.80		
	357	107	8.01	2320	1.90		
	369	104	7.76*	2250	1.55		
	411	93	6.96	2200	1.70		
	477	80	6.00	2130	1.95		
	507	75	5.64*	2100	2.1		
	589	65	4.85	2020	2.3		
	660	58	4.34	1970	2.5		
	746	51	3.83	1910	2.8		
	255	150	5.56*	6630	1.50	**TRX 88 MY 112M4**	126
	280	137	5.07	6470	1.85	**TRXF 88 MY 112M4**	127
	316	121	4.50*	6260	2.4		
	375	102	3.78	5960	3.0		
	351	109	4.04*	4670	1.30	**TRX 78 MY 112M4**	124
	383	100	3.70	4560	1.55	**TRXF 78 MY 112M4**	125
	437	87	3.25*	4410	2.1		
	461	83	3.08*	4350	2.3		
	527	73	2.70	4190	3.0		
	585	65	2.43	4070	3.3		
	667	57	2.13	3920	3.5		
	755	51	1.88*	3780	3.7		
	852	45	1.67	3650	3.9		
	998	38	1.42	3480	4.1		
	444	86	3.20*	2870	1.15	**TRX 68 MY 112M4**	122
	492	78	2.89	2810	1.35	**TRXF 68 MY 112M4**	123
	559	68	2.54	2730	1.75		
	592	65	2.40*	2690	1.90		
	695	55	2.04	2580	2.4		
	765	50	1.86	2520	2.5		
	883	43	1.61	2420	2.6		
	1015	38	1.40*	2330	2.8		
	538	71	2.64*	1670	0.95	**TRX 58 MY 112M4**	120
	599	64	2.37	1780	1.10	**TRXF 58 MY 112M4**	121
	696	55	2.04	1910	1.25		
	740	52	1.92*	1940	1.35		
	859	44	1.65	1900	1.55		
	962	40	1.48	1840	1.70		
	1090	35	1.30	1790	1.80		
5.5	2.2	22200	656	120000	0.80	**TR 168 / TRF98 MY 132S4**	166
	2.5	19400	579	120000	0.95	**TRF 168 / TRF98 MY 132S4**	166
	2.8	17000	503	120000	1.05		
	3.3	14500	432	120000	1.25		
	3.8	12700	376	120000	1.40		
	4.3	11300	335	120000	1.60		
	4.7	10200	303	120000	1.75		
	5.1	9360	279	120000	1.90		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
5.5	3.1	15700	462	41200	0.85	**TR 148 / TRF88 MY 132S4**	166
	3.4	14600	426	55400	0.90	**TRF 148 / TRF88 MY 132S4**	166
	3.9	12600	368	63500	1.05		
	4.4	11100	326	66000	1.15		
	5.1	9520	280	68500	1.35		
	5.8	8400	247	69900	1.55		
	6.7	7250	214	71100	1.80		
	7.6	6410	189	71900	2.0		
	3.1	17000	229.71	120000	1.05	**TR 168 MY 160M8**	164
	3.8	13800	186.93*	120000	1.30	**TRF 168 MY 160M8**	165
	4.6	11300	153.07	120000	1.60		
	5.1	10400	139.98	120000	1.75		
	5.8	9010	121.81*	120000	2.0		
	4.4	12100	163.31	64400	1.10	**TR 148 MY 160M8**	162
	4.8	10900	146.91	66500	1.20	**TRF 148 MY 160M8**	163
	5.9	8870	119.86	69300	1.45		
	6.5	8090	109.31	70200	1.60		
	5.9	8930	163.31	69200	1.45	**TR 148 MY 132ML6**	162
	6.5	8040	146.91	70300	1.60	**TRF 148 MY 132ML6**	163
	8.0	6560	119.86	71700	2.0		
	8.8	5980	109.31	72200	2.2	**TR 148 MY 132ML6**	162
	10	5180	94.60*	72800	2.5	**TRF 148 MY 132ML6**	163
	12	4570	83.47	73200	2.9		
	5.5	9480	128.18	44400	0.85	**TR 138 MY 160M8**	160
	6.2	8410	113.72	52200	0.95	**TRF 138 MY 160M8**	161
	6.9	7630	103.20*	54200	1.05		
	8.0	6560	88.70*	56100	1.20		
	5.5	9540	174.40*	43300	0.85	**TR 138 MY 132ML6**	160
	6.1	8550	156.31	51600	0.95	**TRF 138 MY 132ML6**	161
	6.8	7720	141.12*	54000	1.05		
	7.5	7010	128.18	55300	1.15		
	8.4	6220	113.72	56700	1.30		
	9.3	5650	103.20*	57600	1.40		
	6.4	8180	222.60*	53000	1.00	**TR 138 MY 132S4**	160
	7.6	6920	188.45	55500	1.15	**TRF 138 MY 132S4**	161
	8.2	6410	174.40*	56400	1.25		
	9.2	5740	156.31	57400	1.40		
	10	5180	141.12*	58200	1.55		
	11	4710	128.18	58800	1.70	**TR 138 MY 132S4**	160
	13	4180	113.72	59300	1.90	**TRF 138 MY 132S4**	161
	14	3790	103.20*	59700	2.1		
	16	3260	88.70*	60200	2.5		
	18	2970	80.91*	60400	2.7		
	19	2700	73.49	60500	3.0		
	22	2390	65.20	60700	3.3		
	24	2170	59.17*	60900	3.7		
	28	1870	50.86*	61000	4.3		
	11	4690	127.68	27100	0.90	**TR 108 MY 132S4**	158
	12	4250	115.63	29800	1.00	**TRF 108 MY 132S4**	159
	14	3770	102.53	32100	1.15		
	15	3400	92.70	33500	1.25		
	18	2890	78.57	33500	1.50		
	20	2680	72.88	32900	1.60		
	22	2410	65.60*	32100	1.80		
	24	2180	59.41	31300	1.95		
	27	1930	52.68	30300	2.2		
	30	1750	47.63	29500	2.5		
	35	1480	40.37*	28200	2.9		
	17	3050	83.15	17600	1.00	**TR 98 MY 132S4**	156
	20	2650	72.17	21800	1.15	**TRF 98 MY 132S4**	157

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
5.5	22	2390	65.21	24600	1.25	**TR**	**98**	**MY**	**132S4**	156
	24	2200	59.92	24200	1.35	**TRF**	**98**	**MY**	**132S4**	157
	27	1950	53.21	23600	1.55					
	30	1750	47.58	23000	1.70					
	33	1570	42.78	22500	1.90					
	39	1360	37.13	21700	2.2					
	43	1220	33.25	21100	2.4					
	52	1010	27.58	20100	2.6					
	45	1180	32.05	20900	2.2	**TR**	**98**	**MY**	**132S4**	156
	53	1000	27.19	20000	2.6	**TRF**	**98**	**MY**	**132S4**	157
	57	920	25.03	19600	3.1					
	64	820	22.37	19000	3.3					
	71	740	20.14	18400	3.5					
	78	670	18.24	17900	3.7					
	88	595	16.17	17300	4.0					
	30	1750	47.58	15400	0.90	**TR**	**88**	**MY**	**132S4**	153
	34	1530	41.74	17000	1.00	**TRF**	**88**	**MY**	**132S4**	154
	39	1350	36.84*	17200	1.15					
	44	1200	32.66*	16700	1.30					
	51	1020	27.88	16100	1.45					
	51	1020	27.84*	16100	1.50	**TR**	**88**	**MY**	**132S4**	153
	61	860	23.40	15500	1.80	**TRF**	**88**	**MY**	**132S4**	154
	66	790	21.51	15200	1.90					
	75	700	19.10	14700	2.1					
	84	625	17.08*	14300	2.2					
	93	565	15.35	13900	2.4					
	107	490	13.33	13400	2.6					
	120	440	11.93	13000	2.8					
	144	365	9.90*	12300	3.3					
	156	335	9.14*	12200	3.6					
	174	300	8.22	11800	3.8					
	200	260	7.13	11300	4.1					
	76	690	18.80	9240	1.15	**TR**	**78**	**MY**	**132S4**	150
	80	655	17.82*	9400	1.20	**TRF**	**78**	**MY**	**132S4**	151
	92	575	15.60	9150	1.30					
	102	515	14.05	8950	1.40	**TR**	**78**	**MY**	**132S4**	150
	116	455	12.33	8690	1.50	**TRF**	**78**	**MY**	**132S4**	151
	131	400	10.88	8440	1.65					
	148	355	9.64	8190	1.80					
	166	315	8.59	8080	2.0					
	185	285	7.74	7860	2.2					
	211	250	6.79	7580	2.3					
	239	220	5.99*	7320	2.5					
	269	195	5.31*	7070	2.6					
	91	580	15.79	6610	0.95	**TR**	**68**	**MY**	**132S4**	147
	96	550	14.91	6900	1.00	**TRF**	**68**	**MY**	**132S4**	148
	113	465	12.70	6810	1.10					
	124	425	11.54	6690	1.20					
	143	365	10.00	6500	1.30					
	164	320	8.70*	6310	1.40					
	183	285	7.79	6180	1.35					
	194	270	7.36*	6100	1.35					
	228	230	6.27	5860	1.45					
	251	210	5.70	5720	1.50					
	290	181	4.93	5510	1.60					
	333	158	4.29	5310	1.70					
	331	159	8.70*	5300	2.8	**TR**	**68**	**MY**	**132S2**	147
	369	142	7.79	5160	2.7	**TRF**	**68**	**MY**	**132S2**	148
	391	134	7.36*	5080	2.8					
	460	114	6.27	4860	2.9					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
5.5	506	104	5.70	4730	3.0	**TR 68** **MY 132S2**	147
	584	90	4.93	4540	3.2	**TRF 68** **MY 132S2**	148
	671	78	4.29	4350	3.5		
	97	545	14.77*	1730	0.80	**TR 58** **MY 132S4**	144
	103	510	13.95*	2070	0.85	**TRF 58** **MY 132S4**	145
	120	435	11.88	2900	0.95		
	132	395	10.79	3270	1.00		
	153	345	9.35	3240	1.10	**TR 58** **MY 132S4**	144
	179	295	7.97	3220	1.20	**TRF 58** **MY 132S4**	145
	190	275	7.53	3200	1.25		
	223	235	6.41	3120	1.40		
	246	215	5.82	3080	1.50		
	283	185	5.05	3000	1.65		
	326	161	4.39	2920	1.75		
	308	171	9.35	2930	2.2	**TR 58** **MY 132S2**	144
	361	145	7.97	2850	2.4	**TRF 58** **MY 132S2**	145
	383	137	7.53	2820	2.6		
	449	117	6.41	2720	2.9		
	494	106	5.82	2660	3.0		
	571	92	5.05	2560	3.3		
	656	80	4.39	2470	3.5		
	295	178	4.85	1870	0.85	**TR 48** **MY 132S4**	141
	330	159	4.34	2110	0.90	**TRF 48** **MY 132S4**	142
	373	141	3.83	2080	1.00		
	230	230	12.54	1730	1.10	**TR 48** **MY 132S2**	141
	244	215	11.79	1910	1.15	**TRF 48** **MY 132S2**	142
	284	185	10.15	2250	1.25		
	318	165	9.07	2220	1.35		
	359	146	8.01	2170	1.40		
	480	109	6.00	2000	1.45		
	511	103	5.64*	1970	1.50		
	593	89	4.85	1920	1.70		
	664	79	4.34	1870	1.85		
	752	70	3.83	1820	2.1		
	216	245	6.63*	10500	1.90	**TRX 108** **MY 132S4**	130
	255	205	5.61	9980	2.2	**TRXF 108** **MY 132S4**	131
	276	191	5.19	9760	3.7		
	307	171	4.65	9460	4.1		
	247	215	5.79	8380	1.95	**TRX 98** **MY 132S4**	128
	291	180	4.91	8010	2.2	**TRXF 98** **MY 132S4**	129
	316	166	4.52	7820	3.6		
	354	149	4.04	7580	4.0		
	393	134	3.64*	7350	4.5		
	434	121	3.30	7140	4.9		
	489	107	2.92	6890	5.5		
	541	97	2.64	6690	6.1		
	638	82	2.24*	6360	7.2		
	731	72	1.96	6110	7.9		
	874	60	1.64	5780	8.4		
	1010	52	1.42	5530	8.8		
	318	165	4.50*	6040	1.75	**TRX 88** **MY 132S4**	126
	378	139	3.78	5770	2.2	**TRXF 88** **MY 132S4**	127
	411	128	3.48	5640	3.2		
	463	113	3.09	5460	3.6		
	518	101	2.76*	5290	4.0		
	576	91	2.48	5130	4.5		
	664	79	2.15	4930	4.9		
	440	119	3.25*	4220	1.50	**TRX 78** **MY 132S4**	124
	464	113	3.08*	4160	1.70	**TRXF 78** **MY 132S4**	125
	530	99	2.70	4030	2.2		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
5.5	589	89	2.43	3920	2.4	**TRX 78**	**MY 132S4**	124
	671	78	2.13	3780	2.6	**TRXF 78**	**MY 132S4**	125
	761	69	1.88*	3660	2.7			
	858	61	1.67	3540	2.8			
	1005	52	1.42	3380	3.0			
	563	93	2.54	2550	1.25	**TRX 68**	**MY 132S4**	122
	596	88	2.40*	2520	1.40	**TRXF 68**	**MY 132S4**	123
	700	75	2.04	2430	1.80			
	770	68	1.86	2380	1.85			
	889	59	1.61	2300	1.95			
	1020	51	1.40*	2220	2.0			
	700	75	2.04	665	0.90	**TRX 58**	**MY 132S4**	120
	745	71	1.92*	755	1.00	**TRXF 58**	**MY 132S4**	121
	866	61	1.65	940	1.15			
	969	54	1.48	1020	1.25			
	1095	48	1.30	1160	1.30			
7.5	2.8	23400	503	120000	0.75	**TR 168 / TRF98**	**MY 132M4**	166
	3.3	19900	432	120000	0.90	**TRF 168 / TRF98**	**MY 132M4**	166
	3.8	17500	376	120000	1.05			
	4.3	15600	335	120000	1.15			
	4.7	14000	303	120000	1.30			
	5.1	12900	279	120000	1.40			
	4.4	15200	326	47300	0.85	**TR 148 / TRF88**	**MY 132M4**	166
	5.1	13000	280	62600	1.00	**TRF 148 / TRF88**	**MY 132M4**	166
	5.8	11500	247	65400	1.15			
	6.7	9940	214	67900	1.30			
	7.6	8790	189	69400	1.50			
	9.0	7390	159	71000	1.75			
	3.1	22900	229.71	120000	0.80	**TR 168**	**MY 160L8**	164
	3.9	18600	186.93*	120000	0.95	**TRF 168**	**MY 160L8**	165
	4.7	15200	153.07	120000	1.20			
	5.1	13900	139.98	120000	1.30			
	5.9	12100	121.81*	120000	1.50			
	4.2	17100	229.71	120000	1.05	**TR 168**	**MY 160M6**	164
	5.1	13900	186.93*	120000	1.30	**TRF 168**	**MY 160M6**	165
	6.3	11400	153.07	120000	1.60			
	6.9	10400	139.98	120000	1.70			
	7.9	9090	121.81*	120000	2.0			
	8.9	8020	107.49	120000	2.2			
	10	6950	93.19	120000	2.6			
	12	6190	82.91*	120000	2.9			
	13	5500	73.70*	120000	3.3			
	14	5030	67.40	120000	3.6			
	4.4	16200	163.31	32800	0.80	**TR 148**	**MY 160L8**	162
	4.9	14600	146.91	55100	0.90	**TRF 148**	**MY 160L8**	163
	6.0	11900	119.86	64700	1.10			
	6.6	10900	109.31	66500	1.20			
	5.9	12200	163.31	64200	1.05	**TR 148**	**MY 160M6**	162
	6.5	11000	146.91	66300	1.20	**TRF 148**	**MY 160M6**	163
	8.0	8940	119.86	69200	1.45			
	8.8	8150	109.31	70100	1.60			
	10	7060	94.60*	71300	1.85			
	12	6230	83.47	72000	2.1			
	7.6	9440	188.45	45300	0.85	**TR 138**	**MY 132M4**	160
	8.2	8730	174.40*	50800	0.90	**TRF 138**	**MY 132M4**	161
	9.2	7830	156.31	53700	1.00			
	10	7070	141.12*	55200	1.15			
	11	6420	128.18	56400	1.25			
	13	5700	113.72	57500	1.40			
	14	5170	103.20*	58200	1.55			

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
7.5	16	4440	88.70*	59100	1.80	**TR**	**138**	**MY**	**132M4**	160
	18	4050	80.91*	59500	1.95	**TRF**	**138**	**MY**	**132M4**	161
	19	3680	73.49	59800	2.2					
	22	3270	65.20	60100	2.5					
	24	2960	59.17*	60400	2.7					
	28	2550	50.86*	60600	3.1					
	15	4640	92.70	27500	0.95	**TR**	**108**	**MY**	**132M4**	158
	18	3940	78.57	31300	1.10	**TRF**	**108**	**MY**	**132M4**	159
	20	3650	72.88	31300	1.20					
	22	3290	65.60*	30600	1.30					
	24	2980	59.41	30000	1.45					
	27	2640	52.68	29200	1.65					
	30	2390	47.63	28500	1.80					
	35	2020	40.37*	27300	2.1					
	41	1770	35.26	26400	2.4					
	48	1480	29.49	25200	2.9					
	46	1540	30.77	25500	2.8	**TR**	**108**	**MY**	**132M4**	158
	52	1380	27.58	24700	3.1	**TRF**	**108**	**MY**	**132M4**	159
	57	1250	24.90*	24100	3.5					
	63	1130	22.62	23400	3.8					
	24	3000	59.92	19700	1.00	**TR**	**98**	**MY**	**132M4**	156
	27	2670	53.21	22200	1.15	**TRF**	**98**	**MY**	**132M4**	157
	30	2380	47.58	21800	1.25					
	33	2140	42.78	21300	1.40					
	39	1860	37.13	20700	1.60					
	43	1670	33.25	20200	1.75					
	52	1380	27.58	19400	1.95					
	45	1610	32.05	20000	1.60	**TR**	**98**	**MY**	**132M4**	156
	53	1360	27.19	19300	1.90	**TRF**	**98**	**MY**	**132M4**	157
	57	1250	25.03	18900	2.3					
	64	1120	22.37	18400	2.4					
	71	1010	20.14	17900	2.6					
	78	910	18.24	17500	2.7					
	39	1840	36.84*	11500	0.85	**TR**	**88**	**MY**	**132M4**	153
	44	1640	32.66*	15700	0.95	**TRF**	**88**	**MY**	**132M4**	154
	51	1400	27.88	15200	1.05					
	51	1390	27.84*	15200	1.10	**TR**	**88**	**MY**	**132M4**	153
	61	1170	23.40	14700	1.30	**TRF**	**88**	**MY**	**132M4**	154
	66	1080	21.51	14500	1.40					
	75	960	19.10	14100	1.50					
	84	860	17.08*	13700	1.65					
	93	770	15.35	12500	1.75					
	107	670	13.33	12900	1.90					
	120	600	11.93	12600	2.1					
	144	495	9.90*	12000	2.4					
	156	460	9.14*	11900	2.6					
	174	410	8.22	11600	2.8					
	200	355	7.13	11100	3.0					
	224	320	6.39	10800	3.2					
	270	265	5.30*	10200	3.4					
	76	940	18.80	5310	0.85	**TR**	**78**	**MY**	**132M4**	150
	80	890	17.82*	5720	0.85	**TRF**	**78**	**MY**	**132M4**	151
	92	780	15.60	6610	0.95					
	102	705	14.05	7180	1.00					
	116	615	12.33	7750	1.10					
	131	545	10.88	8010	1.20					
	148	485	9.64	7810	1.30					
	166	430	8.59	7620	1.45					
	185	390	7.74	7590	1.55					
	211	340	6.79	7340	1.70					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
7.5	239	300	5.99*	7110	1.80	**TR 78** **MY 132M4**	150
	269	265	5.31*	6890	1.90	**TRF 78** **MY 132M4**	151
	113	635	12.70	4240	0.80	**TR 68** **MY 132M4**	147
	124	580	11.54	4860	0.85	**TRF 68** **MY 132M4**	148
	143	500	10.00	5620	0.95		
	164	435	8.70*	5930	1.00		
	183	390	7.79	5500	0.95		
	194	370	7.36*	5720	1.00		
	228	315	6.27	5600	1.05		
	251	285	5.70	5480	1.10		
	290	245	4.93	5300	1.15		
	333	215	4.29	5130	1.25		
	179	400	7.97	980	0.90	**TR 58** **MY 132M4**	144
	190	375	7.53	1280	0.95	**TRF 58** **MY 132M4**	145
	223	320	6.41	2020	1.05		
	246	290	5.82	2380	1.10		
	283	255	5.05	2760	1.20		
	326	220	4.39	2710	1.25		
	196	365	14.77*	2580	1.20	**TR 58** **MY 132M2**	144
	208	345	13.95*	2780	1.25	**TRF 58** **MY 132M2**	145
	244	295	11.88	2780	1.40		
	269	265	10.79	2750	1.45		
	310	230	9.35	2710	1.60		
	364	197	7.97	2670	1.80		
	385	186	7.53	2640	1.90		
	452	158	6.41	2570	2.1		
	498	144	5.82	2520	2.2		
	575	125	5.05	2440	2.5		
	660	108	4.39	2370	2.6		
	216	330	6.63*	10100	1.40	**TRX 108** **MY 132M4**	130
	255	280	5.61	9690	1.60	**TRXF 108** **MY 132M4**	131
	276	260	5.19	9490	2.7		
	307	235	4.65	9210	3.0		
	340	210	4.20*	8950	3.9		
	247	290	5.79	8080	1.45	**TRX 98** **MY 132M4**	128
	291	245	4.91	7750	1.60	**TRXF 98** **MY 132M4**	129
	316	225	4.52	7580	2.6		
	354	205	4.04	7360	2.9		
	393	182	3.64*	7160	3.3		
	434	165	3.30	6960	3.6		
	489	146	2.92	6730	4.1		
	318	225	4.50*	5760	1.30	**TRX 88** **MY 132M4**	126
	378	189	3.78	5530	1.60	**TRXF 88** **MY 132M4**	127
	411	174	3.48	5420	2.3		
	463	155	3.09	5260	2.6		
	518	138	2.76*	5110	2.9		
	576	124	2.48	4970	3.3		
	664	108	2.15	4780	3.6		
	741	97	1.93	4640	3.7		
	894	80	1.60*	4400	3.9		
	1030	70	1.39	4230	4.2		
	440	163	3.25*	3820	1.10	**TRX 78** **MY 132M4**	124
	464	154	3.08*	3890	1.25	**TRXF 78** **MY 132M4**	125
	530	135	2.70	3820	1.60		
	589	122	2.43	3730	1.75		
	671	107	2.13	3620	1.85		
	761	94	1.88*	3510	2.0		
	858	84	1.67	3400	2.1		
	1005	71	1.42	3260	2.2		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
7.5	563	127	2.54	1500	0.95	**TRX 68**	**MY 132M4** 122
	596	120	2.40*	1610	1.00	**TRXF 68**	**MY 132M4** 123
	700	102	2.04	1810	1.30		
	770	93	1.86	1930	1.35		
	889	81	1.61	2060	1.40		
	1020	70	1.40*	2080	1.50		
9.2	3.8	21400	376	120000	0.85	**TR 168 / TRF98**	**MY 132ML4** 166
	4.3	19000	335	120000	0.95	**TRF 168 / TRF98**	**MY 132ML4** 166
	4.8	17100	303	120000	1.05		
	5.2	15700	279	120000	1.15		
	5.1	15900	280	37800	0.80	**TR 148 / TRF88**	**MY 132ML4** 166
	5.8	14000	247	60400	0.95	**TRF 148 / TRF88**	**MY 132ML4** 166
	6.7	12100	214	64300	1.05		
	7.6	10700	189	66700	1.20		
	9.1	9020	159	69100	1.45		
	8.8	9960	163.31	67800	1.30	**TR 148**	**MY 132ML4** 162
	9.8	8960	146.91	69200	1.45	**TRF 148**	**MY 132ML4** 163
	12	7310	119.86	71000	1.80		
	13	6670	109.31	71600	1.95	**TR 148**	**MY 132ML4** 162
	15	5770	94.60*	72400	2.3	**TRF 148**	**MY 132ML4** 163
	17	5090	83.47	72900	2.6		
	20	4400	72.09	73300	3.0		
	22	4090	66.99	73500	3.2		
	9.2	9540	156.31	43400	0.85	**TR 138**	**MY 132ML4** 160
	10	8610	141.12*	51400	0.95	**TRF 138**	**MY 132ML4** 161
	11	7820	128.18	53800	1.00		
	13	6940	113.72	55500	1.15		
	14	6300	103.20*	56600	1.25	**TR 138**	**MY 132ML4** 160
	16	5410	88.70*	57900	1.50	**TRF 138**	**MY 132ML4** 161
	18	4940	80.91*	58500	1.60		
	20	4480	73.49	59000	1.80		
	22	3980	65.20	59500	2.0		
	24	3610	59.17*	59900	2.2		
	28	3100	50.86*	60300	2.6		
	32	2710	44.39	60500	3.0		
	18	4790	78.57	23300	0.90	**TR 108**	**MY 132ML4** 158
	20	4450	72.88	28600	0.95	**TRF 108**	**MY 132ML4** 159
	22	4000	65.60*	29400	1.05		
	24	3620	59.41	28800	1.20		
	27	3210	52.68	28100	1.35		
	30	2910	47.63	27500	1.50		
	36	2460	40.37*	26500	1.75		
	41	2150	35.26	25700	2.0		
	49	1800	29.49	24600	2.4		
	47	1880	30.77	24900	2.3	**TR 108**	**MY 132ML4** 158
	52	1680	27.58	24200	2.6	**TRF 108**	**MY 132ML4** 159
	58	1520	24.90*	23500	2.8		
	64	1380	22.62	23000	3.1		
	72	1220	20.07	22200	3.5		
	27	3250	53.21	3280	0.90	**TR 98**	**MY 132ML4** 156
	30	2900	47.58	20600	1.05	**TRF 98**	**MY 132ML4** 157
	34	2610	42.78	20300	1.15		
	39	2270	37.13	19800	1.30		
	43	2030	33.25	19400	1.40		
	52	1680	27.58	18700	1.60		
	58	1530	25.03	18300	1.85	**TR 98**	**MY 132ML4** 156
	64	1370	22.37	17900	2.0	**TRF 98**	**MY 132ML4** 157
	71	1230	20.14	17400	2.1		
	79	1110	18.24	17000	2.3		
	89	990	16.17	16500	2.4		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
9.2	98	890	14.62	16100	2.6	**TR 98 MY 132ML4**	156
	116	755	12.39	15400	2.9	**TRF 98 MY 132ML4**	157
	67	1310	21.51	13900	1.15	**TR 88 MY 132ML4**	153
	75	1170	19.10	13600	1.25	**TRF 88 MY 132ML4**	154
	84	1040	17.08*	13200	1.35		
	94	940	15.35	13000	1.45		
	108	810	13.33	12600	1.55		
	121	730	11.93	12200	1.70		
	145	605	9.90*	11700	1.95		
	158	560	9.14*	11700	2.2		
	175	500	8.22	11400	2.3		
	202	435	7.13	10900	2.5		
	225	390	6.39	10600	2.6		
	102	860	14.05	4740	0.85	**TR 78 MY 132ML4**	150
	117	750	12.33	5610	0.90	**TRF 78 MY 132ML4**	151
	132	665	10.88	6280	1.00		
	149	590	9.64	6800	1.05		
	186	470	7.74	6300	1.30		
	212	415	6.79	6720	1.40		
	240	365	5.99*	6920	1.50		
	271	325	5.31*	6720	1.55		
	277	315	5.19	9240	2.2	**TRX 108 MY 132ML4**	130
	310	285	4.65	8990	2.5	**TRXF 108 MY 132ML4**	131
	343	255	4.20*	8760	3.2		
	377	235	3.81	8540	3.6		
	425	205	3.38	8270	4.0		
	318	275	4.52	7370	2.2	**TRX 98 MY 132ML4**	128
	356	245	4.04	7170	2.4	**TRXF 98 MY 132ML4**	129
	396	220	3.64*	6980	2.7		
	437	200	3.30	6800	3.0		
	493	178	2.92	6590	3.3		
	545	161	2.64	6410	3.7		
	643	137	2.24*	6120	4.4		
	736	119	1.96	5890	4.8		
	880	100	1.64	5590	5.1		
	1015	86	1.42	5360	5.3		
	414	210	3.48	5220	1.90	**TRX 88 MY 132ML4**	126
	466	188	3.09	5080	2.2	**TRXF 88 MY 132ML4**	127
	522	168	2.76*	4950	2.4		
	580	151	2.48	4820	2.7		
	669	131	2.15	4650	2.9		
	747	118	1.93	4520	3.0		
	900	98	1.60*	4300	3.2		
	1035	85	1.39	4140	3.4		
	593	148	2.43	3010	1.45	**TRX 78 MY 132ML4**	124
	676	130	2.13	3160	1.55	**TRXF 78 MY 132ML4**	125
	766	115	1.88*	3260	1.65		
	864	102	1.67	3280	1.70		
	1010	87	1.42	3160	1.80		
11	4.9	19600	295	120000	0.90	**TR 168 TRF108 MY 160M4**	166
	5.3	18200	270	120000	1.00	**TRF 168 TRF108 MY 160M4**	166
	6.3	15400	229	120000	1.15		
	7.2	13400	200	120000	1.35		
	8.5	11300	169	120000	1.60		
	5	20000	291	120000	0.90	**TR 168 TRF108 MY 160M4**	166
						TRF 168 TRF108 MY 160M4	166
	4.3	22800	335	120000	0.80	**TR 168 / TRF98 MY 160M4**	166
	4.8	20500	303	120000	0.90	**TRF 168 / TRF98 MY 160M4**	166
	5.2	18900	279	120000	0.95		
	5.8	16800	247	22800	0.75	**TR 148 / TRF88 MY 160M4**	166
	6.7	14500	214	56000	0.90	**TRF 148 / TRF88 MY 160M4**	166

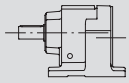
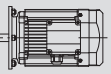
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
11	7.6	12900	189	63000	1.00	**TR 148 / TRF88 MY 160M4**	166
	9.1	10800	159	66600	1.20	**TRF 148 / TRF88 MY 160M4**	166
	5.1	20500	186.93*	120000	0.90	**TR 168 MY 160L6**	164
	6.3	16700	153.07	120000	1.05	**TRF 168 MY 160L6**	165
	6.9	15300	139.98	120000	1.20		
	7.9	13300	121.81*	120000	1.35		
	6.3	16800	229.71	120000	1.05	**TR 168 MY 160M4**	164
	7.7	13600	186.93*	120000	1.30	**TRF 168 MY 160M4**	165
	9.4	11200	153.07	120000	1.60	**TR 168 MY 160M4**	164
	10	10200	139.98	120000	1.75	**TRF 168 MY 160M4**	165
	12	8890	121.81*	120000	2.0		
	13	7840	107.49	120000	2.3		
	15	6800	93.19	120000	2.7		
	17	6050	82.91*	120000	3.0		
	6.5	16100	146.91	35400	0.80	**TR 148 MY 160L6**	162
	8.0	13100	119.86	62400	1.00	**TRF 148 MY 160L6**	163
	8.8	12000	109.31	64600	1.10		
	10	10400	94.60*	67300	1.25		
	12	9130	83.47	69000	1.40		
	8.8	11900	163.31	64700	1.10	**TR 148 MY 160M4**	162
	9.8	10700	146.91	66700	1.20	**TRF 148 MY 160M4**	163
	12	8740	119.86	69400	1.50		
	13	7970	109.31	70300	1.65		
	15	6900	94.60*	71400	1.90		
	17	6090	83.47	72100	2.1		
	20	5260	72.09	72800	2.5		
	22	4890	66.99	73000	2.7		
	24	4460	61.09	73300	2.9		
	27	3860	52.87	73600	3.4		
	10	10300	141.12*	23300	0.80	**TR 138 MY 160M4**	160
	11	9350	128.18	46900	0.85	**TRF 138 MY 160M4**	161
	13	8300	113.72	52700	0.95		
	14	7530	103.20*	54400	1.05		
	16	6470	88.70*	56300	1.25		
	18	5900	80.91*	57200	1.35		
	20	5360	73.49	57900	1.50		
	22	4760	65.20	58700	1.70		
	24	4320	59.17*	59200	1.85		
	28	3710	50.86*	59800	2.2		
	32	3240	44.39	60200	2.5		
	38	2750	37.65	60500	2.9		
	44	2400	32.91	60700	3.3		
	22	4790	65.60*	23700	0.90	**TR 108 MY 160M4**	158
	24	4330	59.41	27600	1.00	**TRF 108 MY 160M4**	159
	27	3840	52.68	27100	1.10		
	30	3470	47.63	26600	1.25		
	36	2940	40.37*	25700	1.45		
	41	2570	35.26	25000	1.65		
	49	2150	29.49	24000	2.0		
	47	2240	30.77	24200	1.90	**TR 108 MY 160M4**	158
	52	2010	27.58	23600	2.1	**TRF 108 MY 160M4**	159
	58	1820	24.90*	23100	2.4		
	64	1650	22.62	22500	2.6		
	72	1460	20.07	21800	2.9		
	79	1330	18.21	21300	3.2		
	34	3120	42.78	14500	0.95	**TR 98 MY 160M4**	156
	39	2710	37.13	18900	1.10	**TRF 98 MY 160M4**	157
	43	2430	33.25	18600	1.20		
	52	2010	27.58	18000	1.35		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
11	58	1830	25.03	17700	1.55	**TR**	**98**	**MY**	**160M4**	156
	64	1630	22.37	17300	1.65	**TRF**	**98**	**MY**	**160M4**	157
	71	1470	20.14	16900	1.80					
	79	1330	18.24	16600	1.90	**TR**	**98**	**MY**	**160M4**	156
	89	1180	16.17	16100	2.0	**TRF**	**98**	**MY**	**160M4**	157
	98	1070	14.62	15700	2.2					
	116	900	12.39	15100	2.4					
	133	790	10.83	14600	2.7					
	155	675	9.29	14300	3.0					
	172	610	8.39	13900	3.3					
	202	520	7.12	13200	3.9					
	232	455	6.21	12700	4.2					
	67	1570	21.51	13200	0.95	**TR**	**88**	**MY**	**160M4**	153
	75	1390	19.10	13000	1.05	**TRF**	**88**	**MY**	**160M4**	154
	84	1250	17.08*	12800	1.10					
	94	1120	15.35	12500	1.20	**TR**	**88**	**MY**	**160M4**	153
	108	970	13.33	12200	1.30	**TRF**	**88**	**MY**	**160M4**	154
	121	870	11.93	11900	1.40					
	145	720	9.90*	11400	1.65					
	158	665	9.14*	11500	1.80					
	175	600	8.22	11200	1.95					
	202	520	7.13	10800	2.1					
	225	465	6.39	10400	2.2					
	272	385	5.30*	9910	2.4					
	132	795	10.88	4250	0.85	**TR**	**78**	**MY**	**160M4**	150
	149	705	9.64	5000	0.90	**TRF**	**78**	**MY**	**160M4**	151
	186	565	7.74	4630	1.10					
	212	495	6.79	5250	1.15					
	240	435	5.99*	5720	1.25					
	271	390	5.31*	6090	1.30					
	277	380	5.19	9000	1.85	**TRX**	**108**	**MY**	**160M4**	130
	310	340	4.65	8770	2.1	**TRXF**	**108**	**MY**	**160M4**	131
	343	305	4.20*	8560	2.7					
	377	280	3.81	8360	3.0					
	425	245	3.38	8100	3.4					
	469	225	3.07	7900	3.7					
	545	193	2.64*	7580	4.3					
	318	330	4.52	7150	1.80	**TRX**	**98**	**MY**	**160M4**	128
	356	295	4.04	6970	2.0	**TRXF**	**98**	**MY**	**160M4**	129
	396	265	3.64*	6800	2.2					
	437	240	3.30	6640	2.5					
	493	215	2.92	6440	2.8					
	545	193	2.64	6280	3.1					
	643	163	2.24*	6000	3.6					
	736	143	1.96	5790	4.0					
	880	119	1.64	5500	4.2					
	1015	103	1.42	5280	4.4					
	414	255	3.48	5030	1.60	**TRX**	**88**	**MY**	**160M4**	126
	466	225	3.09	4910	1.80	**TRXF**	**88**	**MY**	**160M4**	127
	522	200	2.76*	4790	2.0					
	580	181	2.48	4680	2.2					
	669	157	2.15	4530	2.5					
	747	141	1.93	4400	2.5					
	900	117	1.60*	4200	2.7					
	1035	102	1.39	4050	2.9					
	593	177	2.43	1890	1.20	**TRX**	**78**	**MY**	**160M4**	124
	676	155	2.13	2140	1.30	**TRXF**	**78**	**MY**	**160M4**	125
	766	137	1.88*	2330	1.35					
	864	122	1.67	2460	1.40	**TRX**	**78**	**MY**	**160M4**	124
	1010	104	1.42	2580	1.50	**TRXF**	**78**	**MY**	**160M4**	125

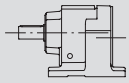
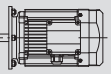
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
15	6.4	20800	229	120000	0.85	**TR 168 TRF108 MY 160L4**	166
	7.3	18200	200	120000	1.00	**TRF 168 TRF108 MY 160L4**	166
	8.6	15300	169	120000	1.20		
	6.4	20900	227	120000	0.85	**TR 168 TRF108 MY 160L4**	166
	7.4	18200	198	120000	1.00	**TRF 168 TRF108 MY 160L4**	166
	6.3	22600	153.07	120000	0.80	**TR 168 MY 180L6**	164
	6.9	20700	139.98	120000	0.85	**TRF 168 MY 180L6**	165
	8.0	18000	121.81*	120000	1.00		
	9.0	15900	107.49	120000	1.15		
	6.4	22500	229.71	120000	0.80	**TR 168 MY 160L4**	164
	7.8	18300	186.93*	120000	1.00	**TRF 168 MY 160L4**	165
	9.5	15000	153.07	120000	1.20	**TR 168 MY 160L4**	164
	10	13700	139.98	120000	1.30	**TRF 168 MY 160L4**	165
	12	12000	121.81*	120000	1.50		
	14	10500	107.49	120000	1.70		
	16	9140	93.19	120000	1.95		
	18	8130	82.91*	120000	2.2		
	20	7230	73.70*	120000	2.5		
	22	6610	67.40	120000	2.7		
	8.9	16100	109.31	34400	0.80	**TR 148 MY 180L6**	162
	10	14000	94.60*	60600	0.95	**TRF 148 MY 180L6**	163
	12	12300	83.47	64000	1.05		
	13	10600	72.09	66800	1.20		
	14	9890	66.99	67900	1.30		
	8.9	16000	163.31	36200	0.80	**TR 148 MY 160L4**	162
	9.9	14400	146.91	57400	0.90	**TRF 148 MY 160L4**	163
	12	11800	119.86	65000	1.10		
	13	10700	109.31	66700	1.20		
	15	9280	94.60*	68800	1.40	**TR 148 MY 160L4**	162
	17	8190	83.47	70100	1.60	**TRF 148 MY 160L4**	163
	20	7070	72.09	71300	1.85		
	22	6570	66.99	71700	2.0		
	24	5990	61.09	72200	2.2		
	28	5190	52.87	72800	2.5		
	31	4580	46.65	73200	2.8		
	14	10100	103.20*	30700	0.80	**TR 138 MY 160L4**	160
	16	8700	88.70*	51000	0.90	**TRF 138 MY 160L4**	161
	18	7940	80.91*	53500	1.00		
	20	7210	73.49	55000	1.10		
	22	6400	65.20	56400	1.25		
	25	5800	59.17*	57300	1.40		
	29	4990	50.86*	58400	1.60		
	33	4360	44.39	59100	1.85		
	39	3690	37.65	59800	2.2		
	44	3230	32.91	60200	2.5		
	52	2730	27.83	60500	2.8		
	31	4670	47.63	24500	0.90	**TR 108 MY 160L4**	158
	36	3960	40.37*	23900	1.10	**TRF 108 MY 160L4**	159
	41	3460	35.26	23400	1.25		
	50	2890	29.49	22600	1.50		
	47	3020	30.77	22800	1.40	**TR 108 MY 160L4**	158
	53	2710	27.58	22400	1.60	**TRF 108 MY 160L4**	159
	59	2440	24.90*	21900	1.75		
	65	2220	22.62	21400	1.95		
	73	1970	20.07	20900	2.2		
	80	1790	18.21	20400	2.4		
	93	1540	15.65	19700	2.8		
	107	1340	13.66	19000	3.2		
	53	2710	27.58	16500	1.00	**TR 98 MY 160L4**	156
						TRF 98 MY 160L4	157

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs					Page
15	58	2460	25.03	16300	1.15	**TR**	**98**	**MY**	**160L4**	156
	65	2200	22.37	16100	1.25	**TRF**	**98**	**MY**	**160L4**	157
	72	1980	20.14	15800	1.30					
	80	1790	18.24	15600	1.40					
	90	1590	16.17	15200	1.50					
	100	1430	14.62	14900	1.60					
	118	1220	12.39	14400	1.80					
	135	1060	10.83	14000	1.95					
	157	910	9.29	13800	2.2					
	174	820	8.39	13400	2.5					
	205	700	7.12	12800	2.9					
	235	610	6.21	12400	3.1					
	85	1680	17.08*	11600	0.85	**TR**	**88**	**MY**	**160L4**	153
	95	1510	15.35	11500	0.90	**TRF**	**88**	**MY**	**160L4**	154
	110	1310	13.33	11300	1.00					
	122	1170	11.93	11100	1.05					
	147	970	9.90*	10700	1.20	**TR**	**88**	**MY**	**160L4**	153
	160	900	9.14*	11000	1.35	**TRF**	**88**	**MY**	**160L4**	154
	178	810	8.22	10700	1.45					
	205	700	7.13	10300	1.55					
	229	625	6.39	10100	1.65					
	275	520	5.30*	9600	1.75					
	281	510	5.19	8440	1.35	**TRX**	**108**	**MY**	**160L4**	130
	314	455	4.65	8260	1.50	**TRXF**	**108**	**MY**	**160L4**	131
	348	410	4.20*	8100	2.0					
	383	375	3.81	7930	2.2					
	431	330	3.38	7720	2.5					
	475	300	3.07	7540	2.8					
	553	260	2.64*	7260	3.2					
	634	225	2.30	7010	3.7					
	747	192	1.95	6710	4.0					
	855	168	1.71	6470	4.2					
	1010	142	1.44	6170	4.6					
	323	445	4.52	6660	1.35	**TRX**	**98**	**MY**	**160L4**	128
	361	395	4.04	6530	1.50	**TRXF**	**98**	**MY**	**160L4**	129
	401	355	3.64*	6400	1.65					
	443	325	3.30	6270	1.85					
	499	285	2.92	6110	2.1					
	552	260	2.64	5970	2.3					
	652	220	2.24*	5730	2.7					
	746	192	1.96	5550	3.0					
	892	161	1.64	5290	3.2					
	1030	139	1.42	5090	3.3					
	420	340	3.48	4260	1.20	**TRX**	**88**	**MY**	**160L4**	126
	473	305	3.09	4510	1.35	**TRXF**	**88**	**MY**	**160L4**	127
	529	270	2.76*	4430	1.50					
	588	245	2.48	4350	1.65					
	678	210	2.15	4230	1.80					
	757	189	1.93	4130	1.90					
	913	157	1.60*	3960	2.0					
	1050	137	1.39	3840	2.1					
18.5	7.8	22500	186.93*	120000	0.80	**TR**	**168**	**MY**	**180M4**	164
	9.6	18500	153.07	120000	1.00	**TRF**	**168**	**MY**	**180M4**	165
	10	16900	139.98	120000	1.05					
	12	14700	121.81*	120000	1.25					
	14	13000	107.49	120000	1.40	**TR**	**168**	**MY**	**180M4**	164
	16	11200	93.19	120000	1.60	**TRF**	**168**	**MY**	**180M4**	165
	18	10000	82.91*	120000	1.80					
	20	8890	73.70*	120000	2.0					
	22	8130	67.40	120000	2.2					
	25	7070	58.65	120000	2.6					

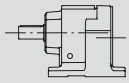
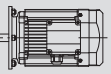
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
18.5	12	14500	119.86	56900	0.90	**TR 148** **MY 180M4**	162
	13	13200	109.31	62300	1.00	**TRF 148** **MY 180M4**	163
	15	11400	94.60*	65600	1.15		
	18	10100	83.47	67700	1.30		
	20	8690	72.09	69500	1.50		
	22	8080	66.99	70200	1.60		
	24	7370	61.09	71000	1.75		
	28	6380	52.87	71900	2.0		
	31	5630	46.65	72500	2.3		
	36	4860	40.29	73000	2.7		
	18	9760	80.91*	39000	0.80	**TR 138** **MY 180M4**	160
	20	8860	73.49	50200	0.90	**TRF 138** **MY 180M4**	161
	22	7860	65.20	53700	1.00		
	25	7140	59.17*	55100	1.10		
	29	6130	50.86*	56800	1.30		
	33	5350	44.39	58000	1.50		
	39	4540	37.65	58900	1.75		
	45	3970	32.91	59500	2.0		
	53	3360	27.83	60100	2.3		
	50	3570	29.57*	59900	2.2	**TR 138** **MY 180M4**	160
	61	2910	24.12	60400	2.8	**TRF 138** **MY 180M4**	161
	67	2650	22.00*	60600	3.0		
	77	2300	19.04*	60800	3.5		
	87	2030	16.80*	60900	4.0		
	36	4870	40.37*	20200	0.90	**TR 108** **MY 180M4**	158
	42	4250	35.26	22000	1.00	**TRF 108** **MY 180M4**	159
	50	3560	29.49	21500	1.20		
	59	3000	24.90*	20900	1.45		
	65	2730	22.62	20600	1.60		
	73	2420	20.07	20100	1.80		
	80	2200	18.21	19700	1.95		
	94	1890	15.65	19100	2.3		
	107	1650	13.66	18500	2.6		
	126	1400	11.59	17800	3.1		
	145	1220	10.13	17200	3.5		
	186	950	7.86	16300	3.1		
	220	800	6.66	15600	3.7		
	73	2430	20.14	14900	1.05	**TR 98** **MY 180M4**	156
	80	2200	18.24	14700	1.15	**TRF 98** **MY 180M4**	157
	91	1950	16.17	14500	1.25		
	100	1760	14.62	14200	1.30		
	118	1490	12.39	13800	1.45		
	135	1310	10.83	13500	1.60		
	158	1120	9.29	13400	1.80		
	175	1010	8.39	13100	2.0		
	206	860	7.12	12600	2.3		
	236	750	6.21	12100	2.5		
	282	625	5.20	11600	2.8		
	326	545	4.50*	11100	3.0		
	110	1610	13.33	10600	0.80	**TR 88** **MY 180M4**	153
	123	1440	11.93	10400	0.85	**TRF 88** **MY 180M4**	154
	148	1190	9.90*	10200	1.00		
	160	1100	9.14*	10600	1.10		
	178	990	8.22	10300	1.15		
	205	860	7.13	10000	1.25		
	229	770	6.39	9770	1.30		
	276	640	5.30*	9350	1.40		
	349	505	4.20*	7710	1.65	**TRX 108** **MY 180M4**	130
	384	460	3.81	7580	1.80	**TRXF 108** **MY 180M4**	131
	433	410	3.38	7400	2.0		
	477	370	3.07	7250	2.2		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page
18.5	555	320	2.64*	7010	2.6	**TRX 108**	**MY 180M4**	130
	636	280	2.30	6780	3.0	**TRXF 108**	**MY 180M4**	131
	750	235	1.95	6510	3.3			
	858	205	1.71	6290	3.4			
	1015	174	1.44	6020	3.7			
	402	440	3.64*	6060	1.35	**TRX 98**	**MY 180M4**	128
	444	400	3.30	5960	1.50	**TRXF 98**	**MY 180M4**	129
	501	355	2.92	5830	1.70			
	554	320	2.64	5710	1.85			
	654	270	2.24*	5510	2.2			
	749	235	1.96	5350	2.4			
	895	197	1.64	5120	2.6			
	1035	171	1.42	4940	2.7			
	531	335	2.76*	3040	1.20	**TRX 88**	**MY 180M4**	126
	590	300	2.48	3340	1.35	**TRXF 88**	**MY 180M4**	127
	680	260	2.15	3630	1.50			
	760	235	1.93	3820	1.55			
	916	193	1.60*	3770	1.65			
	1055	168	1.39	3670	1.75			
22	9.6	22000	153.07	120000	0.80	**TR 168**	**MY 180L4**	164
	10	20100	139.98	120000	0.90	**TRF 168**	**MY 180L4**	165
	12	17500	121.81*	120000	1.05			
	14	15400	107.49	120000	1.15	**TR 168**	**MY 180L4**	164
	16	13400	93.19	120000	1.35	**TRF 168**	**MY 180L4**	165
	18	11900	82.91*	120000	1.50			
	20	10600	73.70*	120000	1.70			
	22	9670	67.40	120000	1.85			
	25	8410	58.65	120000	2.1			
	28	7420	51.76	120000	2.4			
	33	6430	44.87	120000	2.8			
	13	15700	109.31	41300	0.85	**TR 148**	**MY 180L4**	162
	15	13600	94.60*	61500	0.95	**TRF 148**	**MY 180L4**	163
	18	12000	83.47	64600	1.10			
	20	10300	72.09	67300	1.25			
	22	9610	66.99	68300	1.35	**TR 148**	**MY 180L4**	162
	24	8760	61.09	69400	1.50	**TRF 148**	**MY 180L4**	163
	28	7580	52.87	70800	1.70			
	31	6690	46.65	71600	1.95			
	36	5780	40.29	72400	2.3			
	41	5110	35.64	72900	2.5			
	49	4300	29.95	73400	3.0			
	22	9350	65.20	46900	0.85	**TR 138**	**MY 180L4**	160
	25	8480	59.17*	51900	0.95	**TRF 138**	**MY 180L4**	161
	29	7290	50.86*	54800	1.10			
	33	6370	44.39	56500	1.25			
	39	5400	37.65	57900	1.50	**TR 138**	**MY 180L4**	160
	45	4720	32.91	58700	1.70	**TRF 138**	**MY 180L4**	161
	53	3990	27.83	59500	1.90			
	50	4240	29.57*	59300	1.85	**TR 138**	**MY 180L4**	160
	61	3460	24.12	60000	2.3	**TRF 138**	**MY 180L4**	161
	67	3150	22.00*	60200	2.5			
	77	2730	19.04*	60500	2.9			
	87	2410	16.80*	60700	3.3	**TR 138**	**MY 180L4**	160
	101	2080	14.51	60900	3.9	**TRF 138**	**MY 180L4**	161
	114	1840	12.83	61000	4.4			
	42	5060	35.26	7280	0.85	**TR 108**	**MY 180L4**	158
	50	4230	29.49	20400	1.00	**TRF 108**	**MY 180L4**	159
	59	3570	24.90*	20000	1.20	**TR 108**	**MY 180L4**	158
	65	3240	22.62	19700	1.35	**TRF 108**	**MY 180L4**	159
	73	2880	20.07	19300	1.50			

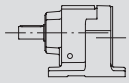
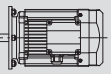
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
22	80	2610	18.21	19000	1.65	**TR 108** **MY 180L4**	158
	94	2240	15.65	18500	1.90	**TRF 108** **MY 180L4**	159
	107	1960	13.66	18000	2.2		
	126	1660	11.59	17300	2.6		
	145	1450	10.13	16800	3.0		
	171	1230	8.56	16100	3.5		
	186	1130	7.86	16100	2.6		
	220	960	6.66	15400	3.1		
	252	840	5.82	14800	3.6		
	73	2890	20.14	14000	0.90	**TR 98** **MY 180L4**	156
	80	2620	18.24	13900	0.95	**TRF 98** **MY 180L4**	157
	91	2320	16.17	13700	1.05		
	100	2100	14.62	13600	1.10		
	118	1780	12.39	13200	1.25		
	135	1550	10.83	13000	1.35		
	158	1330	9.29	13100	1.50		
	175	1200	8.39	12800	1.70		
	206	1020	7.12	12300	1.95		
	236	890	6.21	11900	2.1		
	282	745	5.20	11400	2.4		
	326	645	4.50*	10900	2.5		
	148	1420	9.90*	9640	0.85	**TR 88** **MY 180L4**	153
	160	1310	9.14*	10100	0.90	**TRF 88** **MY 180L4**	154
	178	1180	8.22	9960	1.00		
	205	1020	7.13	9700	1.05		
	229	920	6.39	9490	1.10		
	276	760	5.30*	9110	1.20		
	349	600	4.20*	7330	1.40	**TRX 108** **MY 180L4**	130
	384	545	3.81	7230	1.50	**TRXF 108** **MY 180L4**	131
	433	485	3.38	7090	1.70		
	477	440	3.07	6960	1.90		
	555	380	2.64*	6760	2.2		
	636	330	2.30	6560	2.5		
	750	280	1.95	6320	2.7		
	858	245	1.71	6120	2.9		
	1015	205	1.44	5870	3.1		
	402	520	3.64*	5720	1.15	**TRX 98** **MY 180L4**	128
	444	475	3.30	5650	1.25	**TRXF 98** **MY 180L4**	129
	501	420	2.92	5560	1.40		
	554	380	2.64	5460	1.55		
	654	320	2.24*	5300	1.85		
	749	280	1.96	5160	2.0		
	895	235	1.64	4960	2.2		
	1035	205	1.42	4790	2.2		
	531	395	2.76*	1270	1.00	**TRX 88** **MY 180L4**	126
	590	355	2.48	1710	1.15	**TRXF 88** **MY 180L4**	127
	680	310	2.15	2160	1.25		
	760	275	1.93	2450	1.30		
	916	230	1.60*	2750	1.35		
	1055	200	1.39	3030	1.45		
30	14	20900	107.49	120000	0.85	**TR 168** **MY 200L4**	164
	16	18200	93.19	120000	1.00	**TRF 168** **MY 200L4**	165
	18	16200	82.91*	120000	1.10		
	20	14400	73.70*	120000	1.25		
	22	13100	67.40	120000	1.35		
	25	11400	58.65	120000	1.55		
	28	10100	51.76	120000	1.80		
	33	8740	44.87	120000	2.1		
	37	7780	39.92	120000	2.3		
	43	6710	34.41	120000	2.7		

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page
30	53	5450	27.96	120000	3.3	**TR 168**	**MY 200L4**	164
	62	4620	23.71	120000	3.9	**TRF 168**	**MY 200L4**	165
	18	16300	83.47	32400	0.80	**TR 148**	**MY 200L4**	162
	20	14000	72.09	60400	0.95	**TRF 148**	**MY 200L4**	163
	22	13100	66.99	62500	1.00			
	24	11900	61.09	64700	1.10			
	28	10300	52.87	67300	1.25			
	32	9090	46.65	69000	1.45			
	36	7850	40.29	70500	1.65			
	41	6950	35.64	71400	1.85			
	49	5840	29.95	72300	2.2			
	61	4710	24.19	73100	2.5			
	72	3980	20.44	73600	3.0	**TR 148**	**MY 200L4**	162
	82	3510	18.04	73800	3.0	**TRF 148**	**MY 200L4**	163
	94	3050	15.64	74000	4.3			
	29	9910	50.86*	35800	0.80	**TR 138**	**MY 200L4**	160
	33	8650	44.39	51200	0.90	**TRF 138**	**MY 200L4**	161
	39	7340	37.65	54700	1.10			
	45	6410	32.91	56400	1.25			
	53	5420	27.83	57900	1.40			
	61	4700	24.12	58800	1.70	**TR 138**	**MY 200L4**	160
	67	4290	22.00*	59200	1.85	**TRF 138**	**MY 200L4**	161
	77	3710	19.04*	59800	2.2			
	88	3270	16.80*	60100	2.4			
	101	2830	14.51	59500	2.8			
	115	2500	12.83	58400	3.2			
	136	2100	10.79	56600	3.8			
	194	1480	7.59	53300	3.5			
	230	1240	6.38	51300	4.1			
	73	3910	20.07	17600	1.10	**TR 108**	**MY 200L4**	158
	81	3550	18.21	17400	1.20	**TRF 108**	**MY 200L4**	159
	94	3050	15.65	17100	1.40			
	108	2660	13.66	16800	1.60			
	127	2260	11.59	16300	1.90			
	145	1970	10.13	15900	2.2			
	172	1670	8.56	15400	2.6			
	187	1530	7.86	15500	2.0			
	221	1300	6.66	14900	2.3			
	252	1140	5.82	14400	2.6			
	299	960	4.92	13700	3.0			
	101	2850	14.62	12000	0.80	**TR 98**	**MY 200L4**	156
	119	2420	12.39	11900	0.90	**TRF 98**	**MY 200L4**	157
	136	2110	10.83	11800	1.00			
	158	1810	9.29	12300	1.10			
	175	1640	8.39	12100	1.25			
	207	1390	7.12	11700	1.45			
	237	1210	6.21	11400	1.55			
	283	1010	5.20	10900	1.75			
	327	880	4.50*	10500	1.85			
	434	660	3.38	6370	1.25	**TRX 108**	**MY 200L4**	130
	479	600	3.07	6310	1.40	**TRXF 108**	**MY 200L4**	131
	557	515	2.64*	6180	1.60			
	638	450	2.30	6050	1.85			
	752	380	1.95	5870	2.0			
	860	335	1.71	5720	2.1			
	1020	280	1.44	5520	2.3			
	503	570	2.92	3120	1.05	**TRX 98**	**MY 200L4**	128
	556	515	2.64	3560	1.15	**TRXF 98**	**MY 200L4**	129
	656	435	2.24*	4050	1.35			
	751	380	1.96	4450	1.50			

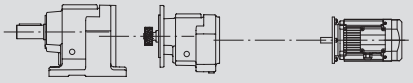
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
30	898	320	1.64	4580	1.60	**TRX 98 MY 200L4**	128
	1040	275	1.42	4450	1.65	**TRXF 98 MY 200L4**	129
37	16	22400	93.19	120000	0.80	**TR 168 MY 225S4**	164
	18	19900	82.91*	120000	0.90	**TRF 168 MY 225S4**	165
	20	17700	73.70*	120000	1.00		
	22	16200	67.40	120000	1.10		
	25	14100	58.65	120000	1.30		
	28	12400	51.76	120000	1.45		
	33	10800	44.87	120000	1.65		
	37	9600	39.92	120000	1.90		
	43	8270	34.41	120000	2.2		
	53	6720	27.96	120000	2.7		
	48	7380	30.71	120000	1.35	**TR 168 MY 225S4**	164
	60	5900	24.57	120000	2.4	**TRF 168 MY 225S4**	165
	67	5250	21.85	120000	2.5		
	77	4580	19.03	120000	3.5		
	87	4080	16.98	120000	3.7		
	22	16100	66.99	35000	0.80	**TR 148 MY 225S4**	162
	24	14700	61.09	54200	0.90	**TRF 148 MY 225S4**	163
	28	12700	52.87	63200	1.00		
	32	11200	46.65	65900	1.15		
	36	9680	40.29	68200	1.35		
	41	8570	35.64	69700	1.50		
	49	7200	29.95	71100	1.80		
	61	5810	24.19	72400	2.1		
	72	4910	20.44	73000	2.4	**TR 148 MY 225S4**	162
	82	4340	18.04	73400	2.4	**TRF 148 MY 225S4**	163
	94	3760	15.64	73700	3.5		
	106	3340	13.91	73900	3.8	**TR 148 MY 225S4**	162
						TRF 148 MY 225S4	163
	39	9050	37.65	49400	0.90	**TR 138 MY 225S4**	160
	45	7910	32.91	53600	1.00	**TRF 138 MY 225S4**	161
	53	6690	27.83	55900	1.15		
	61	5800	24.12	57300	1.40	**TR 138 MY 225S4**	160
	67	5290	22.00*	58000	1.50	**TRF 138 MY 225S4**	161
	77	4580	19.04*	57800	1.75		
	88	4040	16.80*	57300	2.0		
	101	3490	14.51	56600	2.3	**TR 138 MY 225S4**	160
	115	3080	12.83	55800	2.6	**TRF 138 MY 225S4**	161
	136	2590	10.79	54400	3.1		
	169	2090	8.71	52600	3.7		
	194	1820	7.59	51900	2.8		
	230	1530	6.38	50100	3.3		
	285	1240	5.15	47800	3.7		
	73	4820	20.07	16100	0.90	**TR 108 MY 225S4**	158
	81	4380	18.21	16100	1.00	**TRF 108 MY 225S4**	159
	94	3760	15.65	15900	1.15		
	108	3280	13.66	15700	1.30		
	127	2790	11.59	15400	1.55		
	145	2430	10.13	15100	1.75		
	172	2060	8.56	14700	2.10		
	187	1890	7.86	15000	1.55		
	221	1600	6.66	14400	1.85		
	252	1400	5.82	14000	2.1		
	299	1180	4.92	13400	2.5		
	434	810	3.38	4470	1.00	**TRX 108 MY 225S4**	130
	479	740	3.07	4950	1.10	**TRXF 108 MY 225S4**	131
	557	635	2.64*	5530	1.30		
	638	555	2.30	5610	1.50		
	752	470	1.95	5490	1.65		

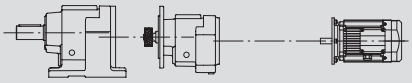
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page
37	860	410	1.71	5370	1.70	**TRX 108**	**MY 225S4**	130
	1020	345	1.44	5220	1.85	**TRXF 108**	**MY 225S4**	131
45	20	21500	73.70*	120000	0.85	**TR 168**	**MY 225M4**	164
	22	19700	67.40	120000	0.90	**TRF 168**	**MY 225M4**	165
	25	17100	58.65	120000	1.05			
	28	15100	51.76	120000	1.20			
	33	13100	44.87	120000	1.35	**TR 168**	**MY 225M4**	164
	37	11700	39.92	120000	1.55	**TRF 168**	**MY 225M4**	165
	43	10100	34.41	120000	1.80			
	53	8170	27.96	120000	2.2			
	62	6930	23.71	120000	2.6			
	48	8980	30.71	120000	1.10	**TR 168**	**MY 225M4**	164
	60	7180	24.57	120000	1.95	**TRF 168**	**MY 225M4**	165
	67	6390	21.85	120000	2.0			
	77	5560	19.03	120000	2.9			
	87	4960	16.98	120000	3.0			
	28	15500	52.87	44400	0.85	**TR 148**	**MY 225M4**	162
	32	13600	46.65	61300	0.95	**TRF 148**	**MY 225M4**	163
	36	11800	40.29	65000	1.10			
	41	10400	35.64	67200	1.25			
	49	8760	29.95	69400	1.50			
	61	7070	24.19	71300	1.70			
	72	5970	20.44	72200	2.0	**TR 148**	**MY 225M4**	162
	82	5270	18.04	72800	2.0	**TRF 148**	**MY 225M4**	163
	94	4570	15.64	73200	2.8			
	106	4070	13.91	73500	3.1			
	123	3510	11.99	73800	3.7			
	203	2120	7.25	74300	4.1			
	45	9620	32.91	41700	0.85	**TR 138**	**MY 225M4**	160
	53	8130	27.83	51200	0.95	**TRF 138**	**MY 225M4**	161
	61	7050	24.12	52400	1.15	**TR 138**	**MY 225M4**	160
	67	6430	22.00*	52900	1.25	**TRF 138**	**MY 225M4**	161
	77	5570	19.04*	53300	1.45			
	88	4910	16.80*	53400	1.65			
	101	4240	14.51	53200	1.90			
	115	3750	12.83	52800	2.1			
	136	3150	10.79	51900	2.5			
	169	2550	8.71	50500	3.1			
	194	2220	7.59	50200	2.3			
	230	1860	6.38	48700	2.7			
	285	1510	5.15	46700	3.1			
	94	4580	15.65	14600	0.95	**TR 108**	**MY 225M4**	158
	108	3990	13.66	14600	1.10	**TRF 108**	**MY 225M4**	159
	127	3390	11.59	14400	1.25			
	145	2960	10.13	14300	1.45			
	172	2500	8.56	14000	1.70			
	187	2300	7.86	14400	1.30			
	221	1950	6.66	14000	1.50			
	252	1700	5.82	13600	1.75			
	299	1440	4.92	13100	2.0			
	434	990	3.38	1360	0.85	**TRX 108**	**MY 225M4**	130
	479	900	3.07	2080	0.90	**TRXF 108**	**MY 225M4**	131
	557	770	2.64*	2970	1.10			
	638	675	2.30	3640	1.25			
	752	570	1.95	4200	1.35			
	860	500	1.71	4540	1.40			
	1020	420	1.44	4880	1.55			
55	25	20900	58.65	120000	0.85	**TR 168**	**MY 250M4**	164
	29	18400	51.76	120000	1.00	**TRF 168**	**MY 250M4**	165
	33	16000	44.87	120000	1.15			

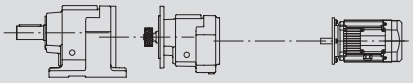
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs		Page
55	37	14200	39.92	120000	1.25	**TR 168** **MY 250M4**	164
	43	12300	34.41	120000	1.45	**TRF 168** **MY 250M4**	165
	53	9960	27.96	120000	1.80		
	62	8440	23.71	120000	2.1		
	60	8750	24.57	120000	1.60	**TR 168** **MY 250M4**	164
	68	7780	21.85	120000	1.65	**TRF 168** **MY 250M4**	165
	77	6780	19.03	120000	2.4		
	87	6050	16.98	120000	2.5		
	102	5150	14.48	120000	3.5		
	123	4270	11.99	120000	4.0		
	32	16600	46.65	26600	0.80	**TR 148** **MY 250M4**	162
	37	14300	40.29	58200	0.90	**TRF 148** **MY 250M4**	163
	41	12700	35.64	63300	1.00		
	49	10700	29.95	66800	1.20		
	61	8610	24.19	69600	1.40		
	72	7280	20.44	71100	1.65	**TR 148** **MY 250M4**	162
	82	6420	18.04	71900	1.65	**TRF 148** **MY 250M4**	163
	94	5570	15.64	72500	2.3		
	106	4950	13.91	73000	2.5		
	123	4270	11.99	73400	3.0		
	151	3470	9.74	73800	3.8		
	203	2580	7.25	74200	3.4		
	250	2100	5.89	72500	4.1		
	77	6780	19.04*	47800	1.20	**TR 138** **MY 250M4**	160
	88	5980	16.80*	48500	1.35	**TRF 138** **MY 250M4**	161
	102	5170	14.51	48900	1.55		
	115	4570	12.83	49000	1.75	**TR 138** **MY 250M4**	160
	137	3840	10.79	48800	2.1	**TRF 138** **MY 250M4**	161
	169	3100	8.71	48000	2.5		
	194	2700	7.59	48100	1.90		
	231	2270	6.38	46900	2.3		
	286	1830	5.15	45200	2.5		
75	33	21700	44.87	120000	0.85	**TR 168** **MY 280S4**	164
	37	19300	39.92	120000	0.95	**TRF 168** **MY 280S4**	165
	43	16700	34.41	120000	1.10		
	53	13500	27.96	120000	1.35		
	62	11500	23.71	120000	1.55		
	60	11900	24.57	120000	1.20	**TR 168** **MY 280S4**	164
	68	10600	21.85	120000	1.25	**TRF 168** **MY 280S4**	165
	78	9210	19.03	120000	1.75		
	87	8220	16.98	120000	1.85		
	102	7000	14.48	120000	2.6		
	123	5800	11.99	116600	2.9		
	145	4950	10.24	112800	3.4		
	49	14500	29.95	56500	0.90	**TR 148** **MY 280S4**	162
	61	11700	24.19	65100	1.00	**TRF 148** **MY 280S4**	163
	72	9890	20.44	67900	1.20	**TR 148** **MY 280S4**	162
	82	8730	18.04	69500	1.20	**TRF 148** **MY 280S4**	163
	95	7570	15.64	70800	1.70		
	106	6730	13.91	71600	1.85		
	123	5800	11.99	72400	2.2		
	152	4710	9.74	73100	2.8		
	179	4000	8.26	73500	3.3		
	204	3510	7.25	73100	2.5		
	251	2850	5.89	70100	3.0		
	296	2420	5.00	67600	3.6		
90	37	23200	39.92	120000	0.80	**TR 168** **MY 280M4**	164
	43	20000	34.41	120000	0.90	**TRF 168** **MY 280M4**	165
	53	16200	27.96	120000	1.10		
	62	13800	23.71	120000	1.30		

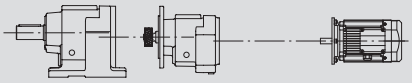
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	Fr_2 [N]	fs			Page
90	78	11100	19.03	120000	1.45	**TR 168**	**MY 280M4**	164
						TRF 168	**MY 280M4**	165
	87	9860	16.98	120000	1.50	**TR 168**	**MY 280M4**	164
	102	8410	14.48	117300	2.1	**TRF 168**	**MY 280M4**	165
	123	6960	11.99	113500	2.4			
	145	5940	10.24	110100	2.9			
	95	9080	15.64	69000	1.45	**TR 148**	**MY 280M4**	162
	106	8080	13.91	70200	1.55	**TRF 148**	**MY 280M4**	163
	123	6960	11.99	71400	1.85			
	152	5660	9.74	72500	2.3			
	179	4800	8.26	73000	2.7			
	204	4210	7.25	70900	2.1			
	251	3420	5.89	68300	2.5			
	296	2900	5.00	66100	3.0			
110	53	19800	27.96	117100	0.90	**TR 168**	**MY 315S4**	164
	63	16800	23.71	116900	1.05	**TRF 168**	**MY 315S4**	165
	78	13500	19.03	115500	1.20	**TR 168**	**MY 315S4**	164
	87	12000	16.98	114300	1.25	**TRF 168**	**MY 315S4**	165
	103	10200	14.48	112200	1.75			
	124	8480	11.99	109300	2.0			
	145	7240	10.24	106500	2.4			
132	63	20100	23.71	107900	0.90	**TR 168**	**MY 315M4**	164
	78	16200	19.03	108300	1.00	**TRF 168**	**MY 315M4**	165
	87	14400	16.98	107800	1.05			
	103	12300	14.48	106700	1.45			
	124	10200	11.99	104700	1.65			
	145	8690	10.24	102600	1.95			
160	103	14900	14.48	99700	1.20	**TR 168**	**MY 315M4A**	164
	124	12300	11.99	98900	1.40	**TRF 168**	**MY 315M4A**	165
	145	10500	10.24	97600	1.60			

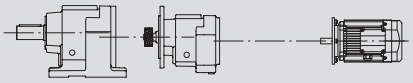
6.3 TR.. / TRF..MY.. / Performance parameter

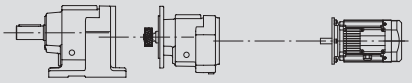
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]				Page
130	0.16	8612	4230	**TR**	**28 / TRF18**	**MY 63S4**	166
	0.19	7425	4230	**TRF**	**28 / TRF18**	**MY 63S4**	166
	0.20	6921	4230				
	0.23	6050	4230				
	0.26	5217	4230				
	0.30	4661	4230				
	0.34	4073	4230				
	0.39	3516	4230				
	0.44	3160	4230				
	0.50	2763	4230				
	0.57	2414	4230				
	0.65	2110	4230				
	0.76	1822	4230	**TR**	**28 / TRF18**	**MY 63S4**	166
	0.87	1580	4230	**TRF**	**28 / TRF18**	**MY 63S4**	166
	0.94	1464	4230				
	1.1	1270	4230				
	1.2	1100	4230				
	1.4	972	4230				
	1.6	840	4230				
	1.9	741	4230				
	2.1	654	4230				
	2.4	566	4230				
	2.8	499	4230				
	3.1	440	4230	**TR**	**28 / TRF18**	**MY 63S4**	166
	3.6	381	4230	**TRF**	**28 / TRF18**	**MY 63S4**	166
	4.2	329	4230				
	4.8	290	4230				
	5.4	256	4230				
	6.1	227	4230				
	6.8	203	4230				
	7.4	179	4230	**TR**	**28 / TRF18**	**MY 63M4**	166
	8.5	156	4230	**TRF**	**28 / TRF18**	**MY 63M4**	166
	9.8	135	4230				
	11	118	4230				
	12	104	4230	**TR**	**28 / TRF18**	**MY 63L4**	166
	14	90	4230	**TRF**	**28 / TRF18**	**MY 63L4**	166
200	0.16	8595	4950	**TR**	**38 / TRF18**	**MY 63S4**	166
	0.19	7411	4950	**TRF**	**38 / TRF18**	**MY 63S4**	166
	0.20	6907	4950				
	0.23	6038	4950				
	0.27	5206	4950				
	0.30	4651	4950				
	0.34	4065	4950				
	0.38	3658	4950				
	0.44	3154	4950				
	0.50	2757	4950				
	0.57	2409	4950				
	0.66	2106	4950				
	0.76	1818	4950	**TR**	**38 / TRF18**	**MY 63S4**	166
	0.88	1576	4950	**TRF**	**38 / TRF18**	**MY 63S4**	166
	1.0	1359	4950				
	1.1	1267	4950				
	1.3	1098	4950				
	1.4	970	4950				
	1.7	839	4950				
	1.9	740	4950				

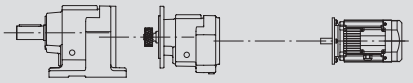
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
200	2.1	653	4950	**TR 38 / TRF18 MY 63S4**	166
	2.4	577	4950	**TRF 38 / TRF18 MY 63S4**	166
	2.8	498	4950		
	3.1	439	4950	**TR 38 / TRF18 MY 63S4**	166
	3.6	378	4950	**TRF 38 / TRF18 MY 63S4**	166
	4.2	328	4950		
	4.6	289	4950	**TR 38 / TRF18 MY 63M4**	166
	5.0	265	4950	**TRF 38 / TRF18 MY 63M4**	166
	5.8	226	4950		
	6.5	202	4950		
	7.3	179	4950	**TR 38 / TRF18 MY 63L4**	166
	8.3	156	4950	**TRF 38 / TRF18 MY 63L4**	166
	9.7	135	4950		
	10	127	4950		
	13	104	4950	**TR 38 / TRF18 MY 71D4**	166
	15	90	4950	**TRF 38 / TRF18 MY 71D4**	166
300	0.10	13598	5420	**TR 48 / TRF38 MY 63S4**	166
	0.11	12472	5420	**TRF 48 / TRF38 MY 63S4**	166
	0.13	10619	5420		
	0.15	9155	5420		
	0.16	8534	5420		
	0.18	7460	5420		
	0.20	6993	5420		
	0.22	6171	5420		
	0.25	5624	5420		
	0.28	4849	5420		
	0.31	4520	5420		
	0.35	3951	5420		
	0.37	3704	5420		
	0.42	3268	5420		
	0.48	2898	5420		
	0.56	2463	5420		
	0.53	2598	5420	**TR 48 / TRF38 MY 63S4**	166
	0.58	2383	5420	**TRF 48 / TRF38 MY 63S4**	166
	0.68	2029	5420		
	0.79	1749	5420		
	0.85	1630	5420		
	0.97	1425	5420		
	1.0	1336	5420		
	1.2	1179	5420		
	1.3	1074	5420		
	1.5	927	5420		
	1.6	863	5420		
	1.8	755	5420		
	2.5	546	5420	**TR 48 / TRF38 MY 63S4**	166
	2.8	502	5420	**TRF 48 / TRF38 MY 63S4**	166
	3.1	429	5420	**TR 48 / TRF38 MY 63M4**	166
	3.6	372	5420	**TRF 48 / TRF38 MY 63M4**	166
	3.8	348	5420		
	4.4	301	5420		
	5.1	255	5420	**TR 48 / TRF38 MY 63L4**	166
	5.7	228	5420	**TRF 48 / TRF38 MY 63L4**	166
450	0.10	14369	7110	**TR 58 / TRF38 MY 63S4**	166
	0.11	12095	7110	**TRF 58 / TRF38 MY 63S4**	166
	0.13	10860	7110		
	0.15	9445	7110		
	0.16	8480	7110		
	0.19	7312	7110		
	0.21	6521	7110		
	0.25	5585	7110		

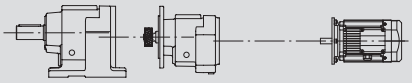
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
450	0.28	4928	7110	**TR 58 / TRF38 MY 63S4**	166
	0.32	4378	7110	**TRF 58 / TRF38 MY 63S4**	166
	0.36	3873	7110		
	0.41	3344	7110		
	0.47	2907	7110		
	0.54	2567	7110		
	0.61	2244	7110		
	0.70	1967	7110		
	0.80	1732	7110	**TR 58 / TRF38 MY 63S4**	166
	0.89	1555	7110	**TRF 58 / TRF38 MY 63S4**	166
	0.99	1399	7110		
	1.2	1189	7110		
	1.3	1034	7110		
	1.8	782	7110		
	1.9	678	7110	**TR 58 / TRF38 MY 63M4**	166
	2.2	604	7110	**TRF 58 / TRF38 MY 63M4**	166
	2.5	537	7110		
	2.8	471	7110		
	3.6	357	7110	**TR 58 / TRF38 MY 63L4**	166
	4.1	319	7110	**TRF 58 / TRF38 MY 63L4**	166
	5.1	273	7110	**TR 58 / TRF38 MY 71D4**	166
	5.7	241	7110	**TRF 58 / TRF38 MY 71D4**	166
600	0.09	15361	7560	**TR 68 / TRF38 MY 63S4**	166
	0.11	12931	7560	**TRF 68 / TRF38 MY 63S4**	166
	0.12	11996	7560		
	0.14	10097	7560		
	0.15	9066	7560		
	0.18	7816	7560		
	0.20	6732	7560		
	0.23	5970	7560		
	0.26	5268	7560		
	0.29	4680	7560		
	0.33	4136	7560		
	0.39	3566	7560		
	0.44	3125	7560		
	0.50	2745	7560		
	0.57	2403	7560		
	0.51	2682	7560	**TR 68 / TRF38 MY 63S4**	166
	0.56	2460	7560	**TRF 68 / TRF38 MY 63S4**	166
	0.66	2094	7560		
	0.76	1805	7560		
	0.85	1629	7560		
	0.94	1471	7560		
	1.0	1379	7560		
	1.8	730	7560	**TR 68 / TRF38 MY 63M4**	166
	2.3	571	7560	**TRF 68 / TRF38 MY 63M4**	166
	2.7	486	7560	**TR 68 / TRF38 MY 63L4**	166
				TRF 68 / TRF38 MY 63L4	166
	0.84	1652	7560	**TR 68 / TRF38 MY 63S4**	166
	0.96	1432	7560	**TRF 68 / TRF38 MY 63S4**	166
	1.1	1259	7560		
	1.2	1106	7560		
	1.6	836	7560	**TR 68 / TRF38 MY 63M4**	166
	1.8	750	7560	**TRF 68 / TRF38 MY 63M4**	166
	2.0	646	7560		
	2.3	574	7560		
	2.6	495	7560	**TR 68 / TRF38 MY 63L4**	166
	3.0	438	7560	**TRF 68 / TRF38 MY 63L4**	166
	3.4	388	7560		

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
600	4.0	344	7560	**TR 68 / TRF38 MY 71D4**	166
	4.7	294	7560	**TRF 68 / TRF38 MY 71D4**	166
820	0.08	16370	9920	**TR 78 / TRF38 MY 63S4**	166
	0.09	15015	9920	**TRF 78 / TRF38 MY 63S4**	166
	0.10	13885	9920		
	0.11	12783	9920		
	0.13	11021	9920		
	0.14	9788	9920		
	0.16	8714	9920		
	0.18	7617	9920		
	0.20	6770	9920		
	0.24	5838	9920		
	0.27	5184	9920		
	0.31	4470	9920		
	0.35	3999	9920		
	0.40	3488	9920		
	0.45	3053	9920		
	0.52	2671	9920		
	0.44	3151	9920	**TR 78 / TRF38 MY 63S4**	166
	0.48	2890	9920	**TRF 78 / TRF38 MY 63S4**	166
	0.56	2460	9920		
	0.65	2121	9920		
	0.70	1977	9920		
	0.80	1728	9920		
	0.85	1620	9920		
	0.97	1430	9920		
	1.1	1303	9920		
	1.2	1124	9920	**TR 78 / TRF38 MY 63M4**	166
	1.3	1047	9920	**TRF 78 / TRF38 MY 63M4**	166
	1.4	915	9920		
	1.5	858	9920		
	1.7	757	9920		
	1.9	671	9920	**TR 78 / TRF38 MY 63L4**	166
	2.3	571	9920	**TRF 78 / TRF38 MY 63L4**	166
	2.3	560	9920	**TR 78 / TRF38 MY 63L4**	166
				TRF 78 / TRF38 MY 63L4	166
	2.8	488	9920	**TR 78 / TRF38 MY 71D4**	166
	3.2	436	9920	**TRF 78 / TRF38 MY 71D4**	166
	3.7	373	9920		
	4.2	327	9920	**TR 78 / TRF38 MY 80K4**	166
	4.7	289	9920	**TRF 78 / TRF38 MY 80K4**	166
	5.2	260	9920		
1550	0.08	17452	16900	**TR 88 / TRF58 MY 63S4**	166
	0.09	15310	16900	**TRF 88 / TRF58 MY 63S4**	166
	0.10	13813	16900		
	0.11	12025	16900		
	0.13	10549	16900		
	0.15	9244	16900		
	0.17	8109	16900		
	0.20	7038	16900		
	0.22	6174	16900		
	0.25	5449	16900		
	0.29	4831	16900		
	0.33	4206	16900		
	0.37	3744	16900		
	0.43	3233	16900		
	0.48	2873	16900		
	0.67	1961	16900	**TR 88 / TRF58 MY 63M4**	166
				TRF 88 / TRF58 MY 63M4	166

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
1550	0.34	4020	16900	**TR 88 / TRF58 MY 63S4**	166
	0.43	3182	16900	**TRF 88 / TRF58 MY 63S4**	166
	0.50	2770	16900		
	0.53	2595	16900		
	0.62	2129	16900	**TR 88 / TRF58 MY 63M4**	166
	0.68	1930	16900	**TRF 88 / TRF58 MY 63M4**	166
	0.76	1733	16900		
	0.89	1489	16900		
	0.93	1395	16900	**TR 88 / TRF58 MY 63L4**	166
	1.1	1232	16900	**TRF 88 / TRF58 MY 63L4**	166
	1.1	1145	16900		
	1.2	1037	16900		
	1.7	802	16900	**TR 88 / TRF58 MY 71D4**	166
	1.8	754	16900	**TRF 88 / TRF58 MY 71D4**	166
	0.76	1737	16900	**TR 88 / TRF58 MY 63M4**	166
	0.87	1524	16900	**TRF 88 / TRF58 MY 63M4**	166
	1.0	1303	16900	**TR 88 / TRF58 MY 63L4**	166
				TRF 88 / TRF58 MY 63L4	166
	1.4	1008	16900	**TR 88 / TRF58 MY 80K4**	166
				TRF 88 / TRF58 MY 80K4	166
	1.6	885	16900	**TR 88 / TRF58 MY 71D4**	166
				TRF 88 / TRF58 MY 71D4	166
	2.0	685	16900	**TR 88 / TRF58 MY 80K4**	166
	2.3	599	16900	**TRF 88 / TRF58 MY 80K4**	166
	3.5	398	16900	**TR 88 / TRF58 MY 80N4**	166
	3.9	352	16900	**TRF 88 / TRF58 MY 80N4**	166
	4.6	305	16900	**TR 88 / TRF58 MY 90S4**	166
	5.2	268	16900	**TRF 88 / TRF58 MY 90S4**	166
	2.5	538	16900	**TR 88 / TRF58 MY 80K4**	166
	2.9	472	16900	**TRF 88 / TRF58 MY 80K4**	166
	3.5	400	16900	**TR 88 / TRF58 MY 80N4**	166
	3.8	361	16900	**TRF 88 / TRF58 MY 80N4**	166
	4.7	300	16900	**TR 88 / TRF58 MY 90S4**	166
	5.5	256	16900	**TRF 88 / TRF58 MY 90S4**	166
3000	0.06	21769	19800	**TR 98 / TRF58 MY 63S4**	166
	0.07	19332	19800	**TRF 98 / TRF58 MY 63S4**	166
	0.08	17230	19800		
	0.09	14999	19800		
	0.10	13320	19800		
	0.12	11156	19800		
	0.14	10030	19800		
	0.16	8706	19800		
	0.18	7692	19800		
	0.21	6708	19800		
	0.23	5931	19800		
	0.27	5161	19800		
	0.33	4004	19800	**TR 98 / TRF58 MY 63M4**	166
	0.38	3481	19800	**TRF 98 / TRF58 MY 63M4**	166
	0.29	4678	19800	**TR 98 / TRF58 MY 63S4**	166
				TRF 98 / TRF58 MY 63S4	166
	0.31	4309	19800	**TR 98 / TRF58 MY 63M4**	166
	0.36	3702	19800	**TRF 98 / TRF58 MY 63M4**	166
	0.44	3019	19800		
	0.49	2668	19800	**TR 98 / TRF58 MY 63L4**	166
	0.58	2245	19800	**TRF 98 / TRF58 MY 63L4**	166
	0.64	2016	19800		
	0.80	1733	19800	**TR 98 / TRF58 MY 71D4**	166
	0.85	1623	19800	**TRF 98 / TRF58 MY 71D4**	166
	0.96	1434	19800		

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
3000	1.1	1207	19800	**TR 98 / TRF58 MY 80K4**	166
	1.2	1084	19800	**TRF 98 / TRF58 MY 80K4**	166
	1.5	934	19800		
	1.6	878	19800		
	1.8	755	19800	**TR 98 / TRF58 MY 80N4**	166
				TRF 98 / TRF58 MY 80N4	166
	0.76	1823	19800	**TR 98 / TRF58 MY 71D4**	166
	0.87	1583	19800	**TRF 98 / TRF58 MY 71D4**	166
	0.99	1396	19800		
	1.10	1228	19800	**TR 98 / TRF58 MY 80K4**	166
	1.3	1069	19800	**TRF 98 / TRF58 MY 80K4**	166
	1.4	938	19800		
	1.7	824	19800	**TR 98 / TRF58 MY 80N4**	166
	1.9	737	19800	**TRF 98 / TRF58 MY 80N4**	166
	2.2	632	19800	**TR 98 / TRF58 MY 90S4**	166
	2.5	560	19800	**TRF 98 / TRF58 MY 90S4**	166
	2.9	484	19800		
	3.3	431	19800	**TR 98 / TRF58 MY 90L4**	166
	3.7	379	19800	**TRF 98 / TRF58 MY 90L4**	166
	4.2	336	19800		
	4.8	296	19800	**TR 98 / TRF58 MY 100M4**	166
	5.7	249	19800	**TRF 98 / TRF58 MY 100M4**	166
	6.0	234	19800		
	2.2	625	19800	**TR 98 / TRF58 MY 90S4**	166
	2.6	549	19800	**TRF 98 / TRF58 MY 90S4**	166
	5.2	270	19800	**TR 98 / TRF58 MY 100M4**	166
	6.2	227	19800	**TRF 98 / TRF58 MY 100M4**	166
4300	0.07	20018	29500	**TR 108 / TRF78 MY 63S4**	166
	0.08	17080	29500	**TRF 108 / TRF78 MY 63S4**	166
	0.09	14936	29500		
	0.11	12829	29500		
	0.12	11256	29500		
	0.14	9547	29500		
	0.16	8618	29500		
	0.18	7583	29500		
	0.20	6743	29500	**TR 108 / TRF78 MY 63M4**	166
	0.22	5914	29500	**TRF 108 / TRF78 MY 63M4**	166
	0.26	5168	29500		
	0.30	4435	29500		
	0.33	3896	29500	**TR 108 / TRF78 MY 63L4**	166
	0.43	3039	29500	**TRF 108 / TRF78 MY 63L4**	166
	0.34	3918	29500	**TR 108 / TRF78 MY 63M4**	166
				TRF 108 / TRF78 MY 63M4	166
	0.39	3343	29500	**TR 108 / TRF78 MY 63L4**	166
	0.43	3034	29500	**TRF 108 / TRF78 MY 63L4**	166
	0.52	2653	29500	**TR 108 / TRF78 MY 71D4**	166
	0.61	2280	29500	**TRF 108 / TRF78 MY 71D4**	166
	0.67	2067	29500		
	0.80	1693	29500	**TR 108 / TRF78 MY 80K4**	166
	0.88	1550	29500	**TRF 108 / TRF78 MY 80K4**	166
	0.97	1407	29500		
	1.1	1209	29500	**TR 108 / TRF78 MY 80N4**	166
	1.3	1055	29500	**TRF 108 / TRF78 MY 80N4**	166
	1.5	919	29500	**TR 108 / TRF78 MY 90S4**	166
	1.7	815	29500	**TRF 108 / TRF78 MY 90S4**	166
	1.9	717	29500		
	2.2	626	29500	**TR 108 / TRF78 MY 90L4**	166
	2.7	528	29500	**TRF 108 / TRF78 MY 90L4**	166
	0.69	1987	29500	**TR 108 / TRF78 MY 71D4**	166
				TRF 108 / TRF78 MY 71D4	166

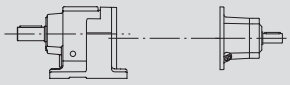
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
4300	0.74	1827	29500	**TR 108 / TRF78 MY 80K4**	166
	0.85	1599	29500	**TRF 108 / TRF78 MY 80K4**	166
	0.97	1400	29500		
	1.1	1226	29500	**TR 108 / TRF78 MY 80N4**	166
	1.2	1104	29500	**TRF 108 / TRF78 MY 80N4**	166
	1.5	939	29500		
	1.7	822	29500	**TR 108 / TRF78 MY 90S4**	166
				TRF 108 / TRF78 MY 90S4	166
	2.3	614	29500	**TR 108 / TRF78 MY 90L4**	166
	2.6	544	29500	**TRF 108 / TRF78 MY 90L4**	166
	2.9	492	29500		
	3.4	417	29500	**TR 108 / TRF78 MY 100M4**	166
	3.8	369	29500	**TRF 108 / TRF78 MY 100M4**	166
	4.4	323	29500		
	4.9	285	29500	**TR 108 / TRF78 MY 100L4**	166
	5.5	253	29500	**TRF 108 / TRF78 MY 100L4**	166
	6.6	214	29500	**TR 108 / TRF78 MY 112M4**	166
	7.6	187	29500	**TRF 108 / TRF78 MY 112M4**	166
	3.0	469	29500	**TR 108 / TRF78 MY 90L4**	166
				TRF 108 / TRF78 MY 90L4	166
	3.3	426	29500	**TR 108 / TRF78 MY 100M4**	166
	3.7	377	29500	**TRF 108 / TRF78 MY 100M4**	166
	4.4	325	29500		
	4.9	284	29500	**TR 108 / TRF78 MY 100L4**	166
	5.5	256	29500	**TRF 108 / TRF78 MY 100L4**	166
	6.5	220	29500	**TR 108 / TRF78 MY 112M4**	166
	7.3	193	29500	**TRF 108 / TRF78 MY 112M4**	166
	8.2	172	29500		
8000	0.06	22203	53400	**TR 138 / TRF78 MY 63S4**	166
	0.07	18945	53400	**TRF 138 / TRF78 MY 63S4**	166
	0.08	16566	53400		
	0.09	14777	53400		
	0.11	12921	53400		
	0.11	11712	53400	**TR 138 / TRF78 MY 63M4**	166
	0.12	10573	53400	**TRF 138 / TRF78 MY 63M4**	166
	0.15	8784	53400		
	0.17	7479	53400	**TR 138 / TRF78 MY 63L4**	166
	0.20	6559	53400	**TRF 138 / TRF78 MY 63L4**	166
	0.22	5834	53400		
	0.27	5116	53400	**TR 138 / TRF78 MY 71D4**	166
	0.31	4464	53400	**TRF 138 / TRF78 MY 71D4**	166
	0.35	3928	53400		
	0.39	3454	53400	**TR 138 / TRF78 MY 80K4**	166
	0.45	2993	53400	**TRF 138 / TRF78 MY 80K4**	166
	0.29	4709	53400	**TR 138 / TRF78 MY 71D4**	166
	0.34	4018	53400	**TRF 138 / TRF78 MY 71D4**	166
	0.39	3514	53400	**TR 138 / TRF78 MY 80K4**	166
	0.41	3338	53400	**TRF 138 / TRF78 MY 80K4**	166
	0.46	2929	53400		
	0.55	2484	53400		
	0.62	2242	53400	**TR 138 / TRF78 MY 80N4**	166
	0.74	1863	53400	**TRF 138 / TRF78 MY 80N4**	166
	0.88	1586	53400	**TR 138 / TRF78 MY 90S4**	166
	1.0	1391	53400	**TRF 138 / TRF78 MY 90S4**	166
	1.1	1256	53400		
	1.3	1105	53400	**TR 138 / TRF78 MY 90L4**	166
	1.4	1043	53400	**TRF 138 / TRF78 MY 90L4**	166
	1.6	888	53400		
	2.0	699	53400	**TR 138 / TRF78 MY 100M4**	166
	2.3	609	53400	**TRF 138 / TRF78 MY 100M4**	166

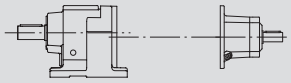
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]		Page
8000	0.51	2658	53400	**TR 138 / TRF78 MY 80K4**	166
	0.56	2412	53400	**TRF 138 / TRF78 MY 80K4**	166
	0.67	2073	53400	**TR 138 / TRF78 MY 80N4**	166
	0.75	1839	53400	**TRF 138 / TRF78 MY 80N4**	166
	0.88	1598	53400	**TR 138 / TRF78 MY 90S4**	166
	1.00	1397	53400	**TRF 138 / TRF78 MY 90S4**	166
	1.1	1226	53400		
	1.3	1090	53400	**TR 138 / TRF78 MY 90L4**	166
	1.5	951	53400	**TRF 138 / TRF78 MY 90L4**	166
	1.7	831	53400	**TR 138 / TRF78 MY 100M4**	166
	1.9	730	53400	**TRF 138 / TRF78 MY 100M4**	166
	2.2	629	53400		
	2.5	560	53400	**TR 138 / TRF78 MY 100L4**	166
	2.9	490	53400	**TRF 138 / TRF78 MY 100L4**	166
	3.3	428	53400	**TR 138 / TRF78 MY 112M4**	166
	3.7	381	53400	**TRF 138 / TRF78 MY 112M4**	166
	4.4	323	53400	**TR 138 / TRF78 MY 132S4**	166
	4.9	291	53400	**TRF 138 / TRF78 MY 132S4**	166
	5.6	255	53400		
	2.5	564	53400	**TR 138 / TRF78 MY 100L4**	166
	2.7	517	53400	**TRF 138 / TRF78 MY 100L4**	166
	3.1	453	53400		
	3.8	376	53400	**TR 138 / TRF78 MY 112M4**	166
	4.2	339	53400	**TRF 138 / TRF78 MY 112M4**	166
	4.8	297	53400	**TR 138 / TRF78 MY 132S4**	166
				TRF 138 / TRF78 MY 132S4	166
13000	0.06	23401	62700	**TR 148 / TRF78 MY 63S4**	166
	0.06	21342	62700	**TRF 148 / TRF78 MY 63S4**	166
	0.07	18210	62700	**TR 148 / TRF78 MY 63M4**	166
	0.08	15923	62700	**TRF 148 / TRF78 MY 63M4**	166
	0.09	14075	62700		
	0.11	12344	62700	**TR 148 / TRF78 MY 63L4**	166
	0.12	11143	62700	**TRF 148 / TRF78 MY 63L4**	166
	0.13	9743	62700		
	0.16	8443	62700	**TR 148 / TRF78 MY 71D4**	166
	0.19	7307	62700	**TRF 148 / TRF78 MY 71D4**	166
	0.21	6447	62700		
	0.24	5568	62700	**TR 148 / TRF78 MY 80K4**	166
	0.28	4926	62700	**TRF 148 / TRF78 MY 80K4**	166
	0.31	4325	62700		
	0.37	3754	62700	**TR 148 / TRF78 MY 80N4**	166
	0.42	3302	62700	**TRF 148 / TRF78 MY 80N4**	166
	0.48	2898	62700		
	0.55	2555	62700	**TR 148 / TRF78 MY 90S4**	166
	0.63	2211	62700	**TRF 148 / TRF78 MY 90S4**	166
	0.72	1951	62700		
	0.83	1705	62700	**TR 148 / TRF78 MY 90L4**	166
	0.92	1536	62700	**TRF 148 / TRF78 MY 90L4**	166
	1.1	1329	62700	**TR 148 / TRF78 MY 100M4**	166
	1.2	1166	62700	**TRF 148 / TRF78 MY 100M4**	166
	1.4	1029	62700		
	1.6	889	62700	**TR 148 / TRF78 MY 100L4**	166
	1.8	784	62700	**TRF 148 / TRF78 MY 100L4**	166
	2.0	695	62700	**TR 148 / TRF78 MY 112M4**	166
	2.3	619	62700	**TRF 148 / TRF78 MY 112M4**	166
	2.5	558	62700		
	2.9	489	62700	**TR 148 / TRF78 MY 132S4**	166
				TRF 148 / TRF78 MY 132S4	166

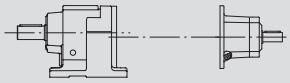
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	Fr_2 [N]				Page
13000	2.7	533	62700	TR	148 / TRF88	MY 112M4	166
				TRF	148 / TRF88	MY 112M4	166
	3.1	462	62700	TR	148 / TRF88	MY 132S4	166
	3.4	426	62700	TRF	148 / TRF88	MY 132S4	166
	3.9	368	62700	TR	148 / TRF88	MY 132M4	166
	4.4	326	62700	TRF	148 / TRF88	MY 132M4	166
	5.1	280	62700	TR	148 / TRF88	MY 132ML4	166
	5.8	247	62700	TRF	148 / TRF88	MY 132ML4	166
	6.7	214	62700	TR	148 / TRF88	MY 160M4	166
				TRF	148 / TRF88	MY 160M4	166
18000	0.05	27001	120000	TR	168 / TRF98	MY 80K4	166
	0.06	22482	120000	TRF	168 / TRF98	MY 80K4	166
	0.07	20002	120000				
	0.08	17361	120000				
	0.09	15446	120000				
	0.10	14051	120000				
	0.12	11812	120000				
	0.13	10509	120000				
	0.14	9631	120000				
	0.18	7749	120000	TR	168 / TRF98	MY 90S4	166
	0.20	6894	120000	TRF	168 / TRF98	MY 90S4	166
	0.22	6077	120000	TR	168 / TRF98	MY 80K4	166
				TRF	168 / TRF98	MY 80K4	166
	0.26	5407	120000	TR	168 / TRF98	MY 80N4	166
	0.30	4650	120000	TRF	168 / TRF98	MY 80N4	166
	0.33	4129	120000				
	0.38	3692	120000	TR	168 / TRF98	MY 90S4	166
				TRF	168 / TRF98	MY 90S4	166
	0.53	2657	120000	TR	168 / TRF98	MY 90L4	166
	0.60	2333	120000	TRF	168 / TRF98	MY 90L4	166
	0.68	2085	120000				
	0.75	1877	120000	TR	168 / TRF98	MY 100M4	166
	0.84	1670	120000	TRF	168 / TRF98	MY 100M4	166
	0.98	1438	120000				
	1.1	1279	120000	TR	168 / TRF98	MY 100L4	166
	1.2	1123	120000	TRF	168 / TRF98	MY 100L4	166
	1.4	999	120000				
	1.7	861	120000	TR	168 / TRF98	MY 112M4	166
	1.9	760	120000	TRF	168 / TRF98	MY 112M4	166
	2.2	656	120000	TR	168 / TRF98	MY 132S4	166
	2.5	579	120000	TRF	168 / TRF98	MY 132S4	166
	2.8	503	120000	TR	168 / TRF98	MY 132M4	166
	3.3	432	120000	TRF	168 / TRF98	MY 132M4	166
	3.8	376	120000	TR	168 / TRF98	MY 132ML4	166
	4.3	335	120000	TRF	168 / TRF98	MY 132ML4	166
	4.8	303	120000	TR	168 / TRF98	MY 160M4	166
	5.2	279	120000	TRF	168 / TRF98	MY 160M4	166
	4.9	295	120000	TR	168 / TRF108	MY 160M4	166
	5.3	270	120000	TRF	168 / TRF108	MY 160M4	166
	6.4	229	120000	TR	168 / TRF108	MY 160L4	166
	7.3	200	120000	TRF	168 / TRF108	MY 160L4	166
	5.0	291	120000	TR	168 / TRF108	MY 160M4	166
				TRF	168 / TRF108	MY 160M4	166
	5.5	264	120000	TR	168 / TRF108	MY 160L4	166
	6.4	227	120000	TRF	168 / TRF108	MY 160L4	166
	7.4	198	120000				

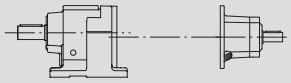
6.4 TR.. AD.. Performance parameter

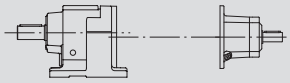
n_1= 1400 r/min

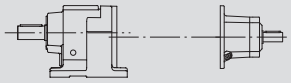
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
37	255	5.50*	1.0	3120	505	**TRX**	**58**	**AD2**	169
34	276	5.07	1.0	3050	635	**TRXF**	**58**	**AD2**	169
61	322	4.35	2.1	2690	1110	**TRX**	**58**	**AD2**	169
58	369	3.79	2.3	2560	1120	**TRXF**	**58**	**AD2**	169
55	394	3.55*	2.3	2520	1150				
65	446	3.14	3.1	2320	980				
49	481	2.91	2.5	2370	1190				
69	530	2.64*	4.0	1810	870				
69	591	2.37	4.4	1500	1860	**TRX**	**58**	**AD3**	169
69	686	2.04	5.1	1070	1810	**TRXF**	**58**	**AD3**	169
69	729	1.92*	5.4	890	1780				
69	847	1.65	6.3	430	1710				
68	948	1.48	7.0	112	1660				
63	1075	1.30	7.3	132	1700				
41	231	6.07	1.1	4020	625	**TRX**	**68**	**AD2**	169
75	270	5.18	2.2	3580	1090	**TRXF**	**68**	**AD2**	169
71	309	4.53	2.4	3420	1110	**TRX**	**68**	**AD2**	169
69	326	4.30*	2.4	3370	1130	**TRXF**	**68**	**AD2**	169
87	371	3.77	3.5	3090	880				
100	438	3.20*	4.7	2800	1700	**TRX**	**68**	**AD3**	169
105	485	2.89	5.5	2640	1600	**TRXF**	**68**	**AD3**	169
118	551	2.54	7.0	2000	1400				
123	583	2.40*	7.7	1530	1300				
114	685	2.04	8.3	1260	1310				
108	754	1.86	8.7	1180	1330				
99	870	1.61	9.2	1080	1370				
90	1000	1.40*	9.6	1030	1420				
54	175	8.00*	1.1	6350	535	**TRX**	**78**	**AD2**	169
50	188	7.47	1.0	6220	665	**TRXF**	**78**	**AD2**	169
101	218	6.41	2.4	5610	1050				
107	249	5.63	2.9	5320	970				
101	262	5.35*	2.9	5250	1020				
123	296	4.73	4.0	4900	1800	**TRX**	**78**	**AD3**	169
143	347	4.04*	5.3	4500	1570	**TRXF**	**78**	**AD3**	169
143	378	3.70	5.8	4350	1550				
182	431	3.25*	8.5	3200	3160	**TRX**	**78**	**AD4**	169
193	455	3.08*	9.5	2560	3040	**TRXF**	**78**	**AD4**	169
215	519	2.70	12.1	1110	2770				
215	576	2.43	13.4	510	2680				
200	657	2.13	14.2	435	2730				
187	745	1.88*	15.0	335	2770				
173	840	1.67	15.7	315	2820				
155	984	1.42	16.3	315	2890				
139	162	8.65	2.5	7890	1070	**TRX**	**88**	**AD2**	169
145	183	7.63	2.9	7510	1020	**TRXF**	**88**	**AD2**	169
136	194	7.20*	2.9	7390	1060				
192	217	6.45	4.5	6850	1640	**TRX**	**88**	**AD3**	169
225	252	5.56*	6.1	6320	1410	**TRXF**	**88**	**AD3**	169
215	276	5.07	6.4	6140	1440				
290	311	4.50*	9.7	5500	3010	**TRX**	**88**	**AD4**	169
305	370	3.78	12.2	5030	2840	**TRXF**	**88**	**AD4**	169
405	403	3.48	17.6	2730	5330	**TRX**	**88**	**AD5**	169
405	454	3.09	20	1950	5240	**TRXF**	**88**	**AD5**	169
405	507	2.76*	22	1200	5150				
405	564	2.48	25	470	5050				
385	650	2.15	27	42	5040				

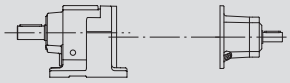
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
355	726	1.93	28	185	5140	**TRX**	**88**	**AD5**	169
315	875	1.60*	29	74	5230	**TRXF**	**88**	**AD5**	169
290	1005	1.39	31	74	5300				
225	170	8.23	4.2	9560	1710	**TRX**	**98**	**AD3**	169
260	196	7.16*	5.5	8950	1520	**TRXF**	**98**	**AD3**	169
300	214	6.56	6.9	8500	1250				
420	242	5.79	11.0	7630	2770	**TRX**	**98**	**AD4**	169
395	285	4.91	12.2	7220	2820	**TRXF**	**98**	**AD4**	169
595	309	4.52	20	6180	4970	**TRX**	**98**	**AD5**	169
595	346	4.04	22	5380	4890	**TRXF**	**98**	**AD5**	169
595	385	3.64*	25	4530	4810				
595	425	3.30	27	3730	4720				
595	479	2.92	30	2810	4620				
595	530	2.64	34	1980	4510				
595	625	2.24*	40	495	4280				
570	716	1.96	44	19	4260				
505	856	1.64	46	51	4390				
455	988	1.42	48	132	7450	**TRX**	**98**	**AD6**	169
						TRXF	**98**	**AD6**	169
460	211	6.63*	10.5	9700	2710	**TRX**	**108**	**AD4**	169
455	250	5.61	12.3	9080	2660	**TRXF**	**108**	**AD4**	169
695	270	5.19	20	7850	4720	**TRX**	**108**	**AD5**	169
695	301	4.65	23	7450	4650	**TRXF**	**108**	**AD5**	169
830	333	4.20*	30	6420	3780				
830	367	3.81	33	5550	3590				
830	414	3.38	37	4490	3340				
830	456	3.07	40	3600	6550	**TRX**	**108**	**AD6**	169
830	530	2.64*	47	2170	6340	**TRXF**	**108**	**AD6**	169
830	608	2.30	54	900	6140				
730	716	1.95	56	1260	6400				
640	820	1.71	56	1840	6690				
540	969	1.44	56	2610	7070				
130	10	135.09	0.18	4230	750	**TR**	**27**	**AD1**	169
130	11	123.91	0.19	4230	745	**TRF**	**27**	**AD1**	169
130	13	105.49	0.22	4230	745				
130	15	90.96	0.25	4230	740				
130	17	84.78	0.27	4230	740				
130	19	74.11	0.30	4230	735	**TR**	**27**	**AD1**	169
130	20	69.47	0.32	4180	730	**TRF**	**27**	**AD1**	169
130	23	61.30	0.36	3980	720				
130	25	55.87	0.39	3840	560				
130	29	48.17	0.44	3630	540				
130	31	44.90	0.48	3530	530				
130	36	39.25	0.54	3350	510				
130	38	36.79	0.58	3260	500				
130	43	32.47	0.65	3100	480				
130	49	28.78	0.73	2950	450				
130	57	24.47	0.86	2770	420				
130	49	28.37	0.74	2940	1070	**TR**	**27**	**AD2**	169
130	54	26.09	0.79	2840	1050	**TRF**	**27**	**AD2**	169
130	63	22.32	0.93	2660	1000				
130	72	19.35	1.1	2510	1550				
130	77	18.08	1.1	2440	1540				
130	90	15.63	1.3	2290	1520				
130	105	13.28*	1.5	2140	1500				
129	118	11.86	1.7	1990	1490				
122	138	10.13	1.9	1890	1490				
122	149	9.41	2.0	900	1140				
116	172	8.16	2.2	870	1150				
112	184	7.63*	2.3	900	1160				

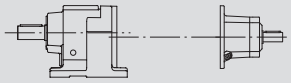
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
106	212	6.59	2.5	880	1160	**TR**	**27**	**AD2**	169
99	250	5.60*	2.7	880	1180	**TRF**	**27**	**AD2**	169
95	280	5.00*	2.9	860	1180				
87	328	4.27	3.1	920	1200				
85	350	4.00*	3.3	910	1200				
79	415	3.37	3.6	900	1190				
200	10	134.82	0.26	4950	670	**TR**	**37**	**AD1**	169
200	11	123.66	0.28	4950	660	**TRF**	**37**	**AD1**	169
200	13	105.28	0.32	4950	650				
200	15	90.77	0.37	4950	635				
200	17	84.61	0.39	4950	625				
200	19	73.96	0.45	4950	610	**TR**	**37**	**AD1**	169
200	20	69.33	0.48	4950	600	**TRF**	**37**	**AD1**	169
200	23	61.18	0.54	4950	585				
200	25	55.76	0.58	4950	340				
200	29	48.08	0.69	4950	1500	**TR**	**37**	**AD2**	169
200	31	44.81	0.73	4950	1480	**TRF**	**37**	**AD2**	169
200	36	39.17	0.83	4760	1440				
200	38	36.72	0.89	4540	1420				
200	43	32.40	0.99	4120	1380				
200	49	28.73	1.1	3740	1640				
200	57	24.42	1.3	3240	1630				
189	49	28.32	1.1	4000	450	**TR**	**37**	**AD2**	169
173	54	26.03	1.0	4180	585	**TRF**	**37**	**AD2**	169
200	63	22.27	1.4	2970	1370				
200	73	19.31	1.6	2570	1340				
200	78	18.05	1.7	2390	1330				
200	90	15.60	2.0	2010	1300				
190	106	13.25	2.2	1880	1310				
183	118	11.83	2.4	1810	1310				
170	139	10.11	2.6	1820	1310				
167	148	9.47	2.7	1760	1310				
156	176	7.97	3.0	1720	1300				
144	210	6.67	3.3	1000	910				
142	247	5.67	3.8	760	880				
135	277	5.06	4.1	790	890				
126	324	4.32	4.5	820	900				
121	346	4.05	4.6	880	910				
107	411	3.41	4.8	1070	950				
300	7.9	176.88	0.30	5420	1780	**TR**	**47**	**AD2**	169
300	8.6	162.94	0.33	5420	1780	**TRF**	**47**	**AD2**	169
300	10	139.99	0.37	5420	1780				
300	11	121.87	0.42	5420	1770				
300	12	114.17	0.45	5420	1770	**TR**	**47**	**AD2**	169
300	15	93.68	0.54	5420	1760	**TRF**	**47**	**AD2**	169
300	16	84.90	0.60	5420	1760				
300	18	76.23	0.66	5420	1750				
300	20	68.54	0.72	5420	1440				
300	22	64.21	0.77	5420	1430				
300	25	56.73	0.86	5420	1400				
300	27	52.69	0.93	5350	1370				
300	29	47.75	1.0	5150	1350				
300	33	42.87	1.1	4930	1640				
300	38	36.93	1.3	4630	1620				
300	40	34.73	1.4	4520	1610				
300	47	29.88	1.6	4240	1600				
300	52	26.70	1.8	4050	1580				
300	59	23.59	2.0	3840	1560				
225	41	33.79	1.0	4740	510	**TR**	**47**	**AD2**	169
205	45	31.12	1.0	4660	650	**TRF**	**47**	**AD2**	169

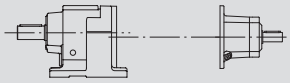
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
300	52	26.74	1.7	4050	1270	**TR**	**47**	**AD2**	169
300	60	23.28	2.0	3820	1250	**TRF**	**47**	**AD2**	169
300	64	21.81	2.1	3710	1240				
295	73	19.27	2.4	3530	1220				
290	78	17.89	2.5	3390	1210				
275	86	16.22	2.6	3350	1240				
265	96	14.56	2.8	3230	1240				
250	112	12.54	3.1	3080	1240				
245	119	11.79	3.2	3020	1240				
230	138	10.15	3.5	2890	1240				
220	154	9.07	3.7	2780	1230				
205	175	8.01	3.9	2690	1250				
163	181	7.76*	3.2	2720	1080				
159	201	6.96	3.5	2620	1070				
156	233	6.00	4.0	2470	1040				
155	248	5.64*	4.2	2410	1020				
150	288	4.85	4.7	2280	990				
146	323	4.34	5.1	2190	970				
144	365	3.83	5.8	2090	1970	**TR**	**47**	**AD3**	169
						TRF	**47**	**AD3**	169
450	7.5	186.89	0.42	7110	1690	**TR**	**58**	**AD2**	169
450	8.1	172.17	0.45	7110	1680	**TRF**	**58**	**AD2**	169
450	9.5	147.92	0.51	7110	1660				
450	11	128.77	0.58	7110	1640				
450	12	120.63	0.62	7110	1630				
450	13	106.58	0.70	7110	1610				
450	14	98.99	0.75	7110	1580				
450	16	89.71	0.83	7110	1570				
450	17	80.55	0.91	7110	1540				
450	20	69.23	1.0	7110	1010				
450	22	64.85	1.1	6980	1560				
450	24	57.29	1.3	6630	1550				
450	26	53.22	1.3	6430	1540				
450	29	48.23	1.5	6170	1530				
450	32	43.30	1.6	5900	1520				
450	38	37.30*	1.9	5530	1500				
450	40	35.07	2.0	5390	1490				
450	46	30.18	2.4	5050	1460				
450	52	26.97	2.6	4800	1430				
420	53	26.31	2.5	4860	1100	**TR**	**58**	**AD2**	169
410	56	24.99*	2.5	4780	1120	**TRF**	**58**	**AD2**	169
450	64	21.93	3.2	4370	990				
450	75	18.60*	3.7	4050	950				
450	83	16.79	4.1	3860	920				
435	95	14.77*	4.5	3690	920				
430	100	13.95*	4.8	3610	1940	**TR**	**58**	**AD3**	169
405	118	11.88	5.3	3430	1930	**TRF**	**58**	**AD3**	169
390	130	10.79	5.6	3330	1930				
370	150	9.35	6.1	3180	1920				
335	155	9.06	5.6	2900	1580				
355	176	7.97	6.8	2020	1450				
350	186	7.53	7.1	1950	1450				
335	218	6.41	8.0	1770	1410				
320	240	5.82	8.4	1820	1420				
305	277	5.05	9.2	1730	1400				
280	319	4.39	9.7	1900	1430				
600	7	199.81	0.51	7560	1510	**TR**	**68**	**AD2**	169
600	7.6	184.07	0.54	7560	1490	**TRF**	**68**	**AD2**	169
600	8.8	158.14	0.63	7560	1470				

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
600	10	137.67	0.72	7560	1440	**TR**	**68**	**AD2**	169
600	11	128.97	0.77	7560	1430	**TRF**	**68**	**AD2**	169
600	12	113.94	0.86	7560	1400				
600	13	105.83	0.92	7560	1360				
600	15	95.91	1.0	7560	1350				
600	16	86.11	1.1	7560	1630				
600	19	74.17	1.3	7560	1620				
600	20	69.75	1.4	7560	1610				
600	23	61.26	1.5	7560	1450				
600	25	56.89	1.7	7560	1430				
600	27	51.56	1.8	7560	1420				
600	30	46.29	2.0	7560	1400				
580	35	39.88*	2.3	7790	1390				
570	37	37.50	2.4	7900	1390				
540	43	32.27	2.6	8210	1390				
520	49	28.83	2.8	8400	1380				
410	50	28.13	2.2	9270	1140	**TR**	**68**	**AD2**	169
400	52	26.72	2.3	9340	1160	**TRF**	**68**	**AD2**	169
560	60	23.44	3.6	8010	800				
600	70	19.89	4.7	7560	1700	**TR**	**68**	**AD3**	169
590	78	17.95	5.1	7330	1690	**TRF**	**68**	**AD3**	169
560	89	15.79	5.5	7130	1710				
550	94	14.91	5.7	6980	1710				
520	110	12.70	6.3	6650	1700				
500	121	11.54	6.6	6500	1700				
470	140	10.00	7.2	6220	1700				
440	161	8.70*	7.7	5960	1700				
380	180	7.79	7.4	5830	1270				
370	190	7.36*	7.7	5790	1280				
330	223	6.27	8.0	5590	1350				
310	246	5.70	8.3	5450	1390				
290	284	4.93	9.0	5210	1390				
270	326	4.29	9.6	5000	1400				
820	7.2	195.24*	0.69	9920	1310	**TR**	**78**	**AD2**	169
820	8.4	166.59	0.80	9920	1270	**TRF**	**78**	**AD2**	169
820	9.6	145.67	0.92	9920	1240				
820	10	138.39	0.96	9920	1240				
820	12	121.42	1.1	9920	1620				
820	14	102.99	1.3	9920	1610				
820	15	92.97	1.4	9920	1600				
820	17	81.80	1.6	9920	1590				
820	18	77.24	1.7	9920	1580				
820	21	65.77	2.0	9920	1560				
820	24	57.68	2.2	9920	1380				
820	27	52.07	2.5	9920	1360				
820	31	45.81	2.8	9920	1350				
820	32	43.26	3.0	9920	1330				
820	38	36.83	3.5	9920	1290				
820	42	33.47	3.8	9920	1260				
820	48	29.00	4.4	9920	1220				
780	55	25.23	4.8	10100	1210				
820	60	23.37	5.4	8870	1620	**TR**	**78**	**AD3**	169
820	65	21.43	5.8	8250	1600	**TRF**	**78**	**AD3**	169
780	74	18.80	6.3	7980	1620				
780	79	17.82*	6.7	7620	1600				
740	90	15.60	7.2	7390	1610				
720	100	14.05	7.8	7050	1580				
690	114	12.33	8.5	6740	1570				
660	129	10.88	9.3	6490	1560				
630	145	9.64	10.0	6300	1550				

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
630	163	8.59	11.2	4110	2960	**TR**	**78**	**AD4**	169
610	181	7.74	12.0	3940	2930	**TRF**	**78**	**AD4**	169
580	206	6.79	13.0	3850	2940				
540	234	5.99*	13.8	3990	2980				
510	264	5.31*	14.7	3990	2990				
1550	5.7	246.54	1.0	16900	1580	**TR**	**88**	**AD2**	169
1550	6.5	216.54	1.1	16900	1570	**TRF**	**88**	**AD2**	169
1550	6.8	205.71	1.2	16900	1570				
1550	7.7	181.77	1.4	16900	1540				
1550	9	155.34	1.6	16900	1530				
1550	9.8	142.41	1.7	16900	1520				
1550	11	124.97	2.0	16900	1510				
1550	12	118.43*	2.1	16900	1500				
1550	14	103.65	2.4	16900	1480				
1550	15	93.38	2.6	16900	1460				
1550	17	81.92	3.0	16900	1440				
1550	19	72.57	3.3	16900	1150				
1550	22	63.68*	3.8	15800	1130				
1550	23	60.35*	4.0	15200	1110				
1550	27	52.82	4.6	13500	1070				
1550	29	47.58	5.1	12300	1030				
1550	34	41.74	5.8	16900	1940	**TR**	**88**	**AD3**	169
1550	38	36.84*	6.6	16800	1890	**TRF**	**88**	**AD3**	169
1550	43	32.66*	7.4	16000	1840				
1500	50	27.88	8.4	15100	1800				
1360	41	34.40*	6.0	11500	1390	**TR**	**88**	**AD3**	169
1280	45	31.40	6.2	11700	1450	**TRF**	**88**	**AD3**	169
1550	50	27.84*	8.6	15000	3190	**TR**	**88**	**AD4**	169
1550	60	23.40	10.2	13900	3120	**TRF**	**88**	**AD4**	169
1500	65	21.51	10.8	13600	3120				
1440	73	19.10	11.5	13000	3120				
1390	82	17.08*	12.4	12600	3120				
1280	105	13.33	14.7	11600	3100				
1230	117	11.93	15.7	11200	3100				
1180	141	9.90*	18.2	10400	3010				
1210	153	9.14*	20	10500	5340	**TR**	**88**	**AD5**	169
1160	170	8.22	22	10200	5360	**TRF**	**88**	**AD5**	169
1070	196	7.13	23	9780	5430				
1020	219	6.39	24	9450	5440				
910	264	5.30*	26	8980	5500				
3000	6.5	216.28	2.2	19800	2210	**TR**	**98**	**AD3**	169
3000	7.5	186.30	2.6	19800	2200	**TRF**	**98**	**AD3**	169
3000	8.2	170.02	2.8	19800	2180				
3000	9.3	150.78	3.1	19800	2170				
3000	11	126.75	3.7	19800	2140				
3000	12	116.48	4.1	19800	2120				
3000	14	103.44	4.6	19800	2100				
3000	15	92.48	5.1	19800	2070				
3000	17	83.15	5.6	19800	2040				
3000	19	72.17	6.5	18000	2000				
3000	21	65.21	7.2	19800	1540				
3000	23	59.92	7.8	19800	1500				
3000	26	53.21	8.8	19800	1450				
3000	29	47.58	9.8	19800	3440	**TR**	**98**	**AD4**	169
3000	33	42.78	10.9	19800	3390	**TRF**	**98**	**AD4**	169
3000	38	37.13	12.6	18600	3310				
2890	42	33.25	13.6	17900	3300				
2670	51	27.58	15.1	16900	3290				
2560	44	32.05	12.2	10600	2340	**TR**	**98**	**AD4**	169
2430	52	27.19	13.7	9910	2460	**TRF**	**98**	**AD4**	169

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
2830	56	25.03	17.4	15900	5270	**TR**	**98**	**AD5**	169
2720	63	22.37	19	15300	5300	**TRF**	**98**	**AD5**	169
2610	70	20.14	20	14800	5340				
2500	77	18.24	21	14400	5370				
2400	87	16.17	23	13800	5390				
2300	96	14.62	24	13400	5420				
2190	113	12.39	27	12700	5370				
2090	129	10.83	29	12100	5370				
2030	151	9.29	33	12200	4250				
2030	167	8.39	37	11700	4120				
2000	197	7.12	43	10900	3760				
1890	225	6.21	46	10500	3890				
1780	269	5.20	52	9850	6860	**TR**	**98**	**AD6**	169
1630	311	4.50*	55	9500	6930	**TRF**	**98**	**AD6**	169
4300	5.6	251.15	2.7	29500	2160	**TR**	**108**	**AD3**	169
4300	6.1	229.95	3.0	29500	2150	**TRF**	**108**	**AD3**	169
4300	6.9	203.16	3.3	29500	2130				
4300	8.1	172.34	3.9	29500	2100				
4300	8.8	158.68	4.3	29500	2090				
4300	9.9	141.83	4.8	29500	2060				
4300	11	127.68	5.3	29500	2040				
4300	12	115.63	5.9	29500	2020				
4300	14	102.53	6.5	29500	1990				
4300	15	92.70	7.2	29500	1960				
4300	18	78.57	8.5	29500	1890				
4300	19	72.88	9.2	29500	1390				
4300	21	65.60*	10.2	29200	3390	**TR**	**108**	**AD4**	169
4300	24	59.41	11.3	28000	3350	**TRF**	**108**	**AD4**	169
4300	27	52.68	12.7	26600	3300				
4300	29	47.63	14.1	25500	3250				
4300	35	40.37*	16.6	23800	3140				
4300	40	35.26	19	22400	3060				
4300	47	29.49	23	20700	2920				
4300	46	30.77	21	21100	4790	**TR**	**108**	**AD5**	169
4300	51	27.58	24	20100	4710	**TRF**	**108**	**AD5**	169
4300	56	24.90*	26	19200	4580				
4300	62	22.62	29	18300	4490				
4300	70	20.07	33	17300	4390				
4300	77	18.21	36	16600	4280				
4300	89	15.65	42	15400	4030				
4300	102	13.66	48	14400	6880	**TR**	**108**	**AD6**	169
4280	121	11.59	56	13300	6630	**TRF**	**108**	**AD6**	169
3740	138	10.13	56	13300	6920				
3160	163	8.56	56	13200	7270				
2900	178	7.86	56	13900	6200				
2460	210	6.66	56	13500	6640				
2150	240	5.82	56	13200	6920				
2000	284	4.92	62	12500	6940				
8000	6.3	222.60*	5.7	53400	3730	**TR**	**138**	**AD4**	169
8000	7.4	188.45	6.7	53400	3690	**TRF**	**138**	**AD4**	169
8000	8	174.40*	7.2	53400	3660				
8000	9	156.31	8.1	53400	3630				
8000	9.9	141.12*	8.8	53400	3580				
8000	11	128.18	9.7	53400	3550				
8000	12	113.72	11.0	53400	3510				
8000	14	103.20*	12.1	53400	3470				
8000	16	88.70*	14.1	53400	3400				
8000	17	80.91*	15.4	53400	2760				
8000	19	73.49	17	53400	2700				
8000	21	65.20	19	53400	2640				
8000	24	59.17*	21	53400	2570				

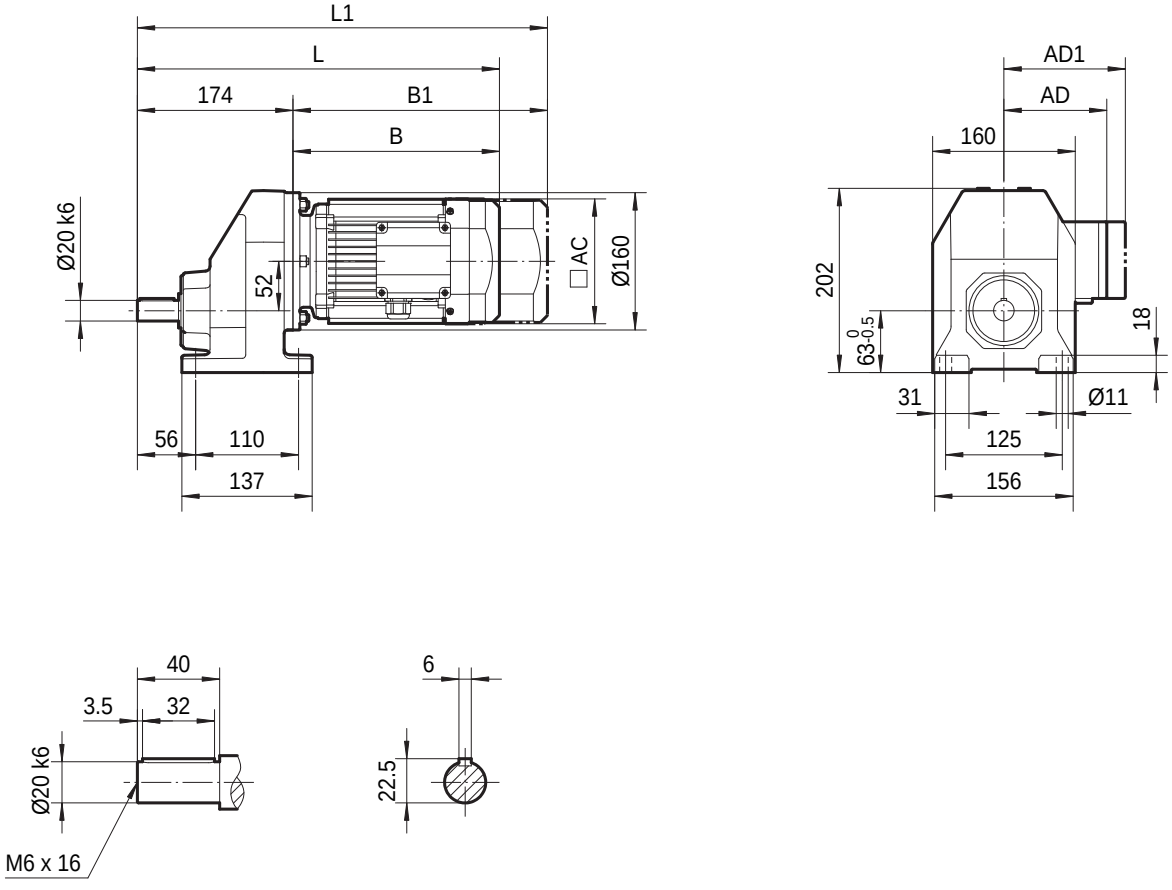
$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
8000	28	50.86*	25	53400	5660	**TR**	**138**	**AD5**	169
8000	32	44.39	28	53400	5550	**TRF**	**138**	**AD5**	169
8000	37	37.65	33	53400	5380				
8000	43	32.91	38	53400	5230				
7680	50	27.83	43	54100	5150				
7780	47	29.57*	40	53900	5130	**TR**	**138**	**AD6**	169
8000	58	24.12	51	49400	4260	**TRF**	**138**	**AD6**	169
8000	64	22.00*	56	47100	11600	**TR**	**138**	**AD7**	169
8000	74	19.04*	64	43500	10600	**TRF**	**138**	**AD7**	169
8000	83	16.80*	73	40600	9800				
8000	96	14.51	83	37300	8660				
7390	109	12.83	87	37400	9730				
7200	130	10.79	101	34700	8730				
6900	161	8.71	120	31900	7420				
4600	184	7.59	92	41100	8330				
4400	219	6.38	104	38900	7810				
4100	272	5.15	120	36600	7290				
13000	8.6	163.31	12.4	62700	2960	**TR**	**148**	**AD4**	169
13000	9.5	146.91	13.8	62700	2910	**TRF**	**148**	**AD4**	169
13000	12	119.86	16.9	62700	2770				
13000	13	109.31	19	62700	2720				
13000	15	94.60*	21	62700	2620				
13000	17	83.47	24	62700	2530				
13000	19	72.09	28	62700	5660	**TR**	**148**	**AD5**	169
13000	21	66.99	30	62700	4520	**TRF**	**148**	**AD5**	169
13000	23	61.09	33	62700	4440				
13000	26	52.87	38	62700	4280				
13000	30	46.65	43	62700	4150				
13000	35	40.29	50	62700	6940	**TR**	**148**	**AD6**	169
						TRF	**148**	**AD6**	169
13000	39	35.64	56	62700	16800	**TR**	**148**	**AD7**	169
13000	47	29.95	67	62700	16600	**TRF**	**148**	**AD7**	169
11900	58	24.19	76	64700	16500				
11700	69	20.44	87	65100	23700	**TR**	**148**	**AD8**	169
10300	78	18.04	87	67300	24200	**TRF**	**148**	**AD8**	169
13000	90	15.64	127	62700	22300				
12300	101	13.91	134	64000	22500				
10600	117	11.99	135	66900	23200				
8650	144	9.74	136	67500	23900				
7340	169	8.26	136	66900	24400				
6440	193	7.25	136	65300	23200				
5230	238	5.89	136	64000	23900				
4430	280	5.00	135	62600	24400				
18000	6.1	229.71	12.3	120000	6070	**TR**	**168**	**AD5**	169
18000	7.5	186.93*	15.0	120000	5990	**TRF**	**168**	**AD5**	169
18000	9.2	153.07	18.3	120000	5860				
18000	10	139.98	20	120000	5820				
18000	11	121.81*	23	120000	5740				
18000	13	107.49	26	120000	5660				
18000	15	93.19	30	120000	5550				
18000	17	82.91*	34	120000	5450				
18000	19	73.70*	38	120000	3300				
18000	21	67.40	41	120000	6660	**TR**	**168**	**AD6**	169
18000	24	58.65	47	120000	6500	**TRF**	**168**	**AD6**	169
18000	27	51.76	54	120000	6350				
18000	31	44.87	62	120000	15800	**TR**	**168**	**AD7**	169
18000	35	39.92	70	120000	15100	**TRF**	**168**	**AD7**	169
18000	41	34.41	81	120000	14300				
18000	50	27.96	99	120000	25500	**TR**	**168**	**AD8**	169
18000	59	23.71	117	116500	25100	**TRF**	**168**	**AD8**	169

$M_{2\,max}$ [Nm]	n_2 [r/min]	i	P_{1n} [kW]	Fr_2 [N]	Fr_1 [N]				Page
7000	30	46.00	23	120000	4510	**TR**	**168**	**AD5**	169
						TRF	**168**	**AD5**	169
9000	37	37.74	36	120000	6220	**TR**	**168**	**AD6**	169
10000	46	30.71	50	120000	4480	**TRF**	**168**	**AD6**	169
14000	57	24.57	87	120000	23600	**TR**	**168**	**AD8**	169
13000	64	21.85	91	120000	23900	**TRF**	**168**	**AD8**	169
16000	74	19.03	128	111400	22200				
15000	82	16.98	134	108900	22400				
18000	97	14.48	188	93800	20300				
17000	117	11.99	214	88700	20100				
17000	137	10.24	251	82500	19300				

7. OUTLINE DIMENSION SHEET

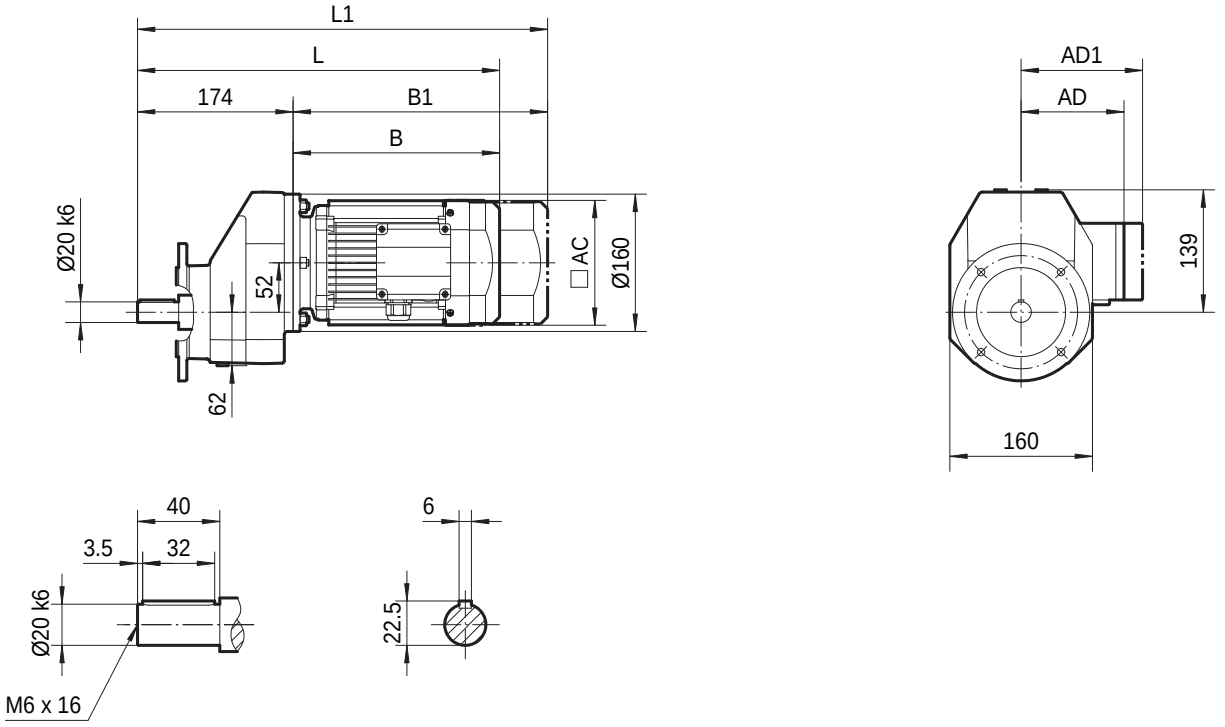
7.1 TR.. Outline Dimension

TRX58..

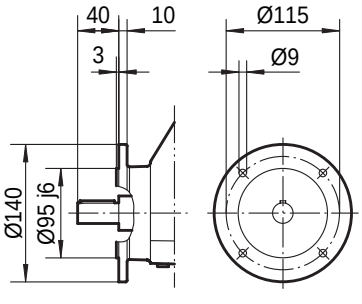


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S			
AC	118	134	142	158	182	182	206	206			
AD	110	122	129	137	165	165	178	178			
AD1	115	127	134	142	165	165	178	178			
B	185	199	250	290	309	339	354	402			
B1	233	249	304	360	379	409	434	482			
L	359	373	424	464	483	513	528	576			
L1	407	423	478	534	553	583	608	656			

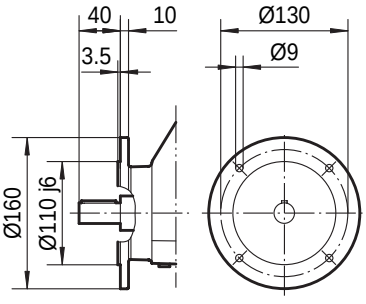
TRXF58..



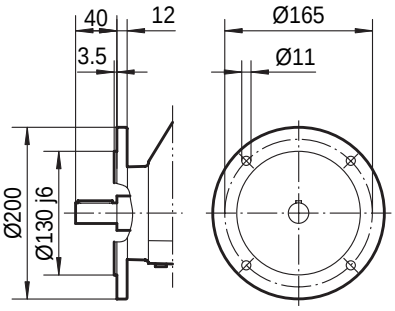
I Ø140



II Ø160

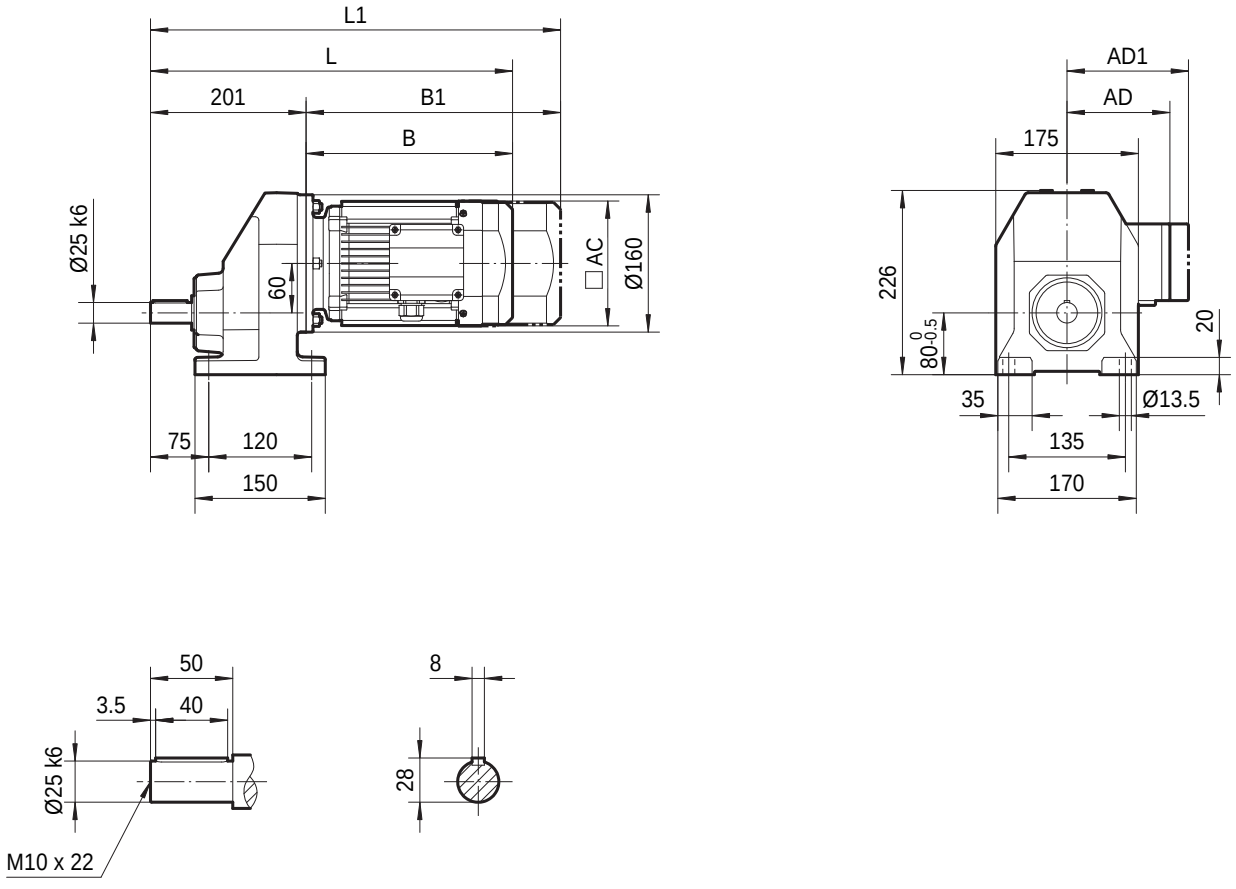


III Ø200



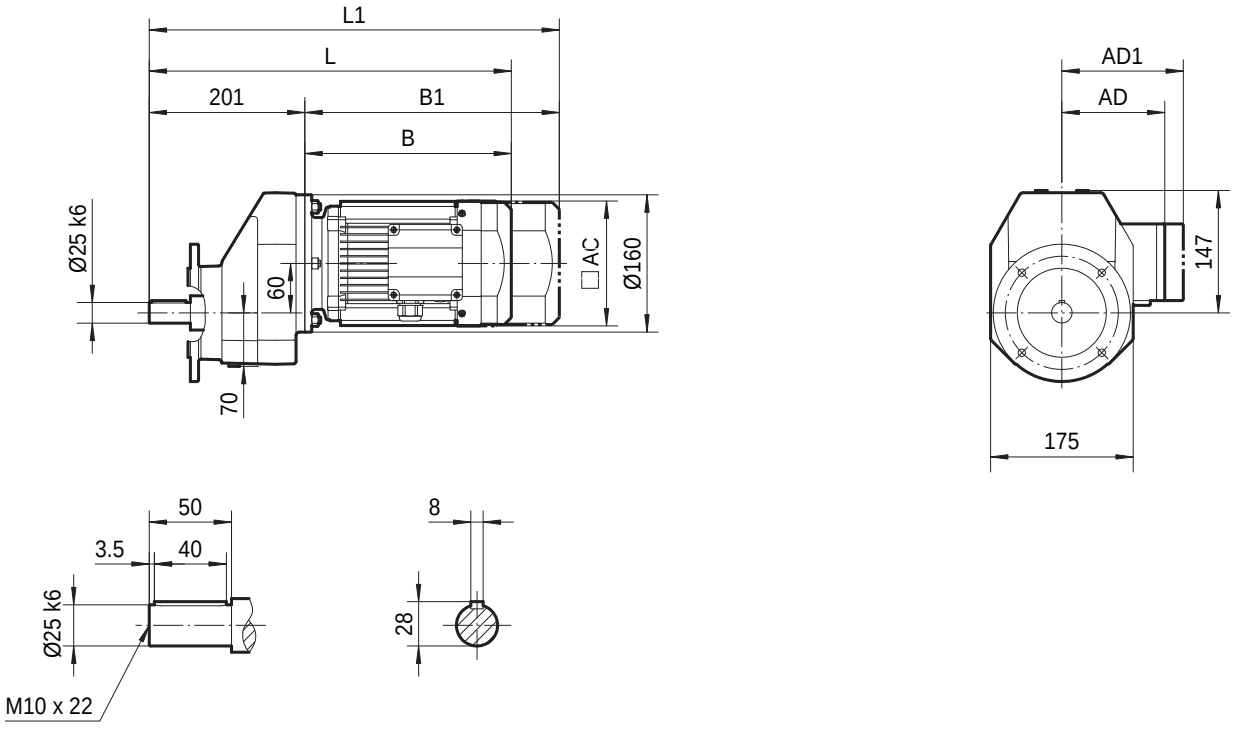
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S			
AC	118	134	142	158	182	182	206	206			
AD	110	122	129	137	165	165	178	178			
AD1	115	127	134	142	165	165	178	178			
B	185	199	250	290	309	339	354	402			
B1	233	249	304	360	379	409	434	482			
L	359	373	424	464	483	513	528	576			
L1	407	423	478	534	553	583	608	656			

TRX68..

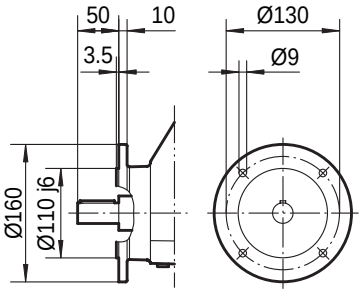


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	386	400	451	491	510	540	555	603	625		
L1	434	450	505	561	580	610	635	683	735		

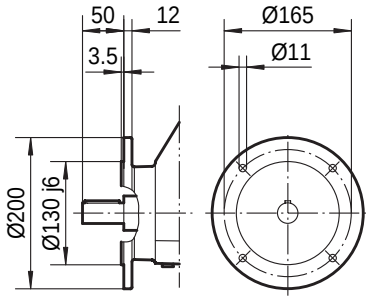
TRXF68..



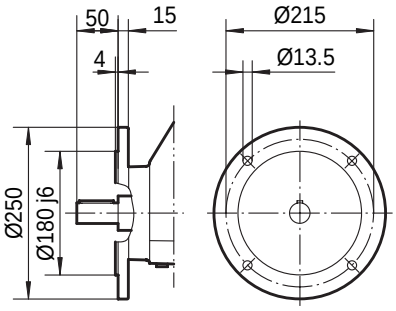
I Ø160



II Ø200

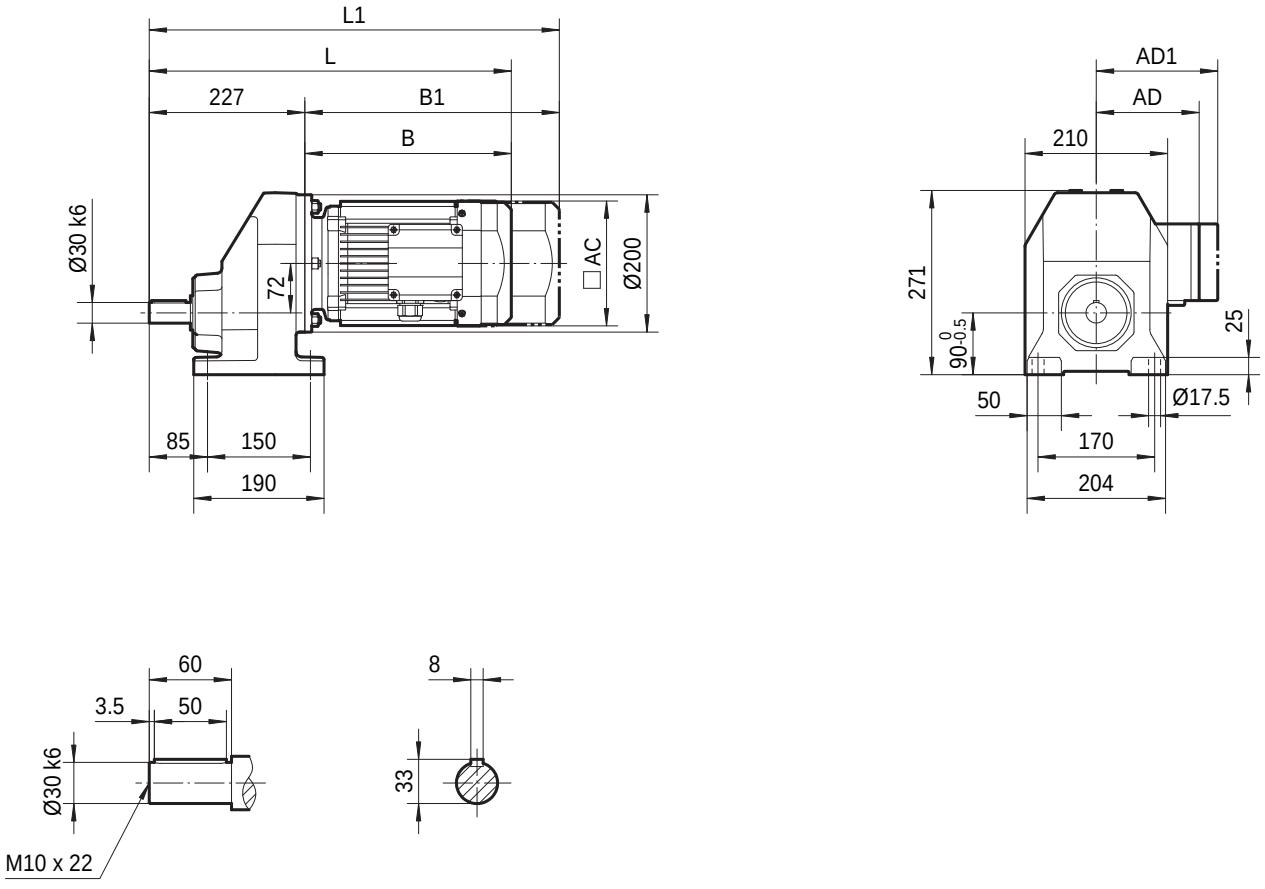


III Ø250



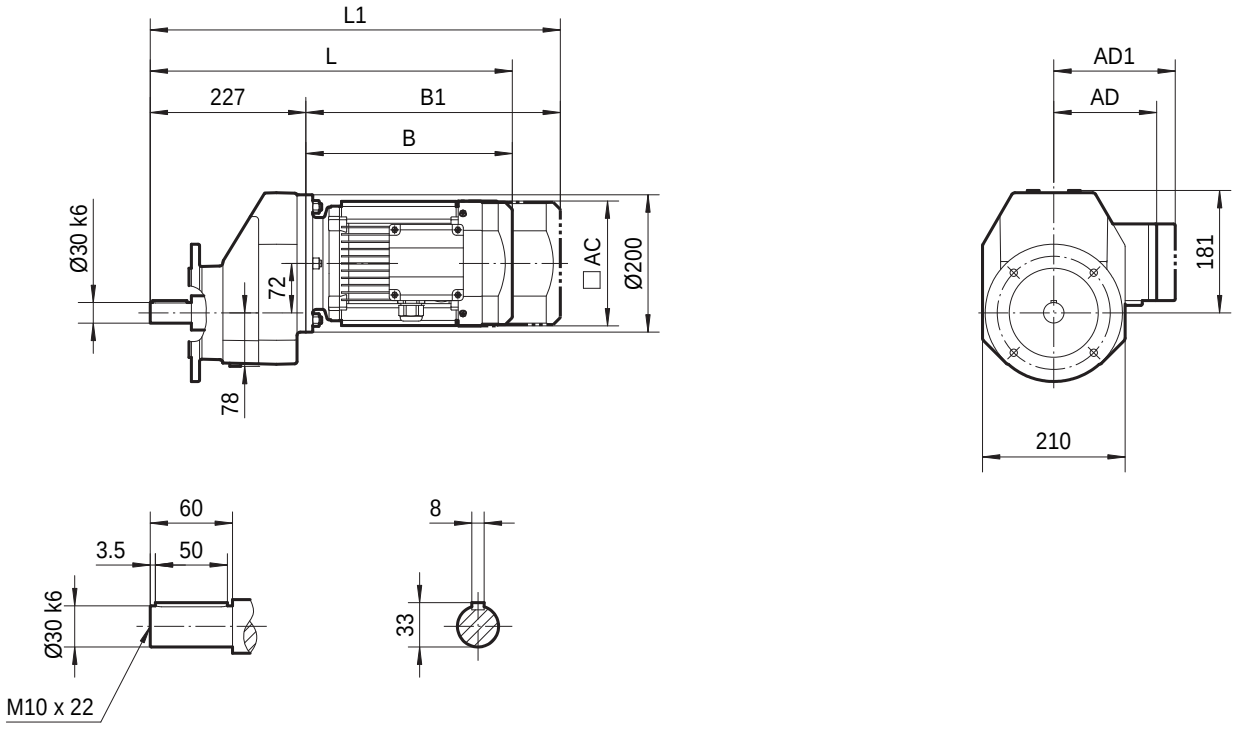
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	386	400	451	491	510	540	555	603	625		
L1	434	450	505	561	580	610	635	683	735		

TRX78..



	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M			
AC	158	182	182	206	206	252	252	252			
AD	137	165	165	178	178	227	227	227			
AD1	142	165	165	178	178	227	227	227			
B	282	301	331	345	390	412	472	472			
B1	352	371	401	425	470	522	582	582			
L	509	528	558	572	617	639	699	699			
L1	579	598	628	652	697	749	809	809			

TRXF78..



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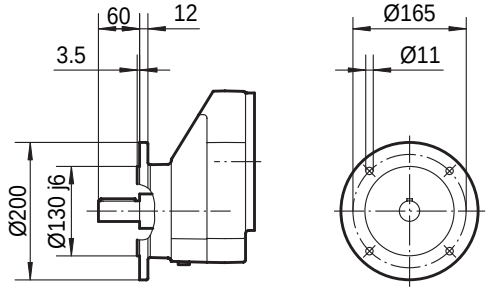
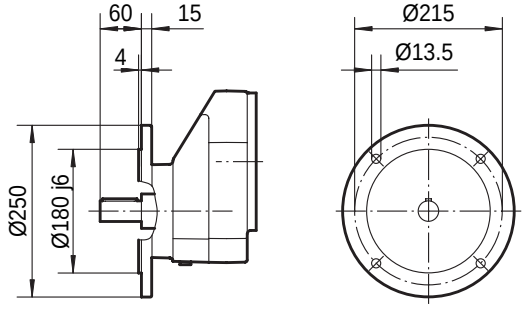
Ø200



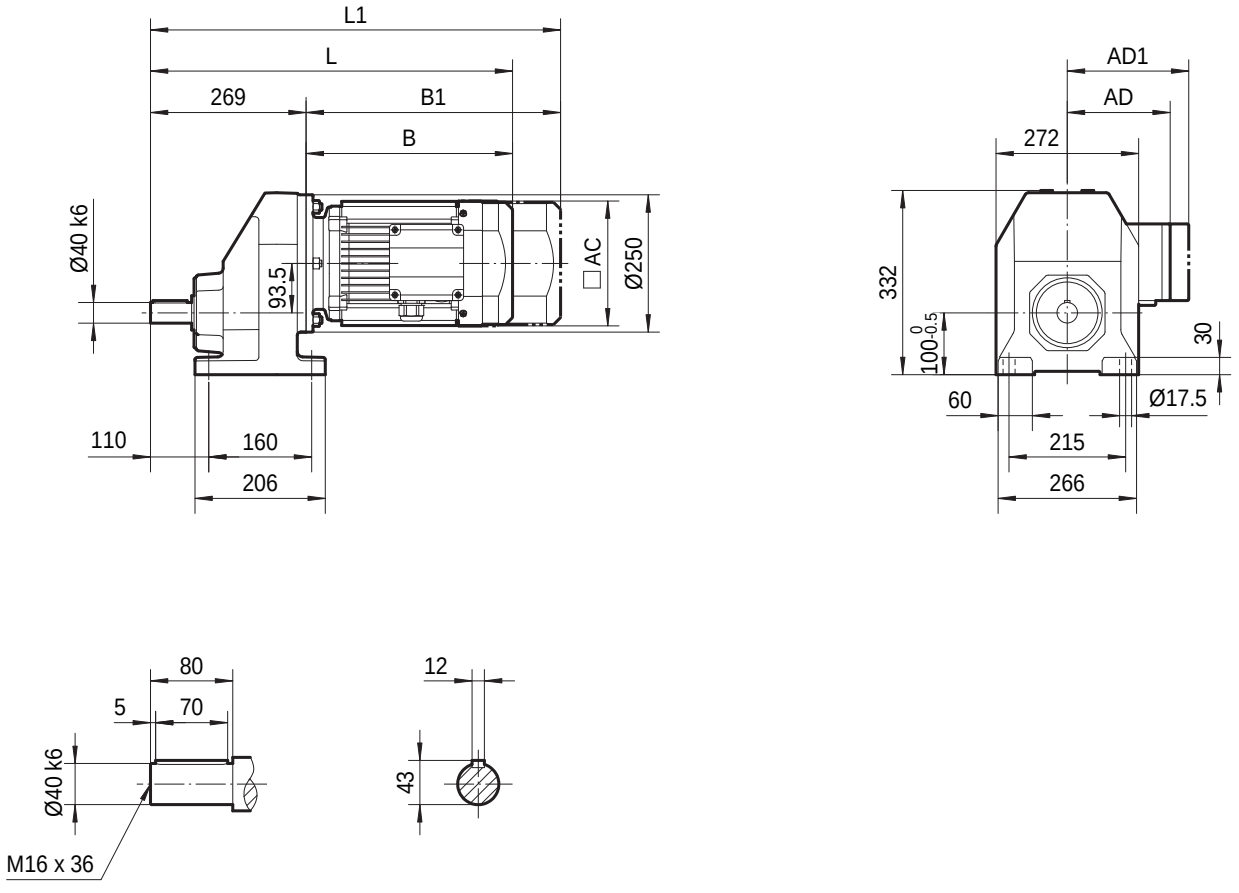
II

Ø250



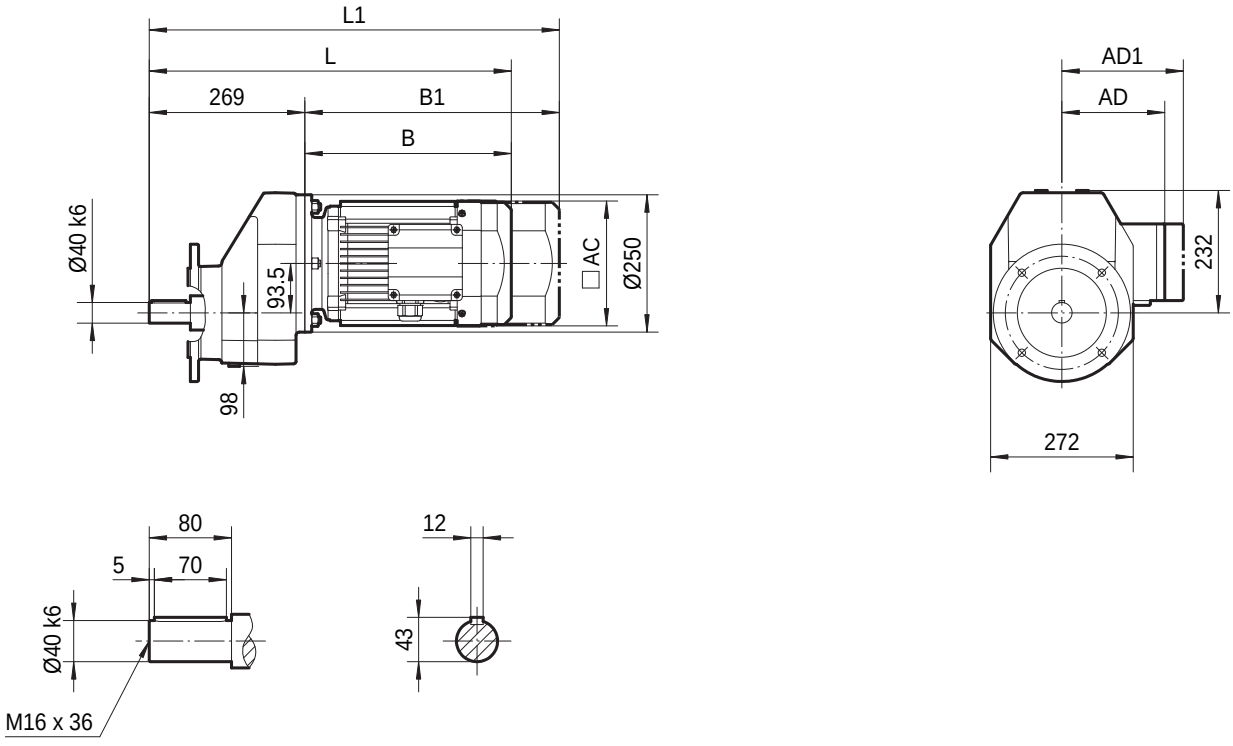
	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M			
AC	158	182	182	206	206	252	252	252			
AD	137	165	165	178	178	227	227	227			
AD1	142	165	165	178	178	227	227	227			
B	282	301	331	345	390	412	472	472			
B1	352	371	401	425	470	522	582	582			
L	509	528	558	572	617	639	699	699			
L1	579	598	628	652	697	749	809	809			

TRX88..



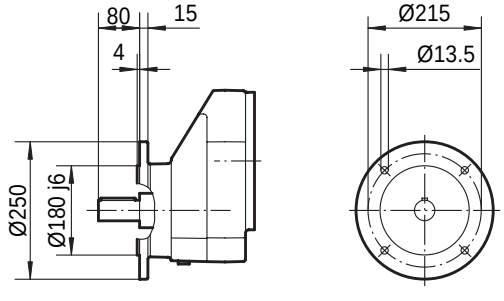
	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..			
AC	182	206	206	252	252	252	310	310			
AD	165	178	178	227	227	227	252	252			
AD1	165	178	178	227	227	227	252	252			
B	327	340	385	407	467	467	534	594			
B1	397	420	465	517	577	577	664	724			
L	596	609	654	676	736	736	803	863			
L1	666	689	734	786	846	846	933	993			

TRXF88..



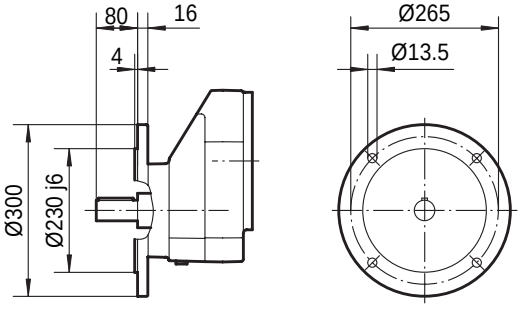
I

Ø250



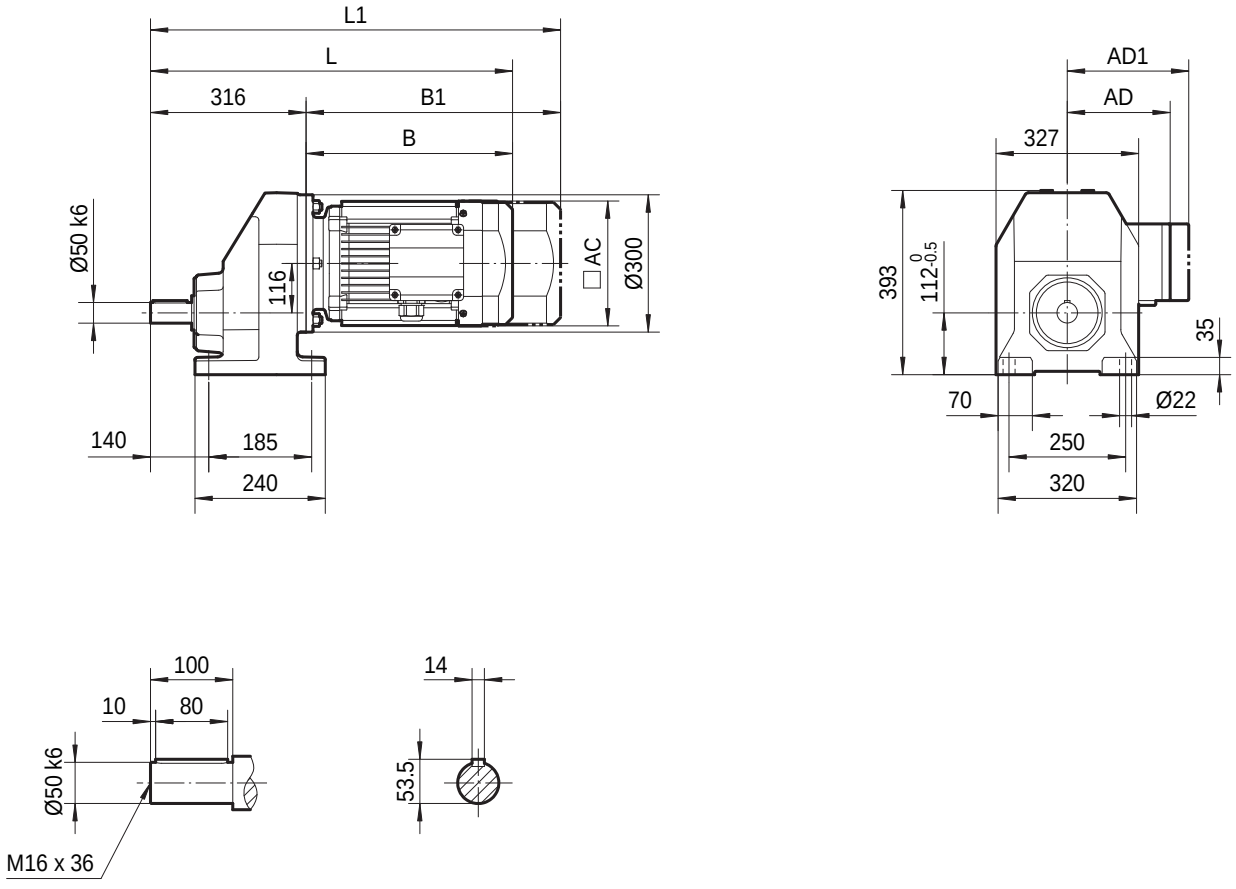
II

Ø300



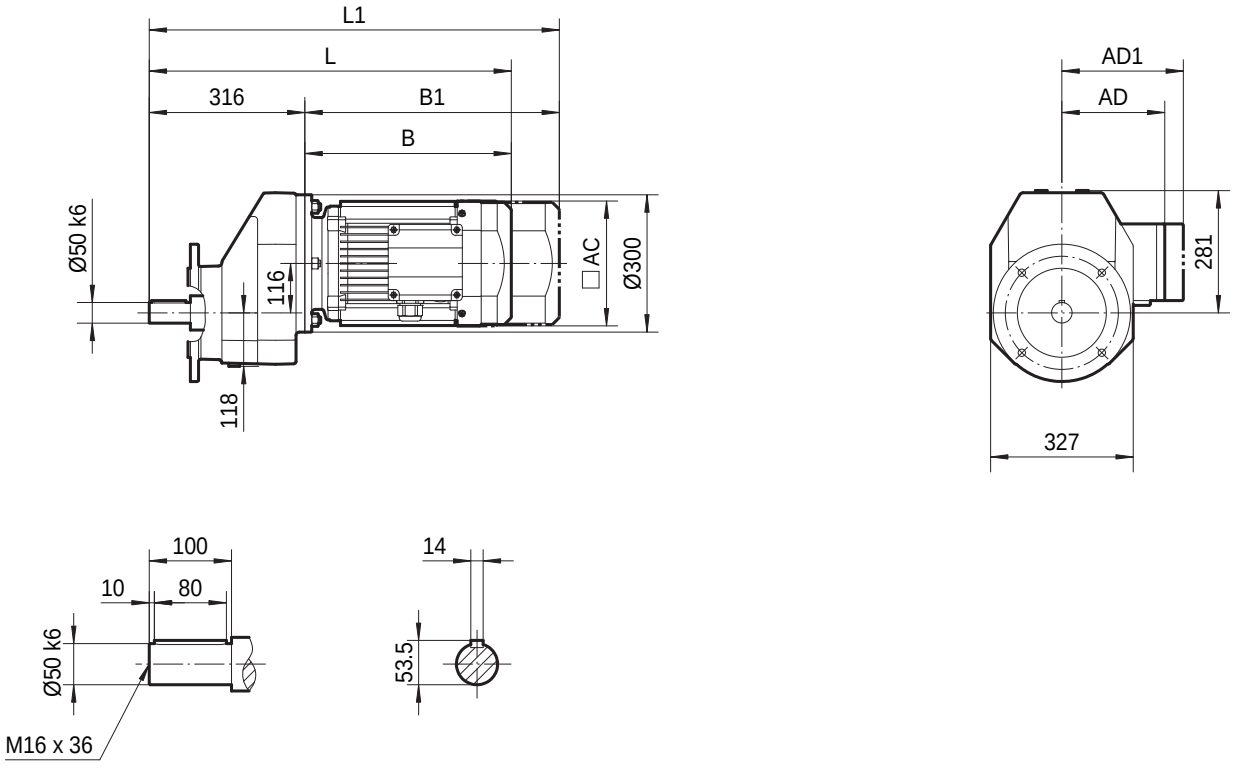
	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..			
AC	182	206	206	252	252	252	310	310			
AD	165	178	178	227	227	227	252	252			
AD1	165	178	178	227	227	227	252	252			
B	327	340	385	407	467	467	534	594			
B1	397	420	465	517	577	577	664	724			
L	596	609	654	676	736	736	803	863			
L1	666	689	734	786	846	846	933	993			

TRX98..



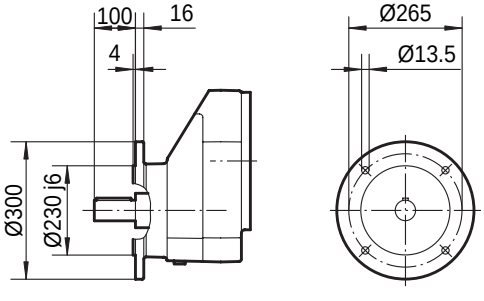
	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..				
AC	206	252	252	252	310	310	394				
AD	178	227	227	227	252	252	285				
AD1	178	227	227	227	252	252	285				
B	380	402	462	462	529	589	629				
B1	460	512	572	572	659	719	785				
L	696	718	778	778	845	905	945				
L1	776	828	888	888	975	1035	1101				

TRXF98..



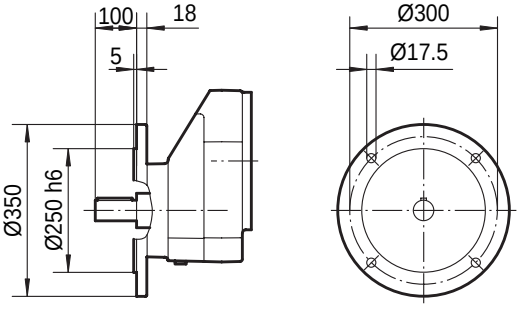
I

Ø300



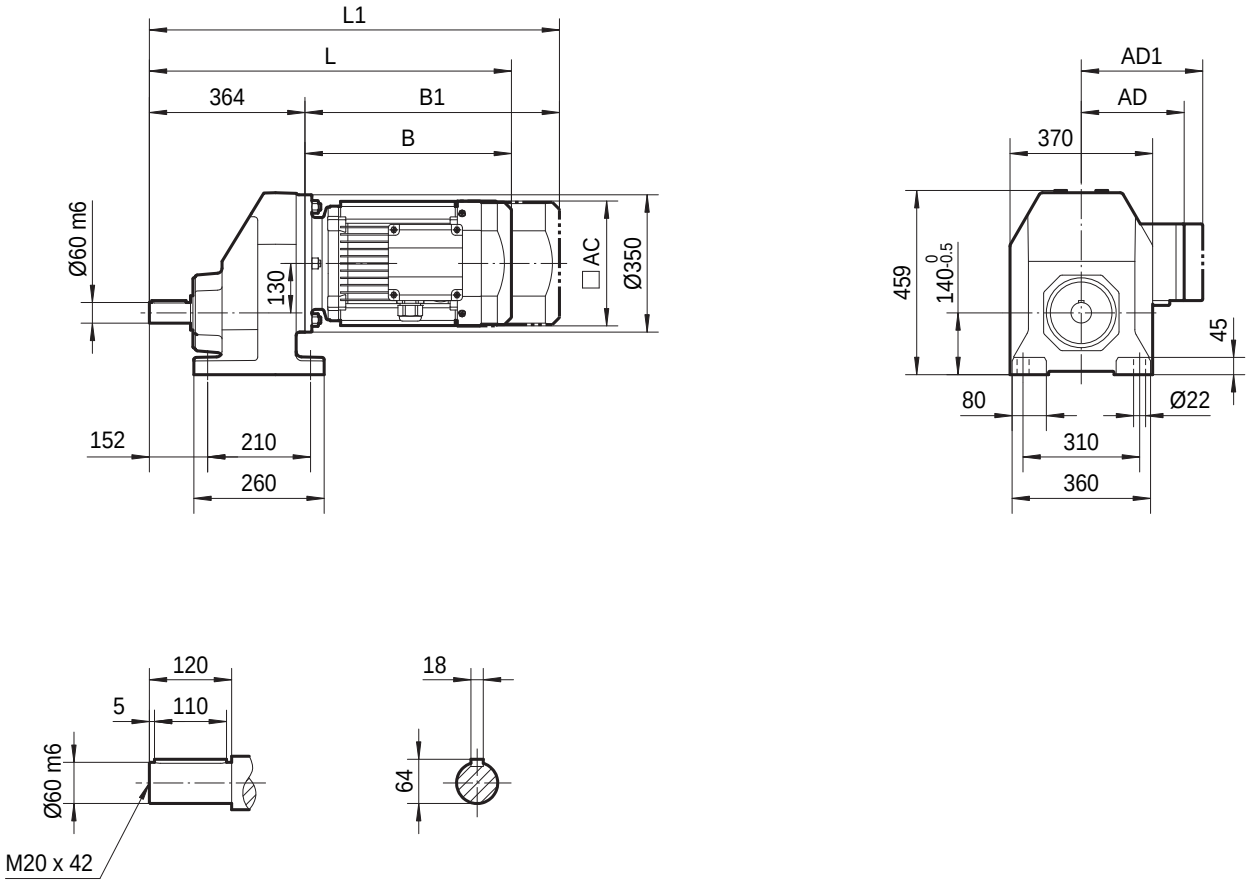
II

Ø350



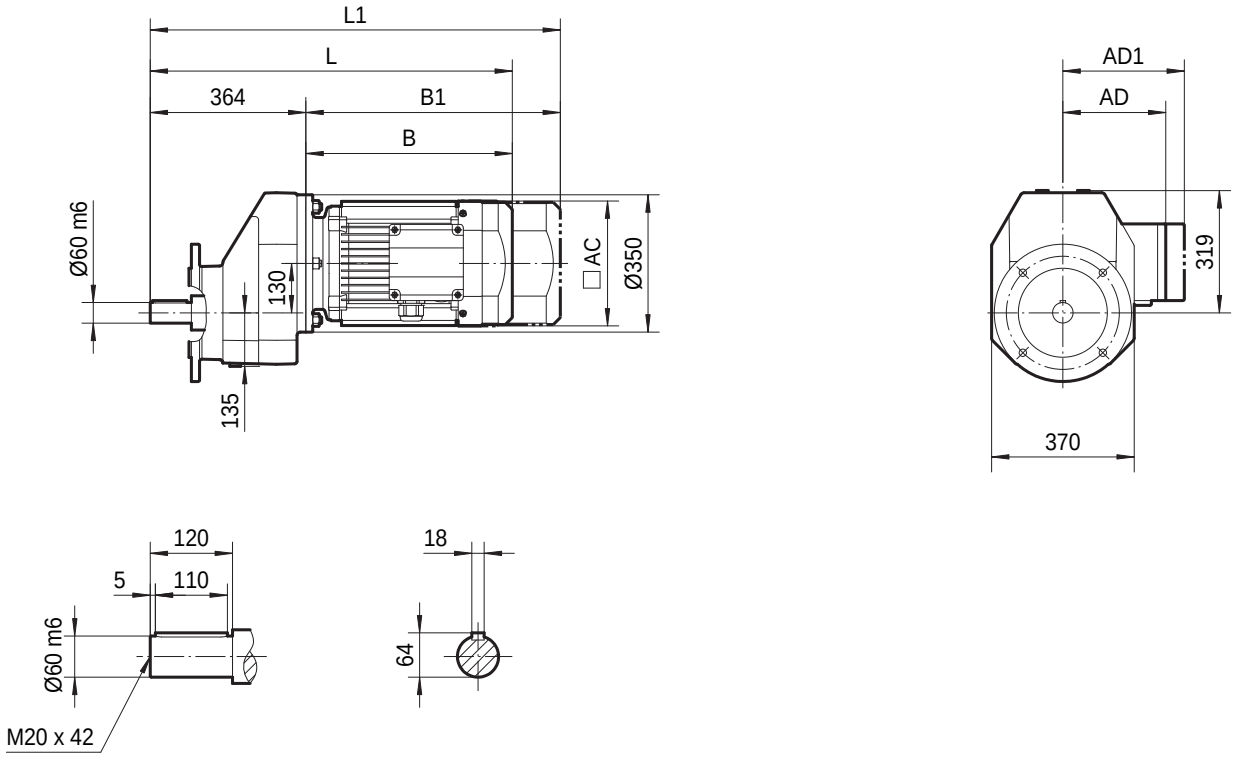
	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..				
AC	206	252	252	252	310	310	394				
AD	178	227	227	227	252	252	285				
AD1	178	227	227	227	252	252	285				
B	380	402	462	462	529	589	629				
B1	460	512	572	572	659	719	785				
L	696	718	778	778	845	905	945				
L1	776	828	888	888	975	1035	1101				

TRX108..



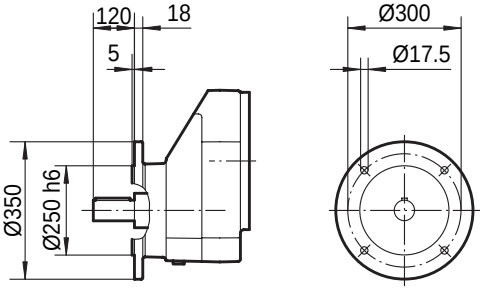
	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..			
AC	206	252	252	252	310	310	394	394			
AD	178	227	227	227	252	252	285	289			
AD1	178	227	227	227	252	252	285	289			
B	374	396	456	456	523	583	623	705			
B1	454	506	566	566	653	713	779	861			
L	738	760	820	820	887	947	987	1069			
L1	818	870	930	930	1017	1077	1143	1225			

TRXF108..



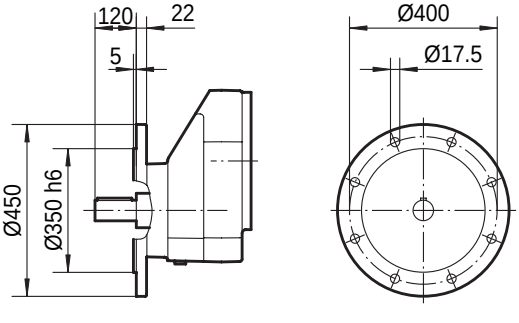
I

Ø350



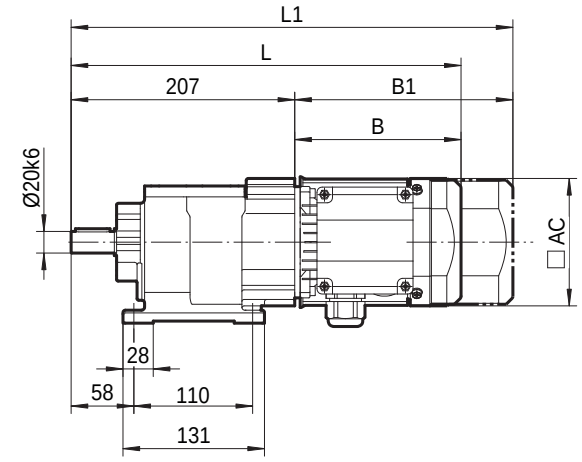
II

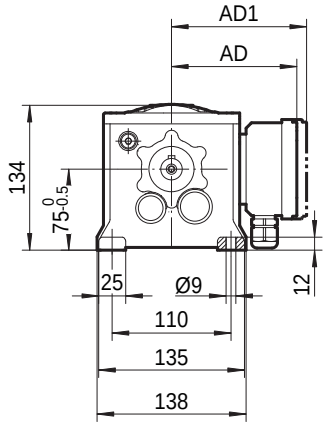
Ø450

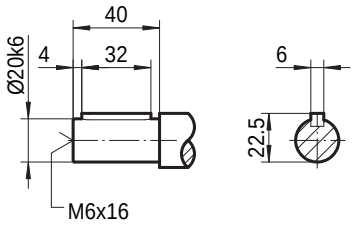


	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..			
AC	206	252	252	252	310	310	394	394			
AD	178	227	227	227	252	252	285	289			
AD1	178	227	227	227	252	252	285	289			
B	374	396	456	456	523	583	623	705			
B1	454	506	566	566	653	713	779	861			
L	738	760	820	820	887	947	987	1069			
L1	818	870	930	930	1017	1077	1143	1225			

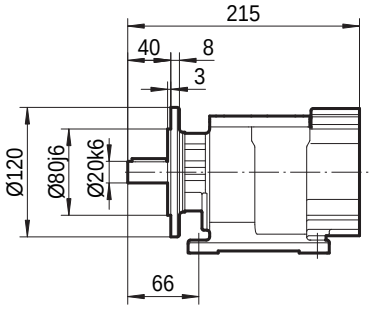
TR18..

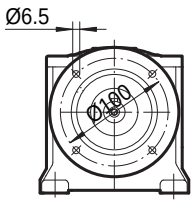






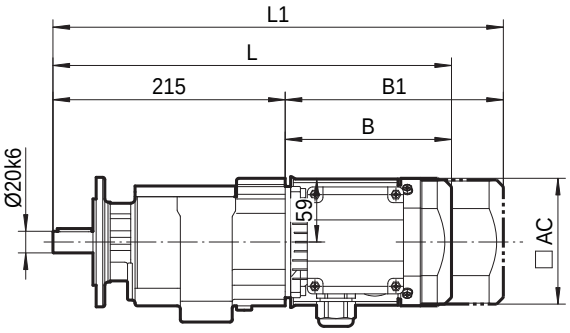
TR18F..

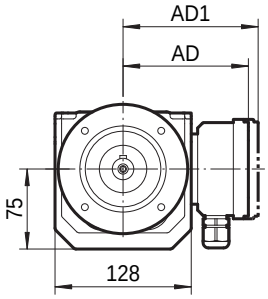


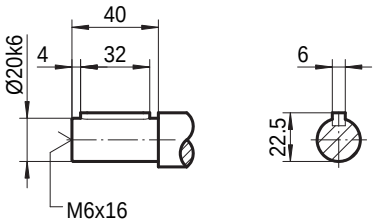


	MY63..	MY71D	MY80..								
AC	118	134	142								
AD	110	122	129								
AD1	115	127	134								
B	149	164	205								
B1	197	214	259								
L	356	371	412								
L1	404	421	466								

TRF18..

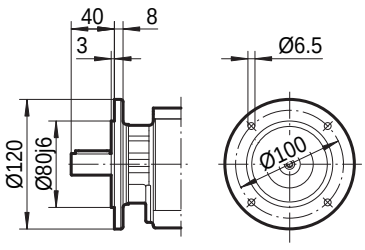






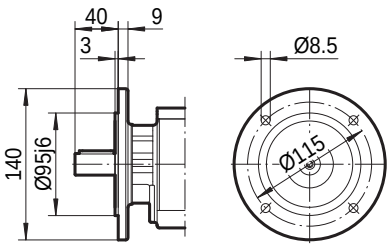
I

Ø120



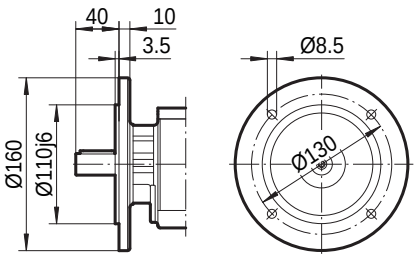
I

Ø140



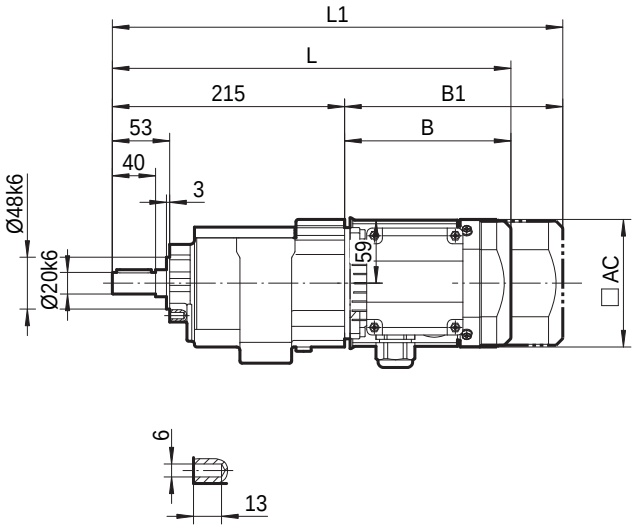
II

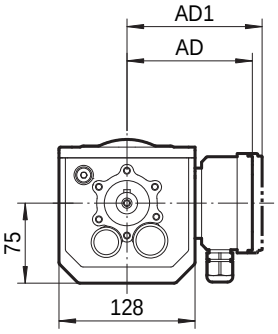
Ø160

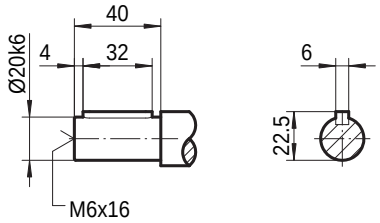


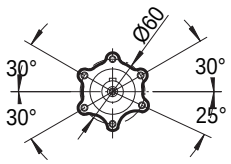
	MY63..	MY71D	MY80..								
AC	118	134	142								
AD	110	122	129								
AD1	115	127	134								
B	149	164	205								
B1	197	214	259								
L	364	379	420								
L1	412	429	474								

TRZ18..



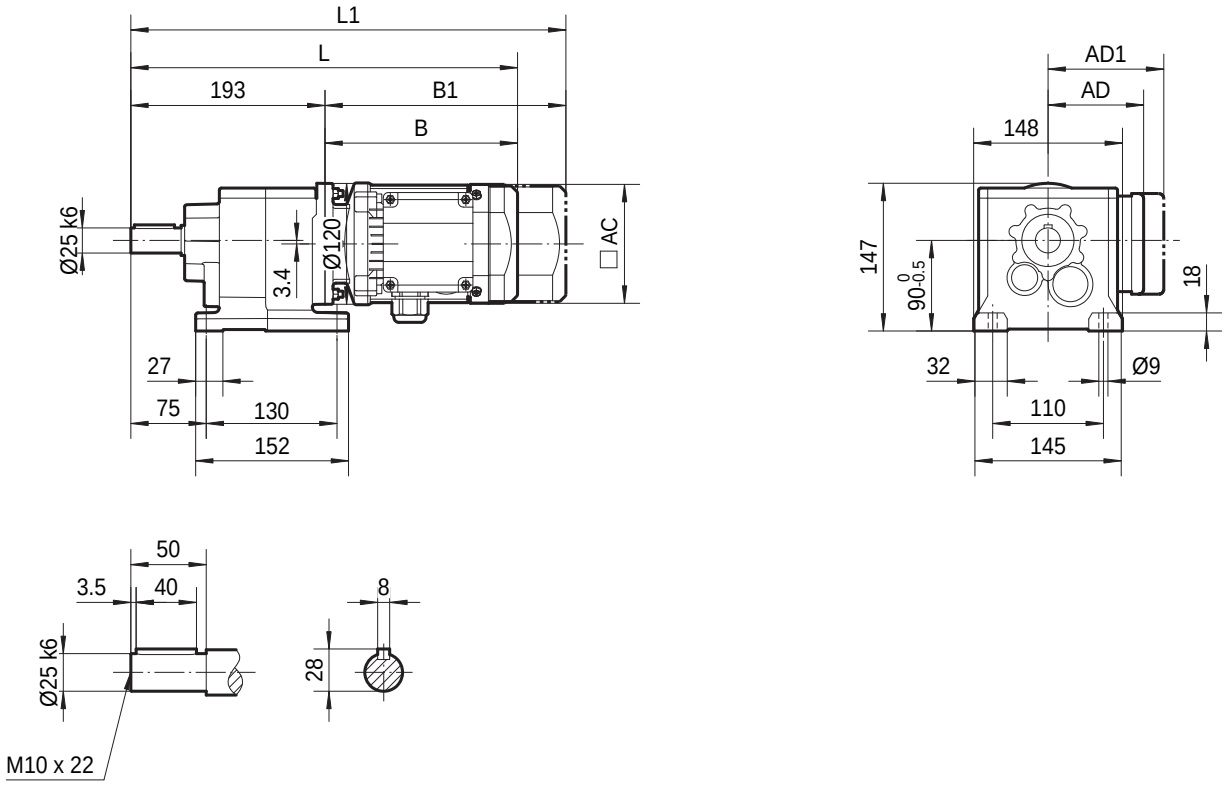






	MY63..	MY71D	MY80..								
AC	118	134	142								
AD	110	122	129								
AD1	115	127	134								
B	149	164	205								
B1	197	214	259								
L	364	379	420								
L1	412	429	474								

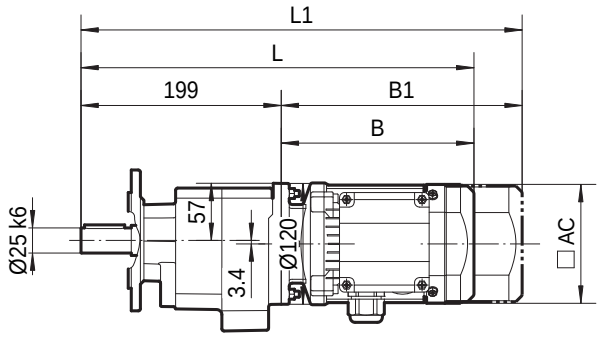
TR28..

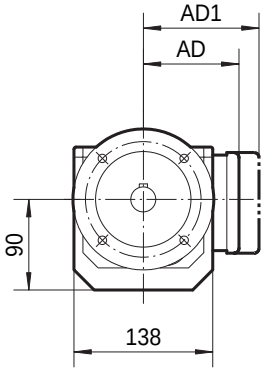


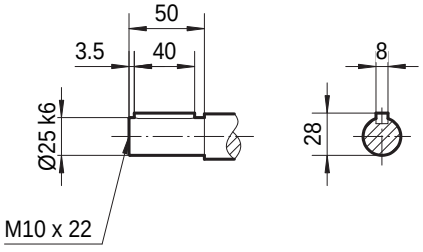
TR28F..

	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L					
AC	118	134	142	158	182	182					
AD	110	122	129	137	165	165					
AD1	115	127	134	142	165	165					
B	192	206	257	296	318	348					
B1	240	256	311	366	388	418					
L	385	399	450	489	511	541					
L1	433	449	504	559	581	611					

TRF28..

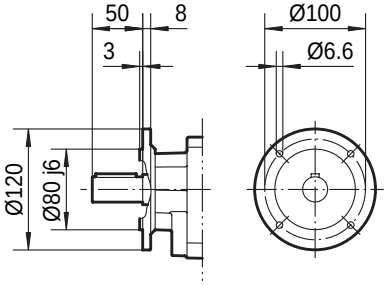






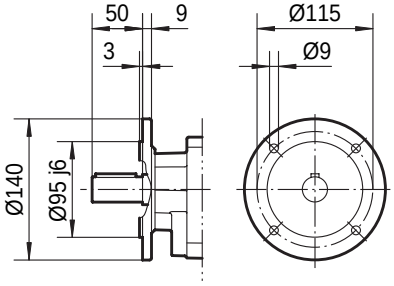
I

Ø120



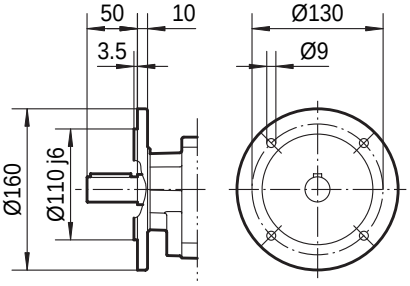
II

Ø140



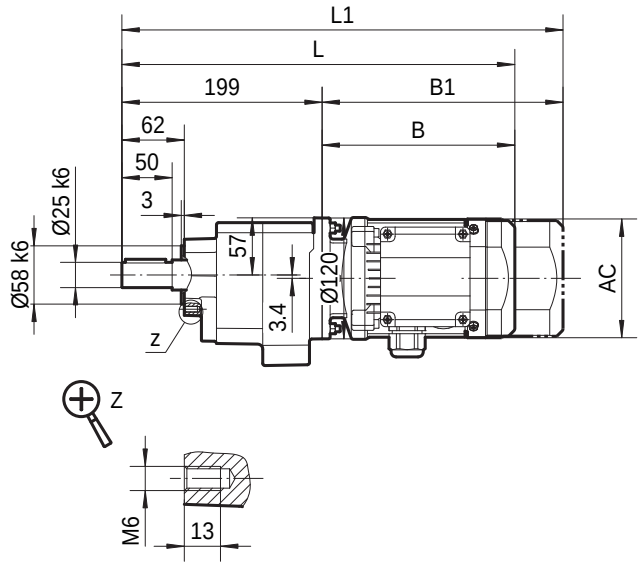
III

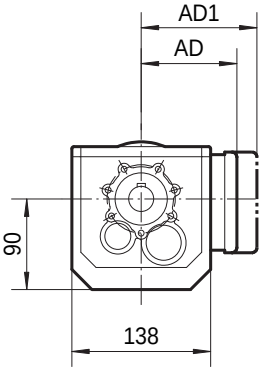
Ø160

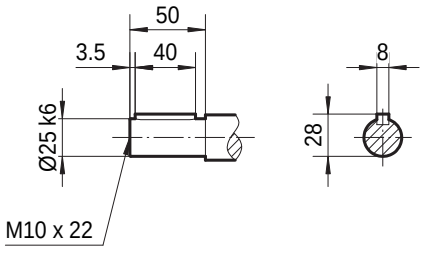


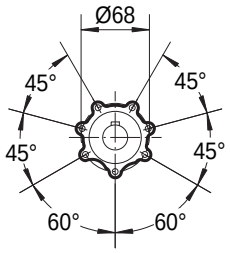
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L					
AC	118	134	142	158	182	182					
AD	110	122	129	137	165	165					
AD1	115	127	134	142	165	165					
B	192	206	257	296	318	348					
B1	240	256	311	366	388	418					
L	391	405	456	495	517	547					
L1	439	455	510	565	587	617					

TRZ28..



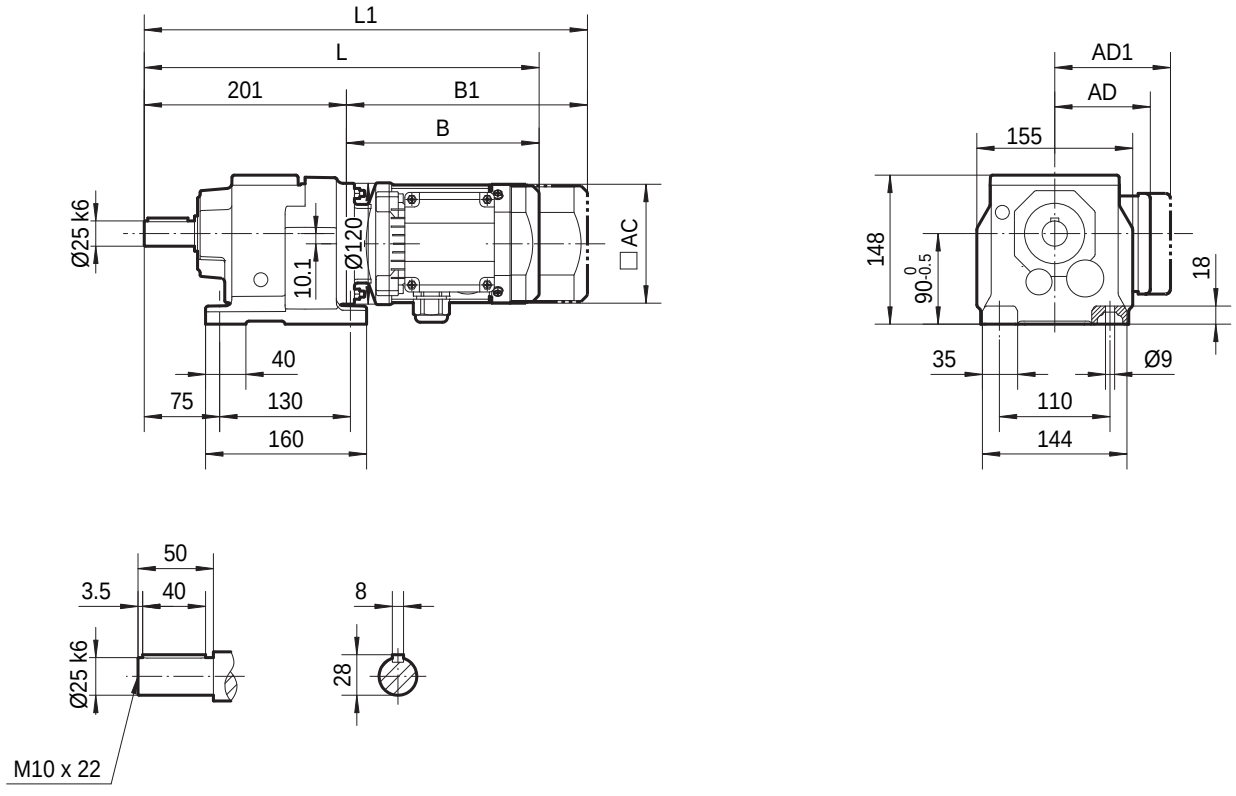






	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L					
AC	118	134	142	158	182	182					
AD	110	122	129	137	165	165					
AD1	115	127	134	142	165	165					
B	192	206	257	296	318	348					
B1	240	256	311	366	388	418					
L	391	405	456	495	517	547					
L1	439	455	510	565	587	617					

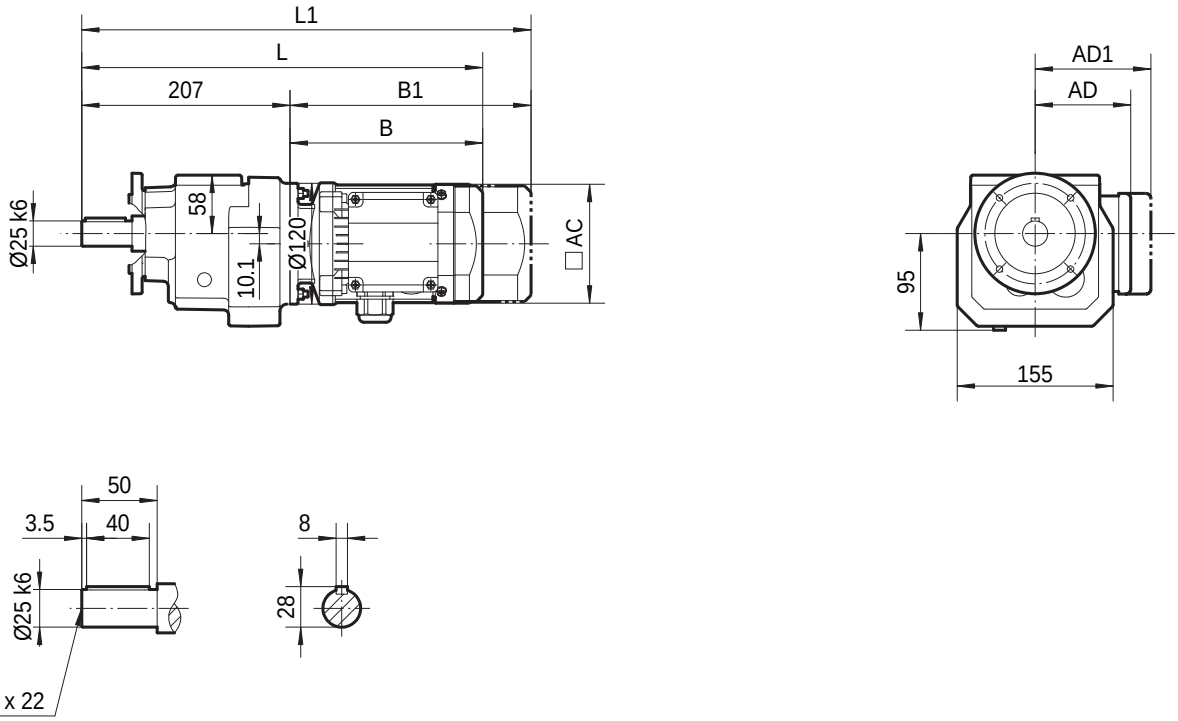
TR38..



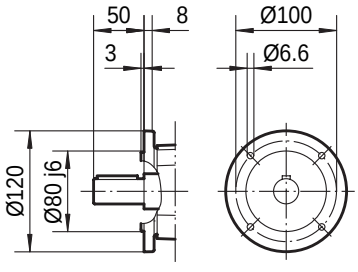
TR38F..

	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L					
AC	118	134	142	158	182	182					
AD	110	122	129	137	165	165					
AD1	115	127	134	142	165	165					
B	192	206	257	296	318	348					
B1	240	256	311	366	388	418					
L	393	407	458	497	519	549					
L1	441	457	512	567	589	619					

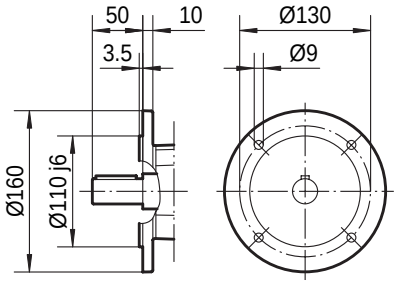
TRF38..



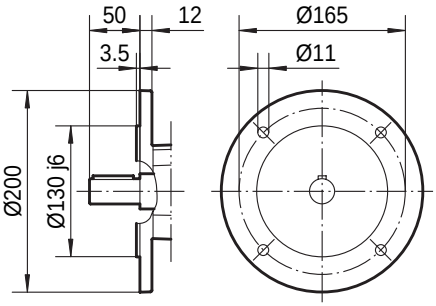
I Ø120



II Ø160

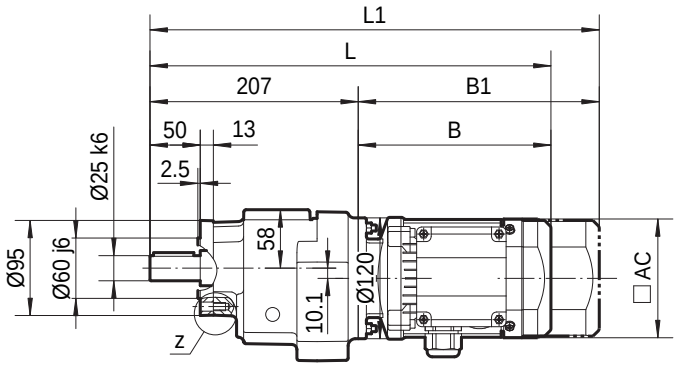


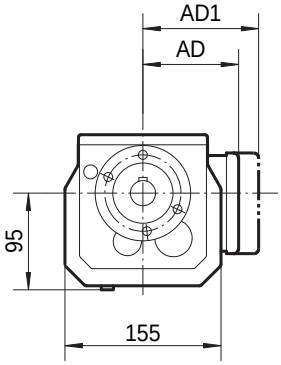
III Ø200

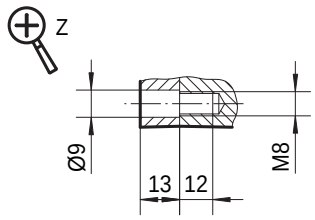


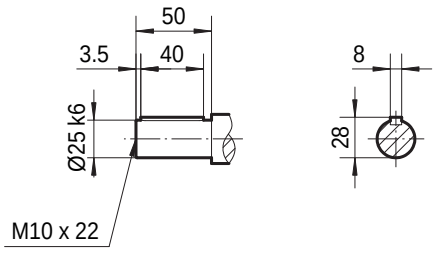
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L					
AC	118	134	142	158	182	182					
AD	110	122	129	137	165	165					
AD1	115	127	134	142	165	165					
B	192	206	257	296	318	348					
B1	240	256	311	366	388	418					
L	399	413	464	503	525	555					
L1	447	463	518	573	595	625					

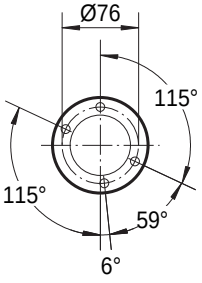
TRZ38..





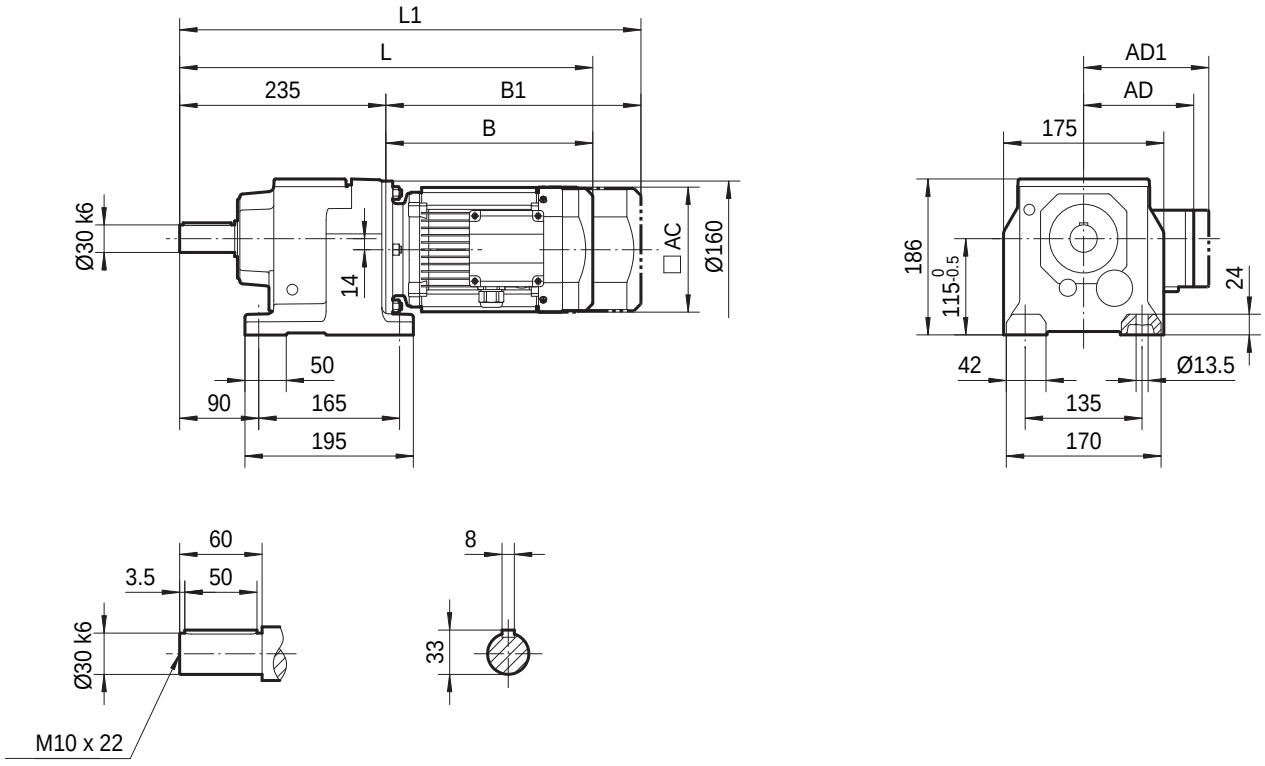






	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L					
AC	118	134	142	158	182	182					
AD	110	122	129	137	165	165					
AD1	115	127	134	142	165	165					
B	192	206	257	296	318	348					
B1	240	256	311	366	388	418					
L	399	413	464	503	525	555					
L1	447	463	518	573	595	625					

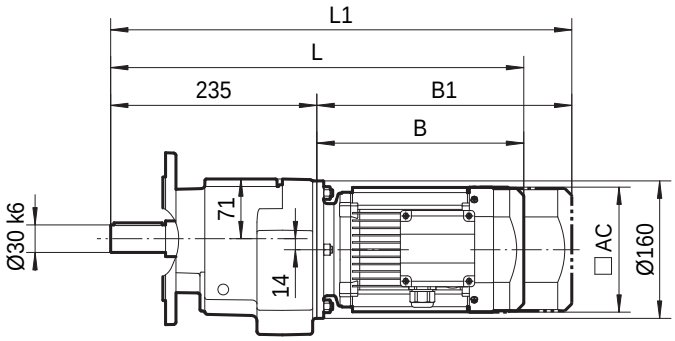
TR48..

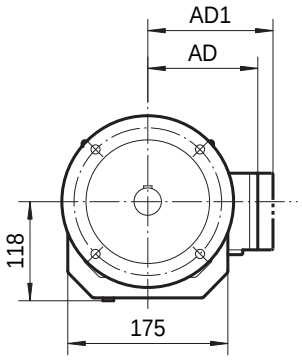


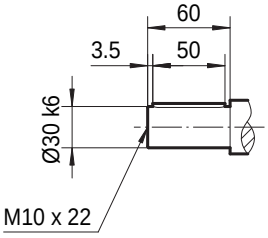
TR48F..

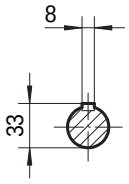
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S			
AC	118	134	142	158	182	182	206	206			
AD	110	122	129	137	165	165	178	178			
AD1	115	127	134	142	165	165	178	178			
B	185	199	250	290	309	339	354	402			
B1	233	249	304	360	379	409	434	482			
L	420	434	485	525	544	574	589	637			
L1	468	484	539	595	614	644	669	717			

TRF48..

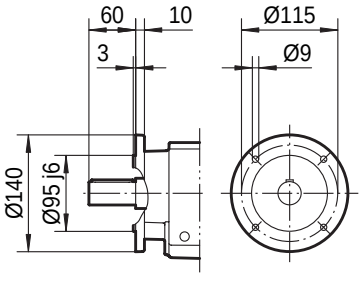




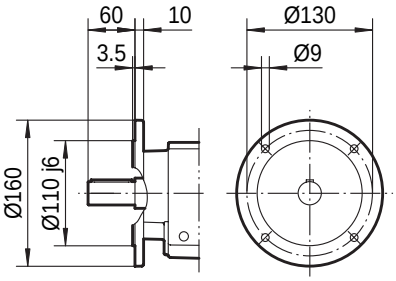




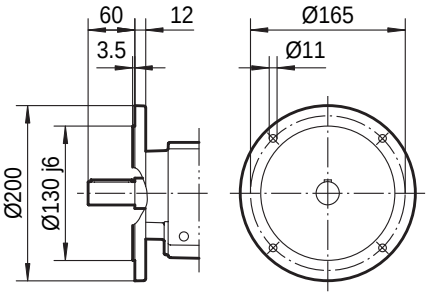
I Ø140



II Ø160

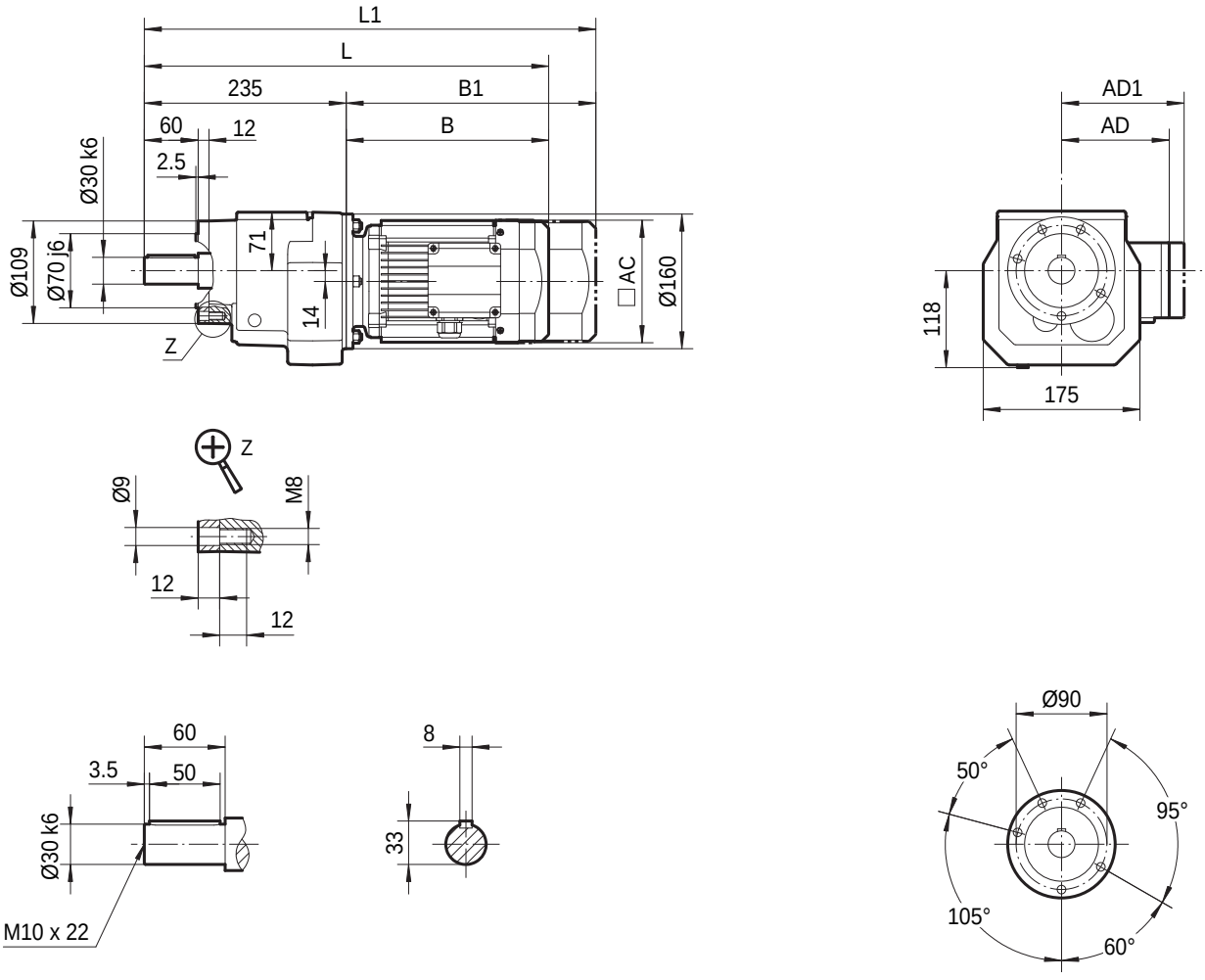


III Ø200



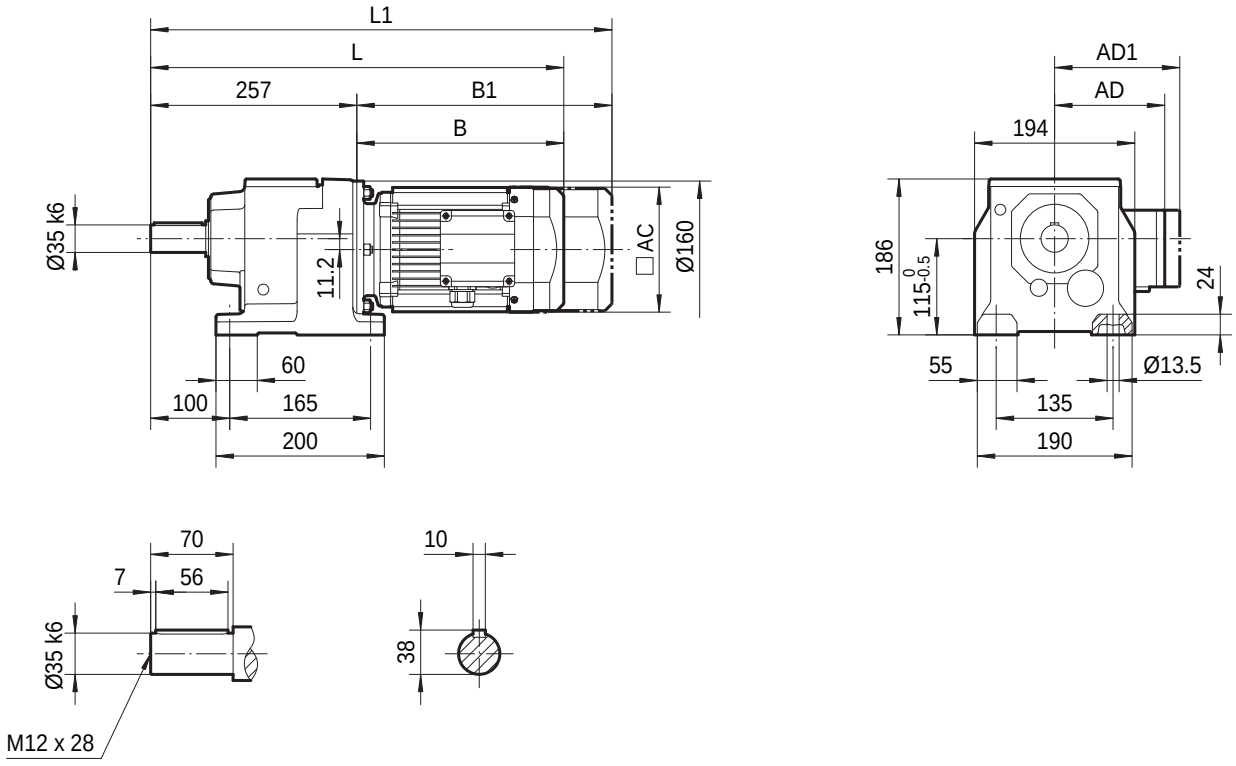
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S			
AC	118	134	142	158	182	182	206	206			
AD	110	122	129	137	165	165	178	178			
AD1	115	127	134	142	165	165	178	178			
B	185	199	250	290	309	339	354	402			
B1	233	249	304	360	379	409	434	482			
L	420	434	485	525	544	574	589	637			
L1	468	484	539	595	614	644	669	717			

TRZ48..



	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S			
AC	118	134	142	158	182	182	206	206			
AD	110	122	129	137	165	165	178	178			
AD1	115	127	134	142	165	165	178	178			
B	185	199	250	290	309	339	354	402			
B1	233	249	304	360	379	409	434	482			
L	420	434	485	525	544	574	589	637			
L1	468	484	539	595	614	644	669	717			

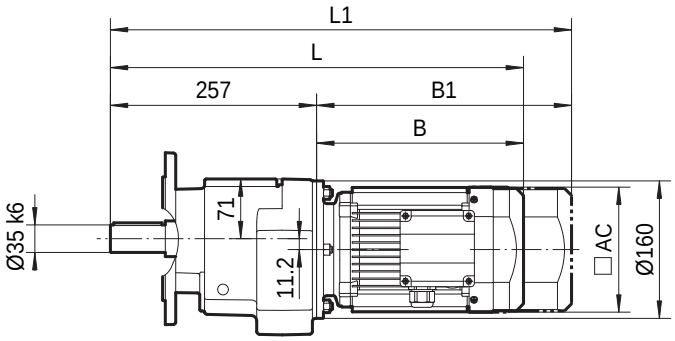
TR58..

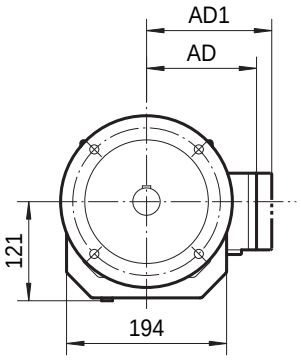


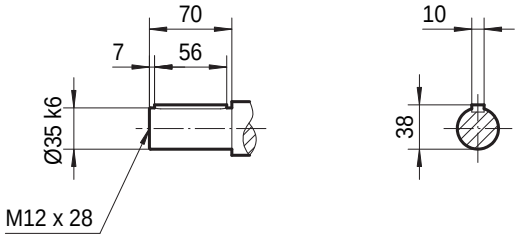
TR58F..

	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	442	456	507	547	566	596	611	659	681		
L1	490	506	561	617	636	666	691	739	791		

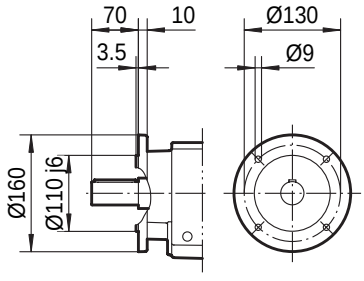
TRF58..



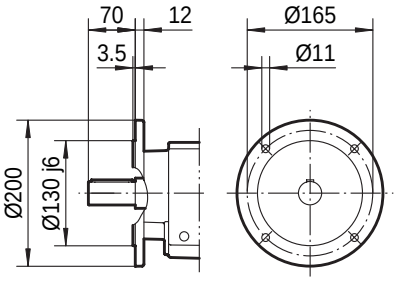




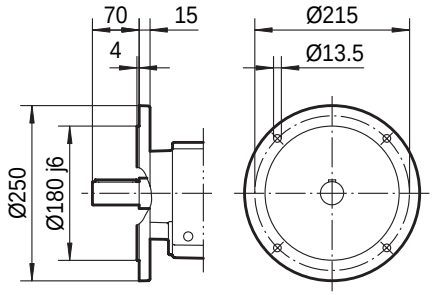
I Ø160



II Ø200

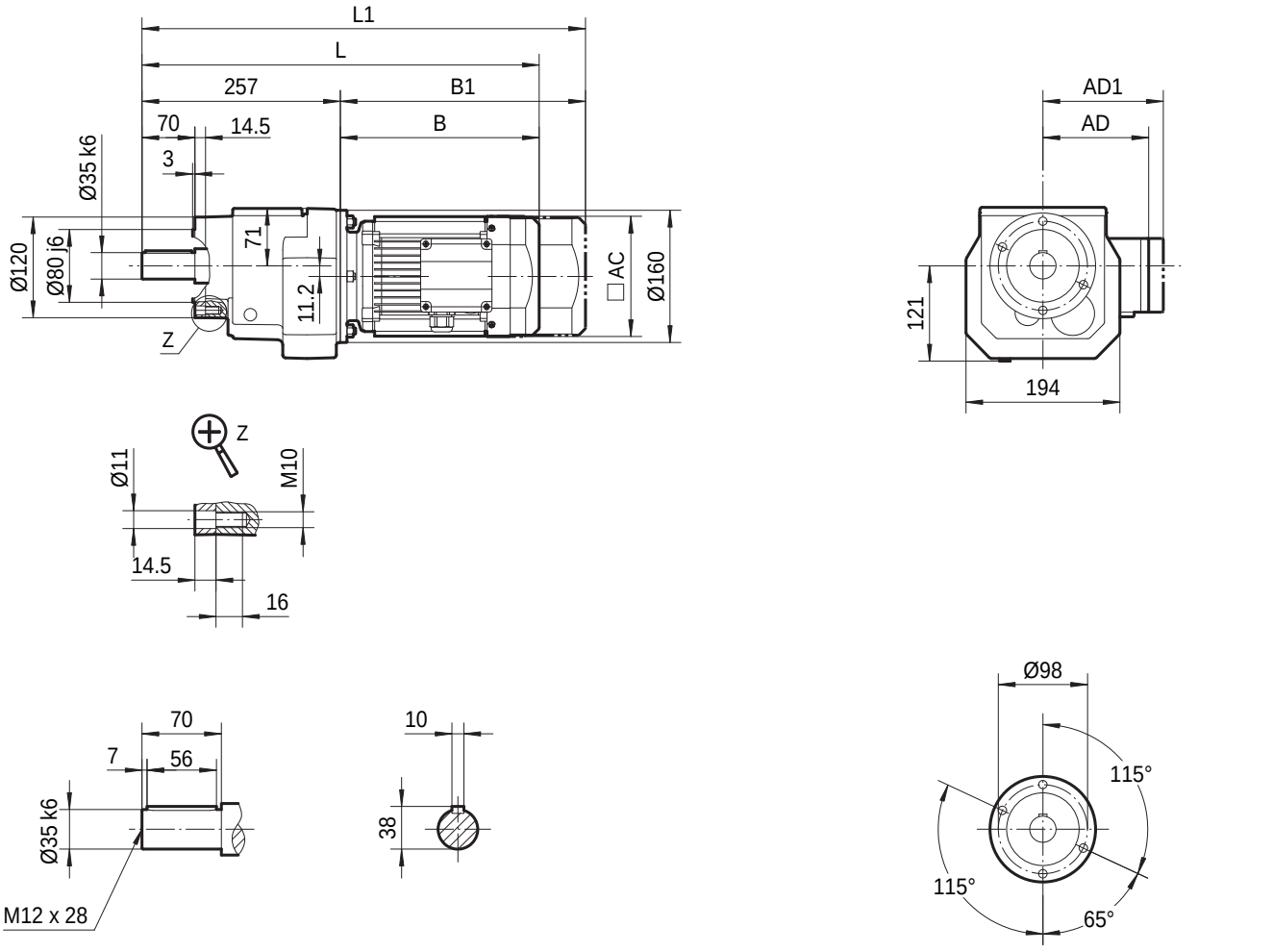


III Ø250



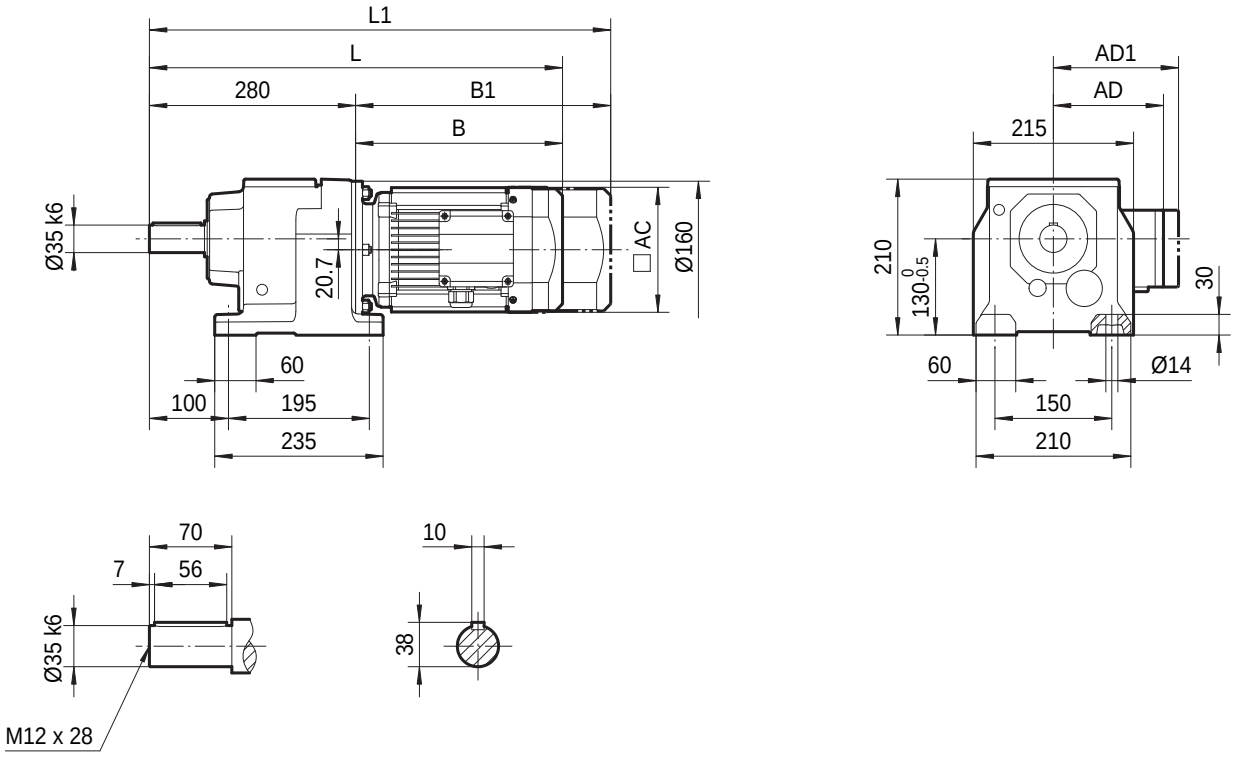
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	442	456	507	547	566	596	611	659	681		
L1	490	506	561	617	636	666	691	739	791		

TRZ58..



	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	442	456	507	547	566	596	611	659	681		
L1	490	506	561	617	636	666	691	739	791		

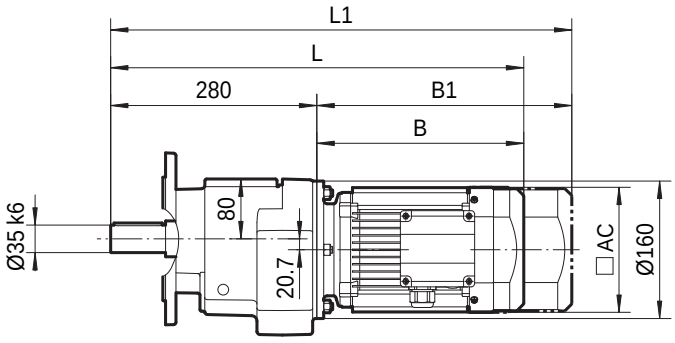
TR68..

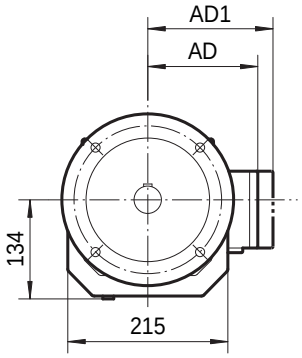


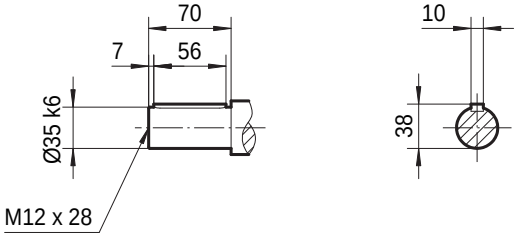
TR68F..

	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	465	479	530	570	589	619	634	682	704		
L1	513	529	584	640	659	689	714	762	814		

TRF68..

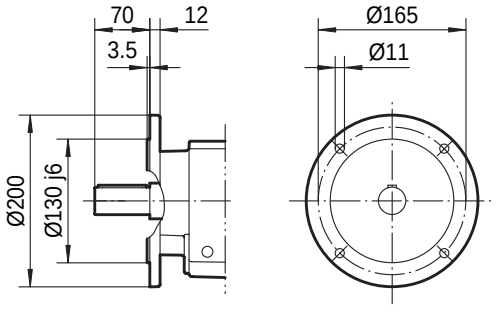






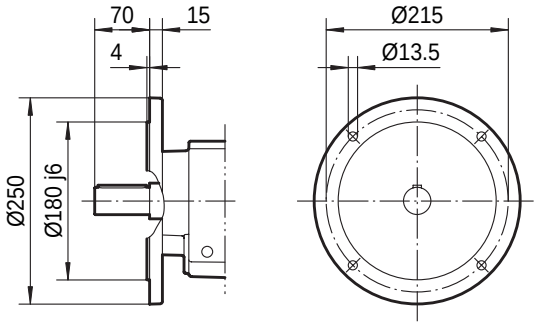
I

Ø200



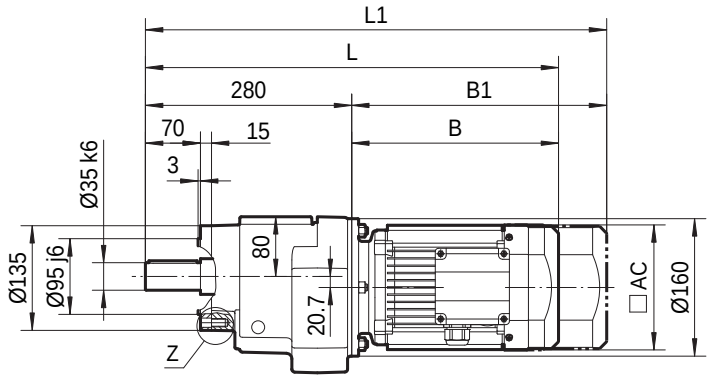
II

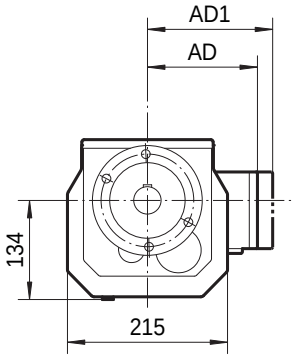
Ø250

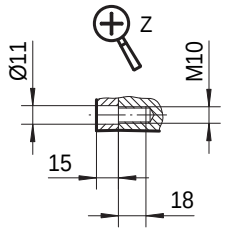


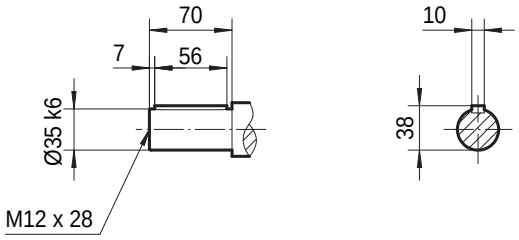
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	465	479	530	570	589	619	634	682	704		
L1	513	529	584	640	659	689	714	762	814		

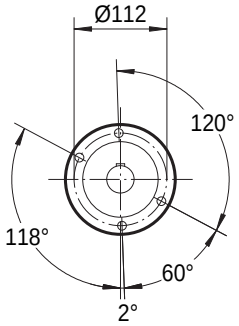
TRZ68..





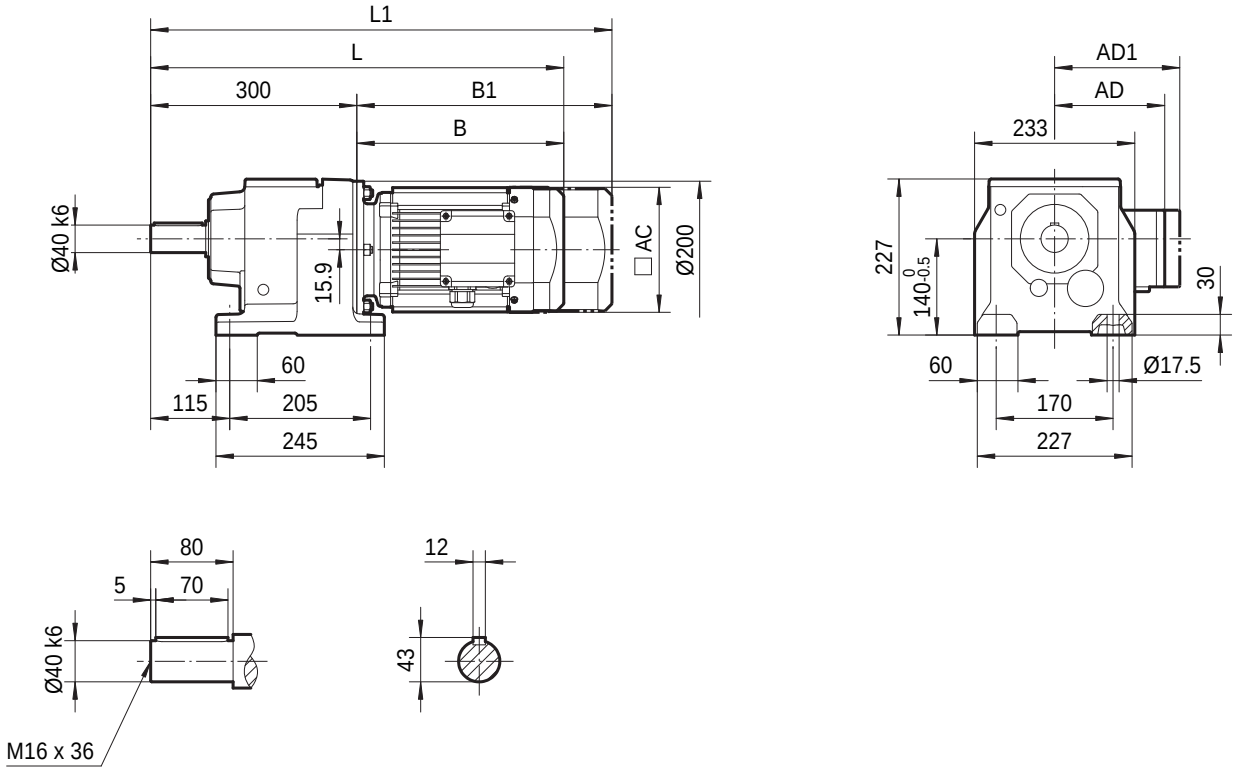




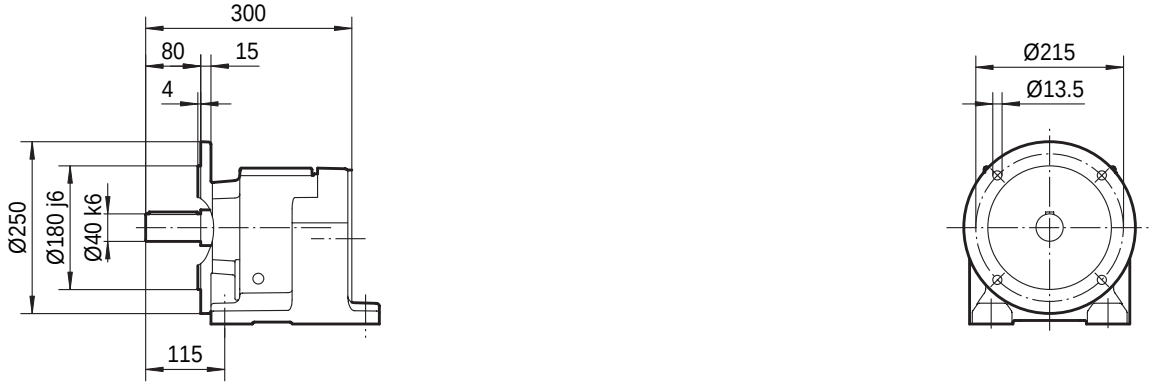


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M		
AC	118	134	142	158	182	182	206	206	252		
AD	110	122	129	137	165	165	178	178	227		
AD1	115	127	134	142	165	165	178	178	227		
B	185	199	250	290	309	339	354	402	424		
B1	233	249	304	360	379	409	434	482	534		
L	465	479	530	570	589	619	634	682	704		
L1	513	529	584	640	659	689	714	762	814		

TR78..

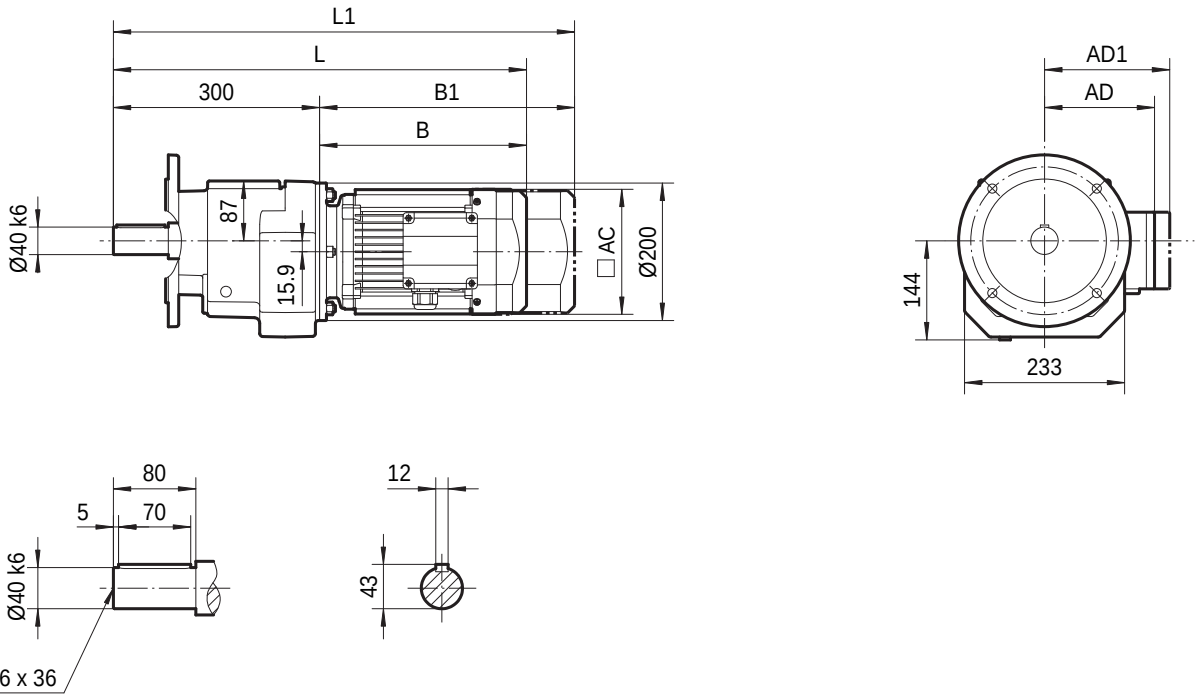


TR78F..



	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M
AC	118	134	142	158	182	182	206	206	252	252	252
AD	110	122	129	137	165	165	178	178	227	227	227
AD1	115	127	134	142	165	165	178	178	227	227	227
B	179	193	244	282	301	331	345	390	412	472	472
B1	227	243	298	352	371	401	425	470	522	582	582
L	479	493	544	582	601	631	645	690	712	772	772
L1	527	543	598	652	671	701	725	770	822	882	882

TRF78..



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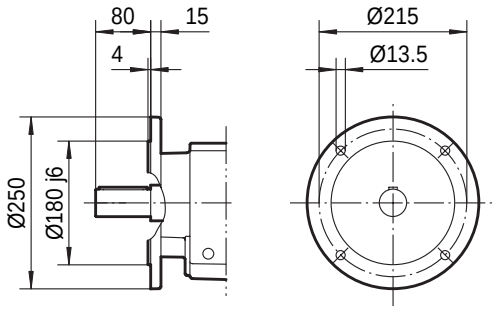

II

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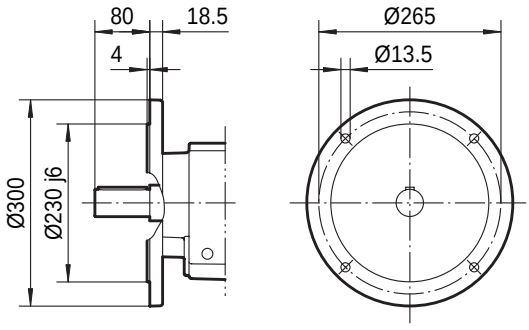
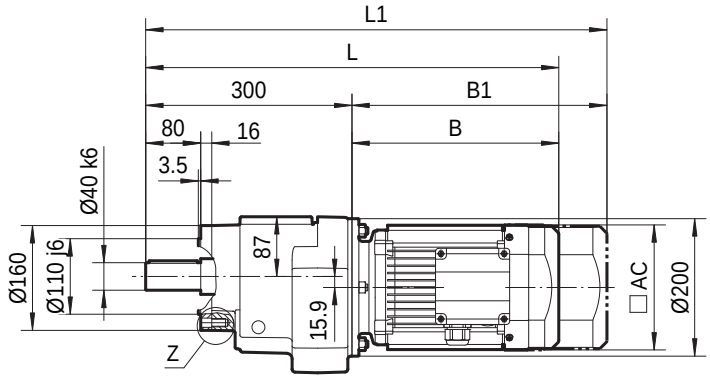
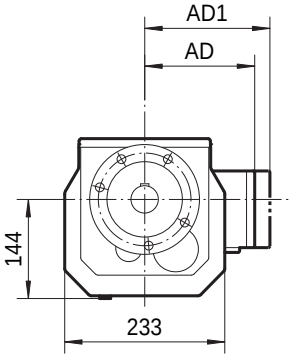
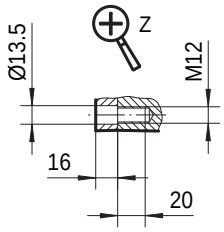


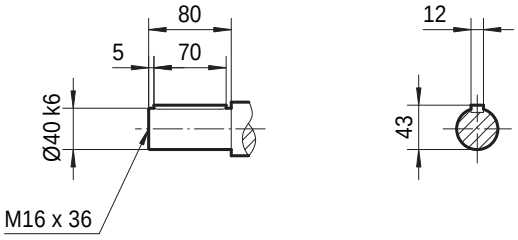
	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M
AC	118	134	142	158	182	182	206	206	252	252	252
AD	110	122	129	137	165	165	178	178	227	227	227
AD1	115	127	134	142	165	165	178	178	227	227	227
B	179	193	244	282	301	331	345	390	412	472	472
B1	227	243	298	352	371	401	425	470	522	582	582
L	479	493	544	582	601	631	645	690	712	772	772
L1	527	543	598	652	671	701	725	770	822	882	882

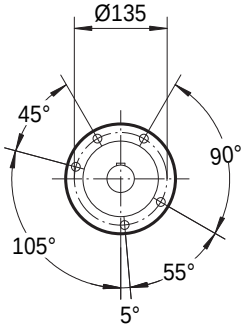
TRZ78..





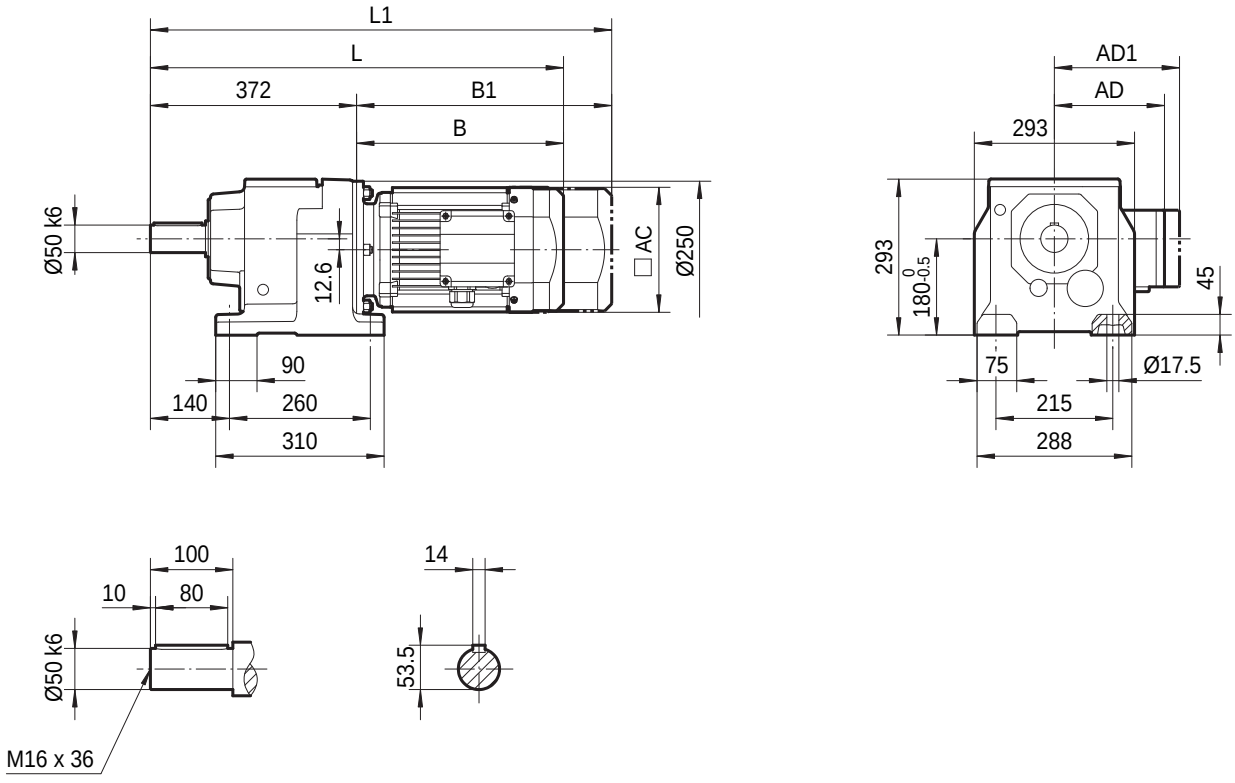




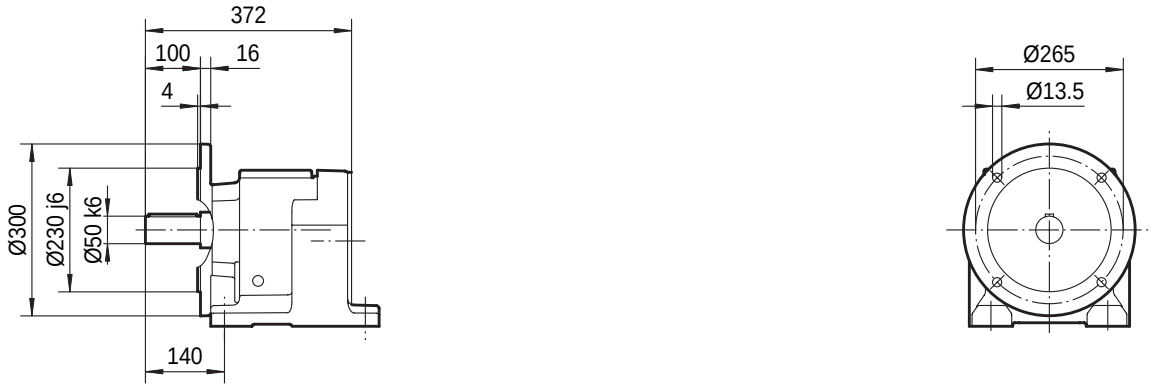


	MY63..	MY71D	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M
AC	118	134	142	158	182	182	206	206	252	252	252
AD	110	122	129	137	165	165	178	178	227	227	227
AD1	115	127	134	142	165	165	178	178	227	227	227
B	179	193	244	282	301	331	345	390	412	472	472
B1	227	243	298	352	371	401	425	470	522	582	582
L	479	493	544	582	601	631	645	690	712	772	772
L1	527	543	598	652	671	701	725	770	822	882	882

TR88..

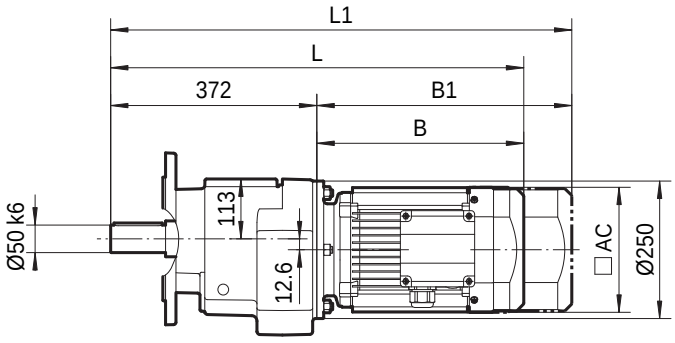


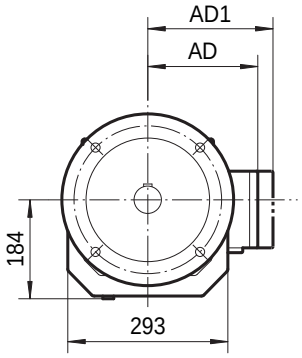
TR88F..

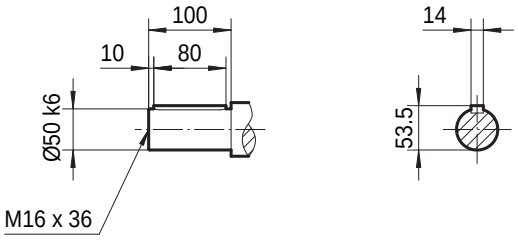


	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	142	158	182	182	206	206	252	252	252	310	310
AD	129	137	165	165	178	178	227	227	227	252	252
AD1	134	142	165	165	178	178	227	227	227	252	252
B	239	278	297	327	340	385	407	467	467	534	594
B1	293	348	367	397	420	465	517	577	577	664	724
L	611	650	669	699	712	757	779	839	839	906	966
L1	665	720	739	769	792	837	889	949	949	1036	1096

TRF88..







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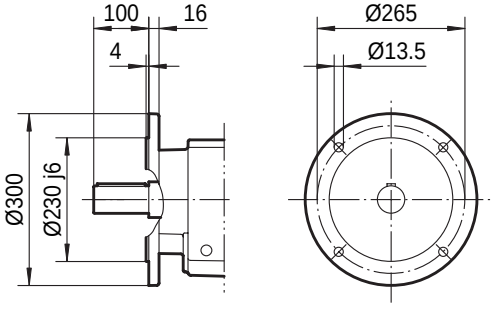
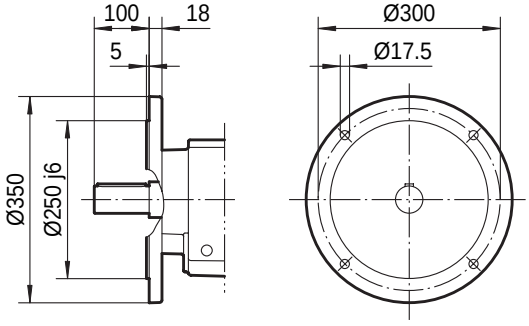
Ø300



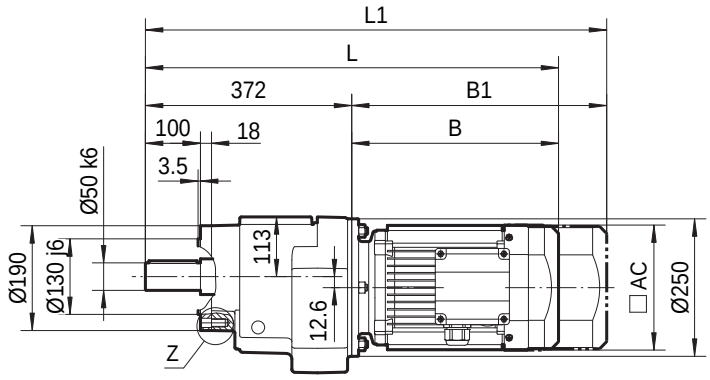
II

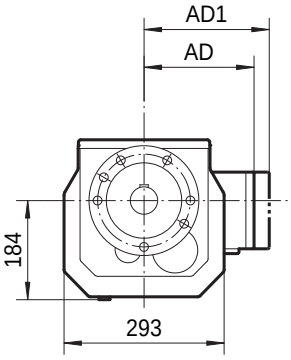
Ø350

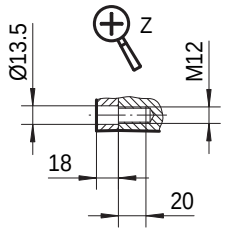


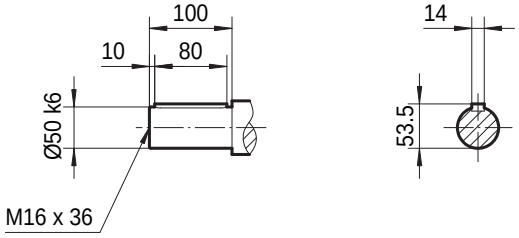
	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	142	158	182	182	206	206	252	252	252	310	310
AD	129	137	165	165	178	178	227	227	227	252	252
AD1	134	142	165	165	178	178	227	227	227	252	252
B	239	278	297	327	340	385	407	467	467	534	594
B1	293	348	367	397	420	465	517	577	577	664	724
L	611	650	669	699	712	757	779	839	839	906	966
L1	665	720	739	769	792	837	889	949	949	1036	1096

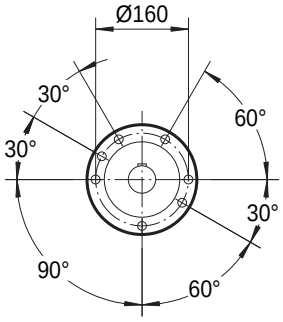
TRZ88..





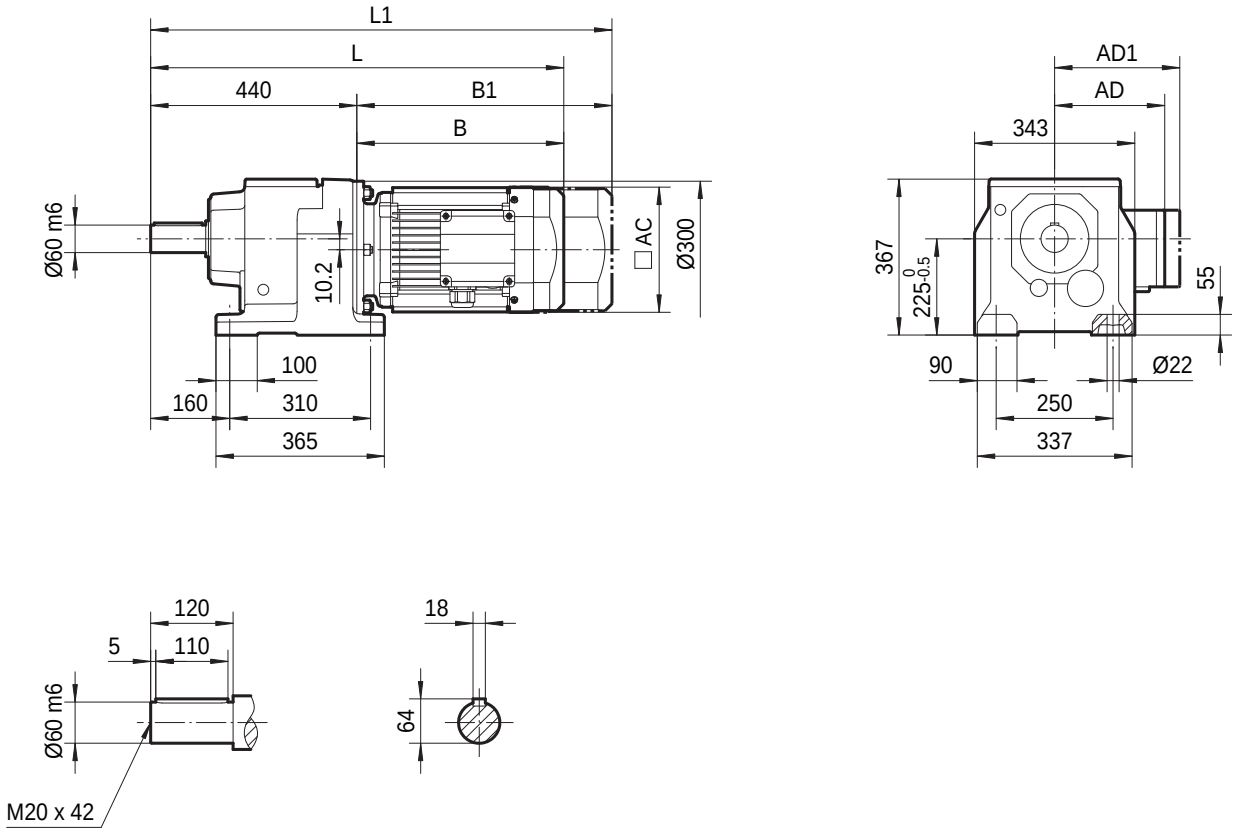






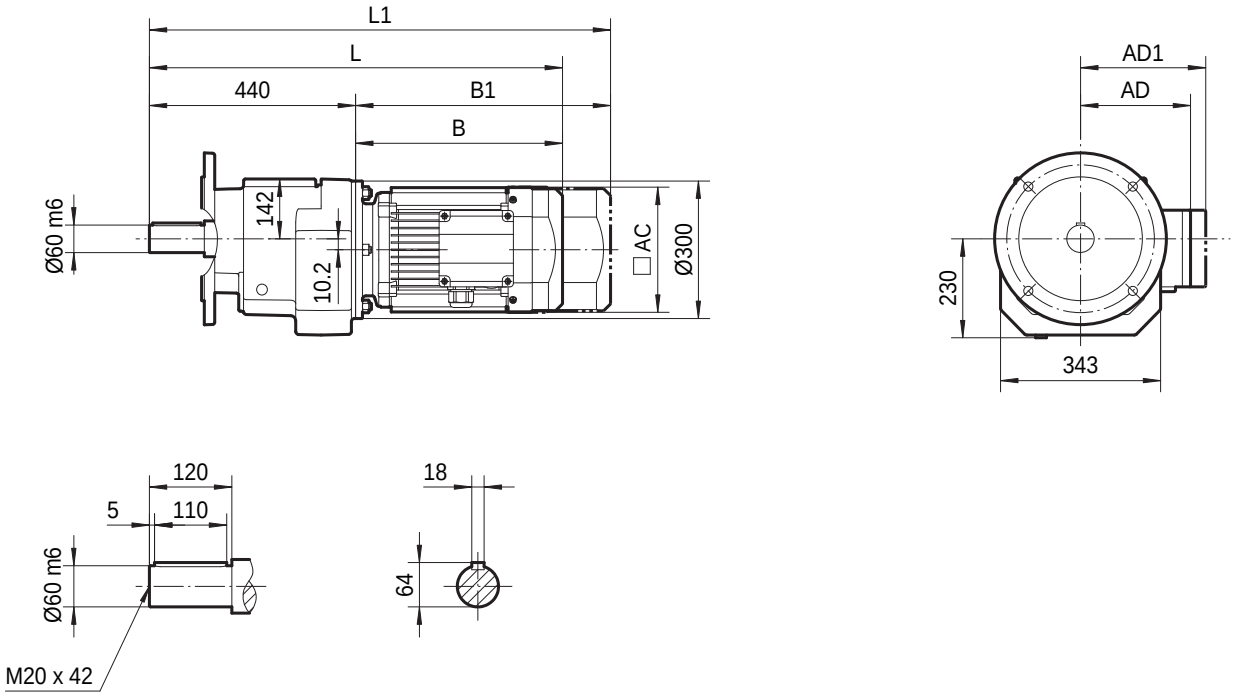
	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..
AC	142	158	182	182	206	206	252	252	252	310	310
AD	129	137	165	165	178	178	227	227	227	252	252
AD1	134	142	165	165	178	178	227	227	227	252	252
B	239	278	297	327	340	385	407	467	467	534	594
B1	293	348	367	397	420	465	517	577	577	664	724
L	611	650	669	699	712	757	779	839	839	906	966
L1	665	720	739	769	792	837	889	949	949	1036	1096

TR98..



	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..
AC	142	158	182	182	206	206	252	252	252	310	310	394
AD	129	137	165	165	178	178	227	227	227	252	252	285
AD1	134	142	165	165	178	178	227	227	227	252	252	285
B	232	272	291	321	335	380	402	462	462	529	589	629
B1	286	342	361	391	415	460	512	572	572	659	719	785
L	672	712	731	761	775	820	842	902	902	969	1029	1069
L1	726	782	801	831	855	900	952	1012	1012	1099	1159	1225

TRF98..



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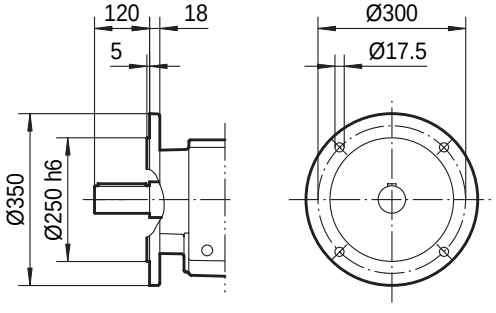

II

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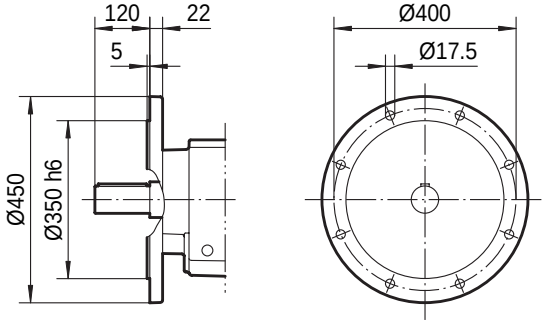
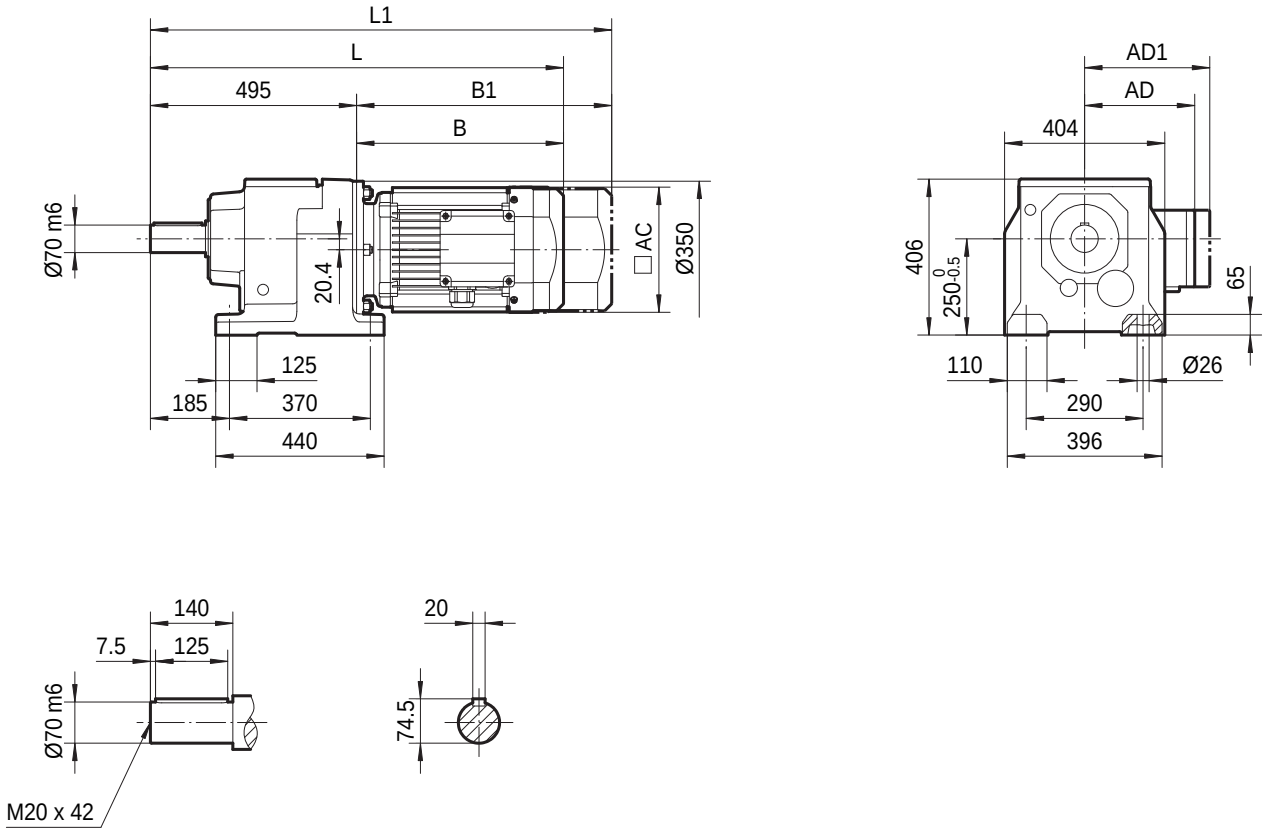


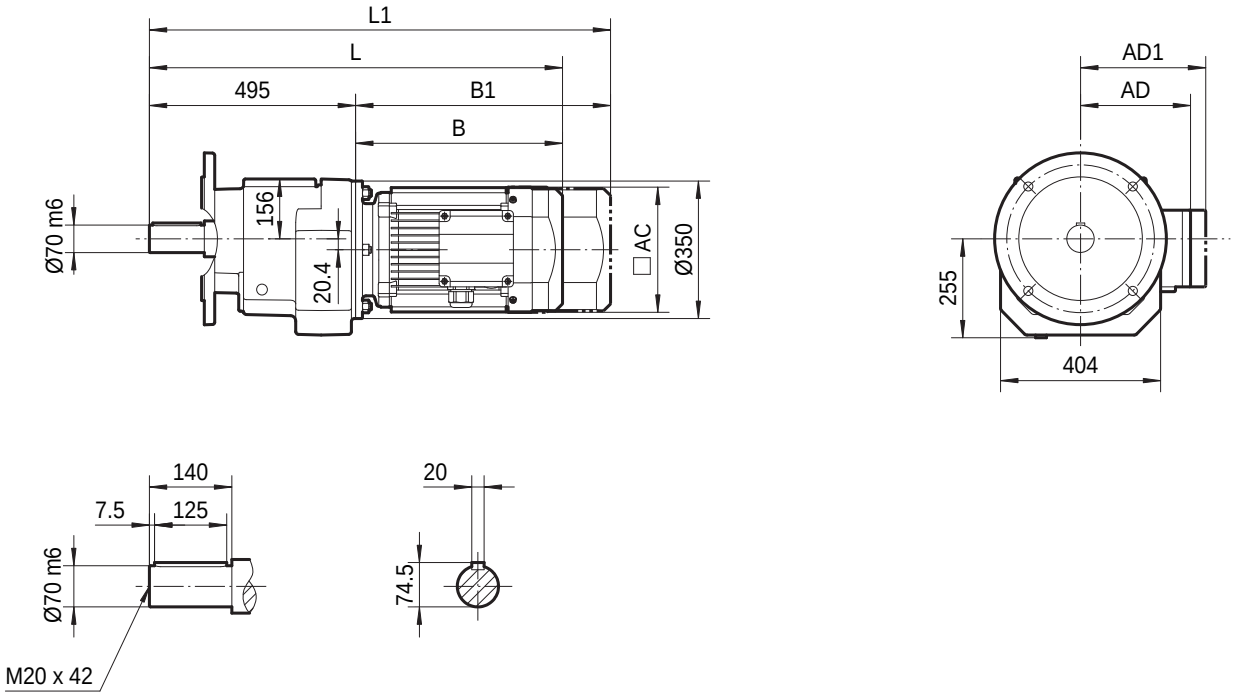
	MY80..	MY90..	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..
AC	142	158	182	182	206	206	252	252	252	310	310	394
AD	129	137	165	165	178	178	227	227	227	252	252	285
AD1	134	142	165	165	178	178	227	227	227	252	252	285
B	232	272	291	321	335	380	402	462	462	529	589	629
B1	286	342	361	391	415	460	512	572	572	659	719	785
L	672	712	731	761	775	820	842	902	902	969	1029	1069
L1	726	782	801	831	855	900	952	1012	1012	1099	1159	1225

TR108..



	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..
AC	182	182	206	206	252	252	252	310	310	394	394
AD	165	165	178	178	227	227	227	252	252	285	289
AD1	165	165	178	178	227	227	227	252	252	285	289
B	285	315	329	374	396	456	456	523	583	623	705
B1	355	385	409	454	506	566	566	653	713	779	861
L	780	810	824	869	891	951	951	1018	1078	1118	1200
L1	850	880	904	949	1001	1061	1061	1148	1208	1274	1356

TRF108..



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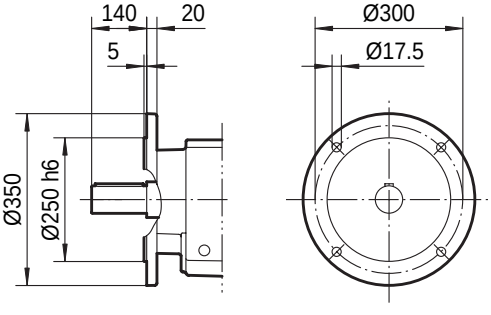

II

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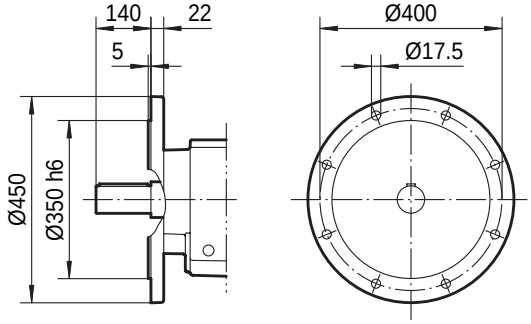
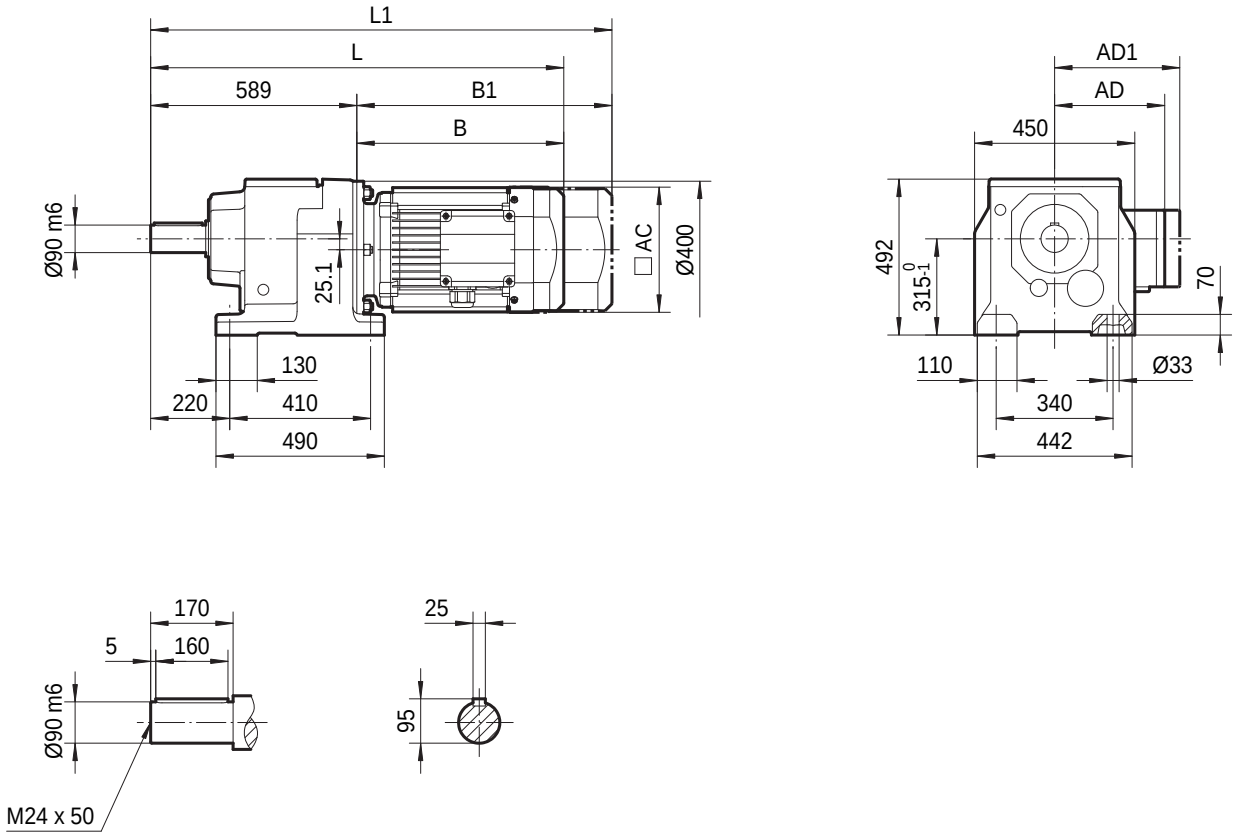


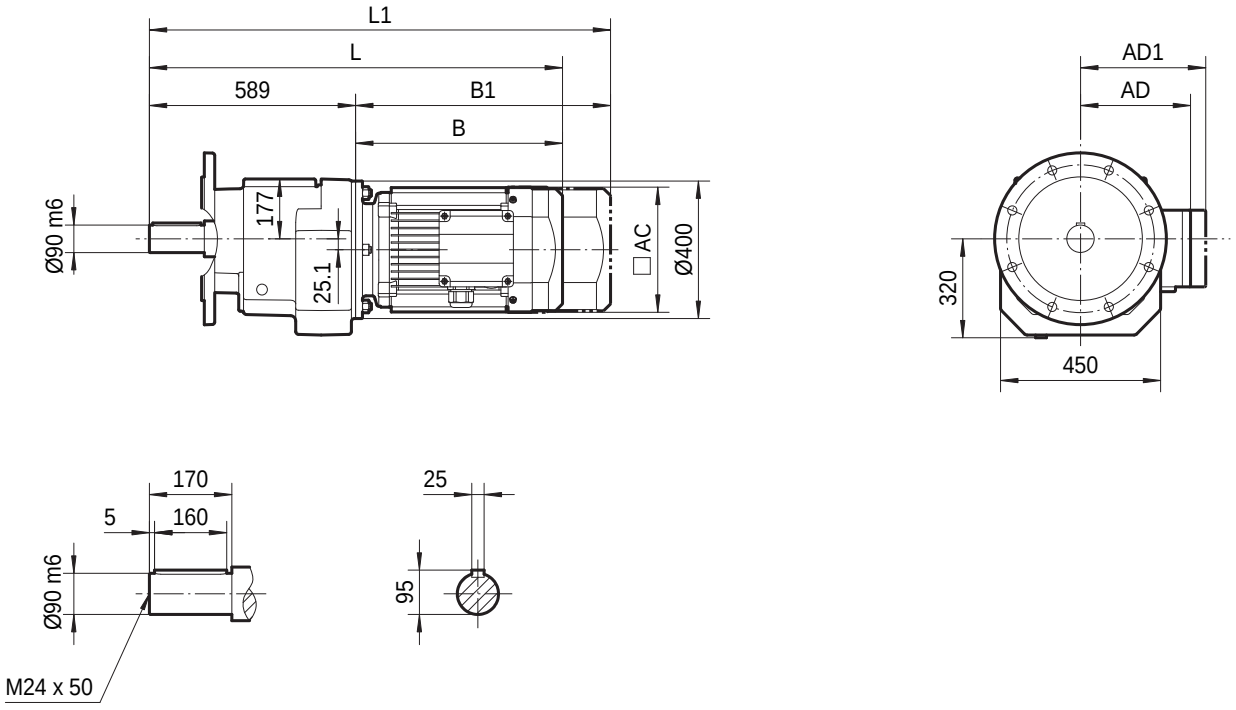
	MY100M	MY100L	MY112M	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..
AC	182	182	206	206	252	252	252	310	310	394	394
AD	165	165	178	178	227	227	227	252	252	285	289
AD1	165	165	178	178	227	227	227	252	252	285	289
B	285	315	329	374	396	456	456	523	583	623	705
B1	355	385	409	454	506	566	566	653	713	779	861
L	780	810	824	869	891	951	951	1018	1078	1118	1200
L1	850	880	904	949	1001	1061	1061	1148	1208	1274	1356

TR138..



	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M		
AC	206	252	252	252	310	310	394	394	510		
AD	178	227	227	227	252	252	285	289	397		
AD1	178	227	227	227	252	252	285	289	397		
B	367	389	449	449	516	576	616	698	789		
B1	447	499	559	559	646	706	772	854	974		
L	956	978	1038	1038	1105	1165	1205	1287	1378		
L1	1036	1088	1148	1148	1235	1295	1361	1443	1563		

TRF138..



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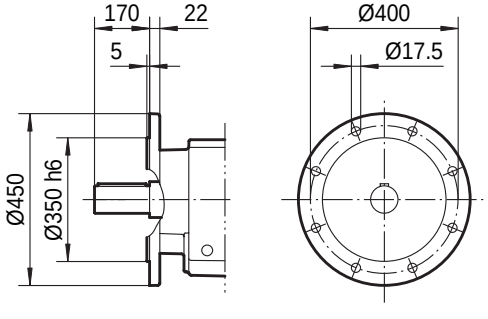
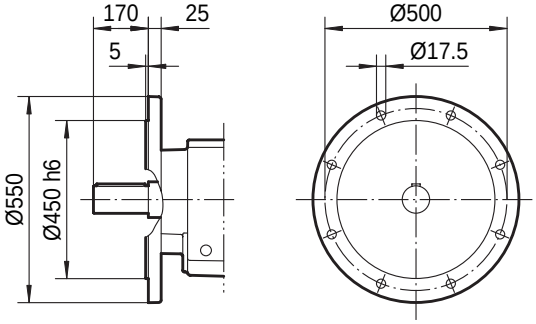


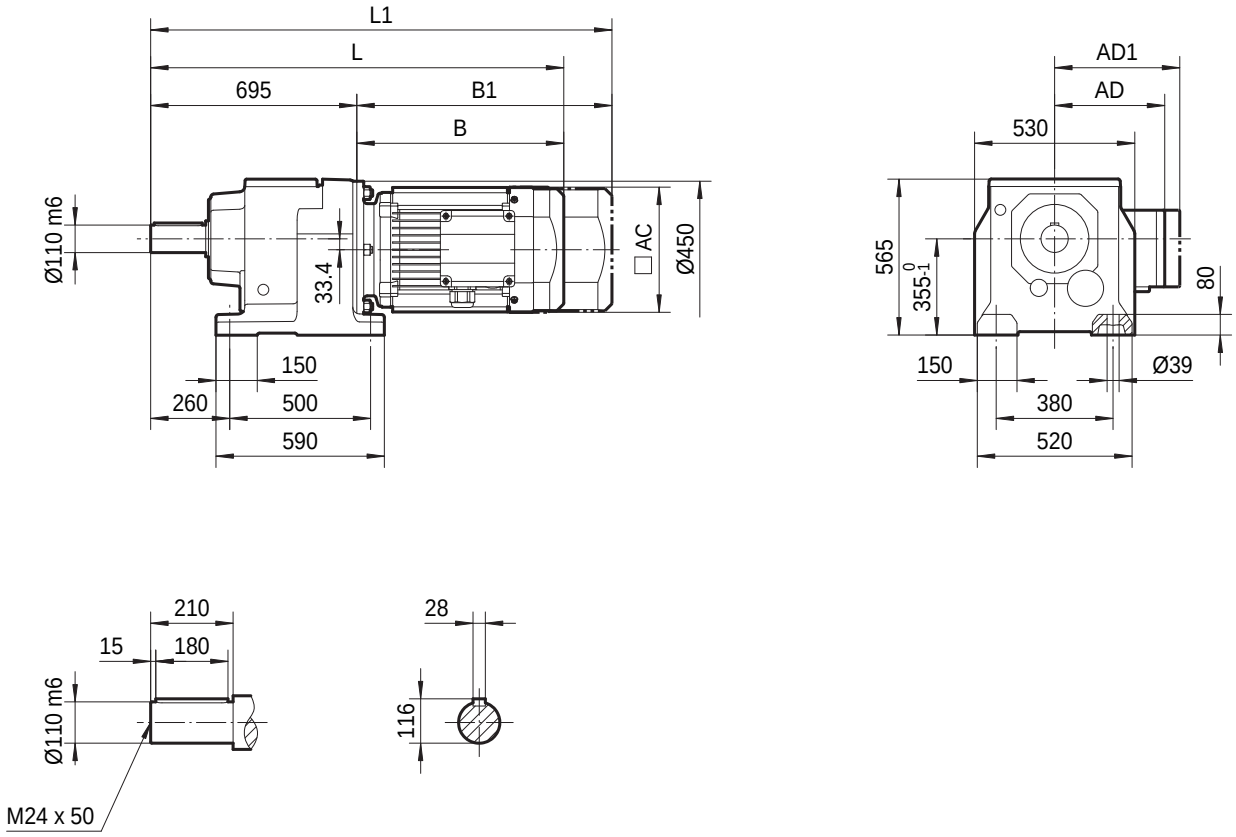
II

Ø550



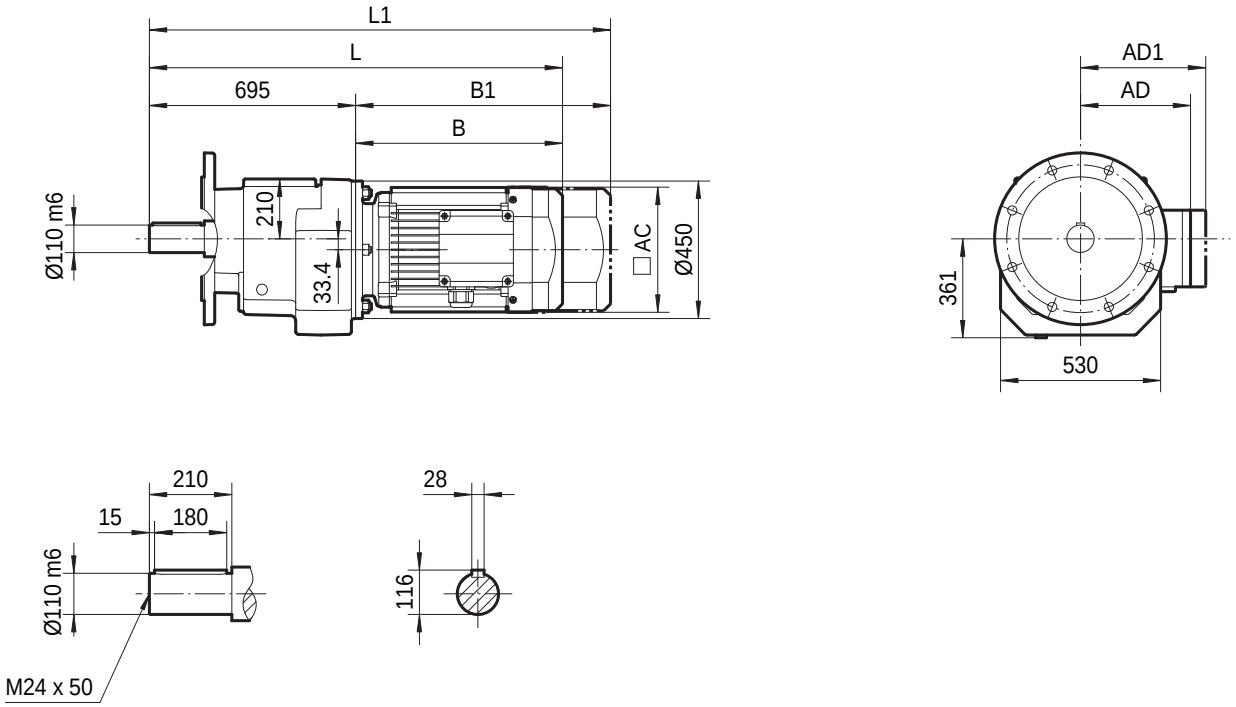
	MY132S	MY132M	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M		
AC	206	252	252	252	310	310	394	394	510		
AD	178	227	227	227	252	252	285	289	397		
AD1	178	227	227	227	252	252	285	289	397		
B	367	389	449	449	516	576	616	698	789		
B1	447	499	559	559	646	706	772	854	974		
L	956	978	1038	1038	1105	1165	1205	1287	1378		
L1	1036	1088	1148	1148	1235	1295	1361	1443	1563		

TR148..



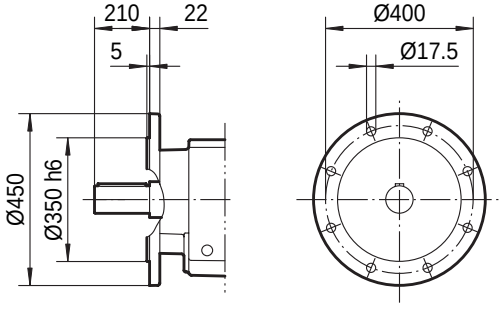
	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..			
AC	252	252	310	310	394	394	510	510			
AD	227	227	252	252	285	289	397	397			
AD1	227	227	252	252	285	289	397	397			
B	441	441	508	568	608	690	780	780			
B1	551	551	638	698	764	846	965	965			
L	1136	1136	1203	1263	1303	1385	1475	1475			
L1	1246	1246	1333	1393	1459	1541	1660	1660			

TRF148..



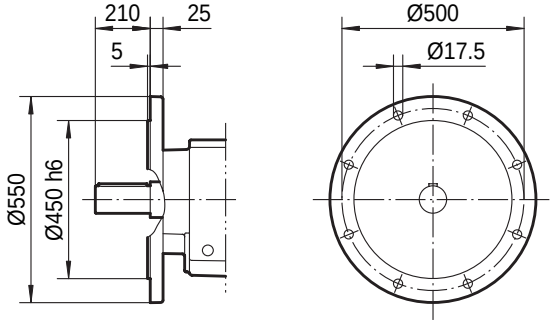
I

Ø450



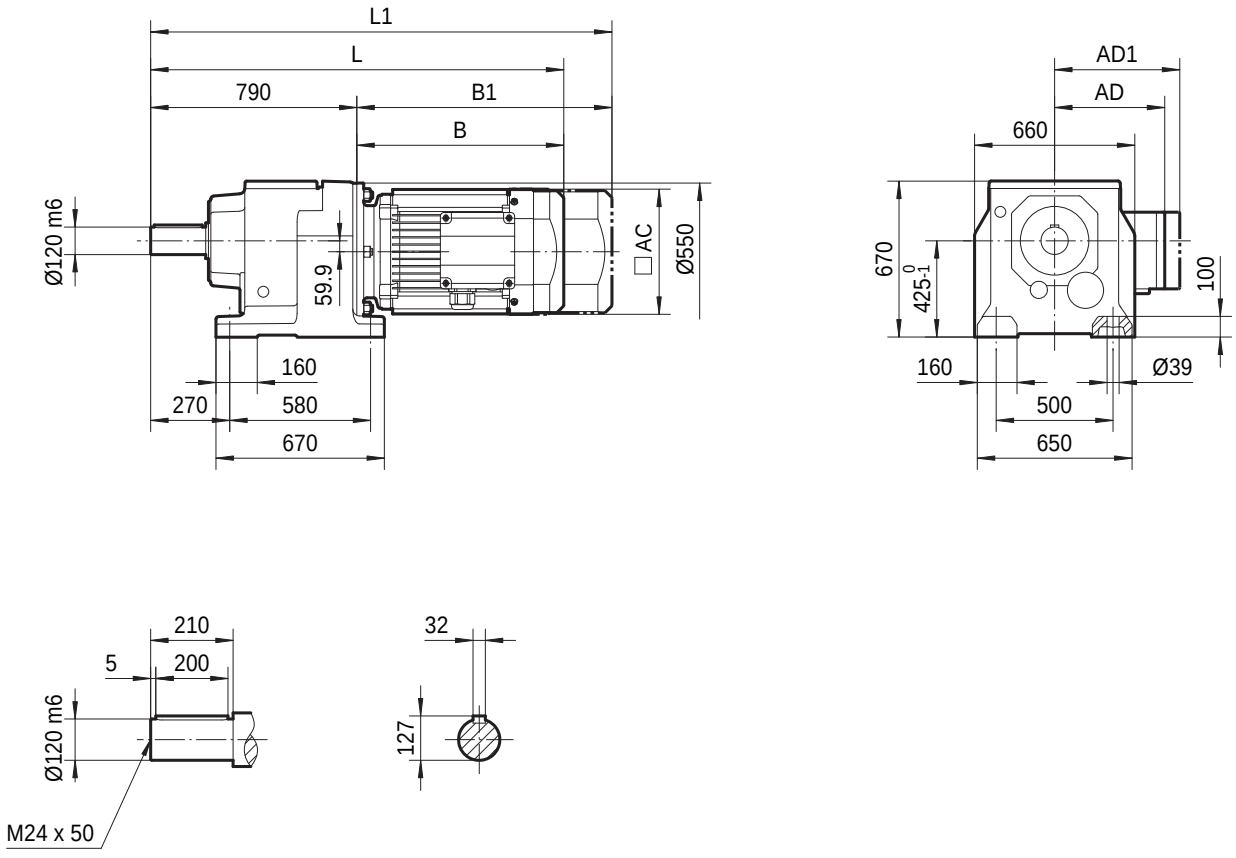
II

Ø550



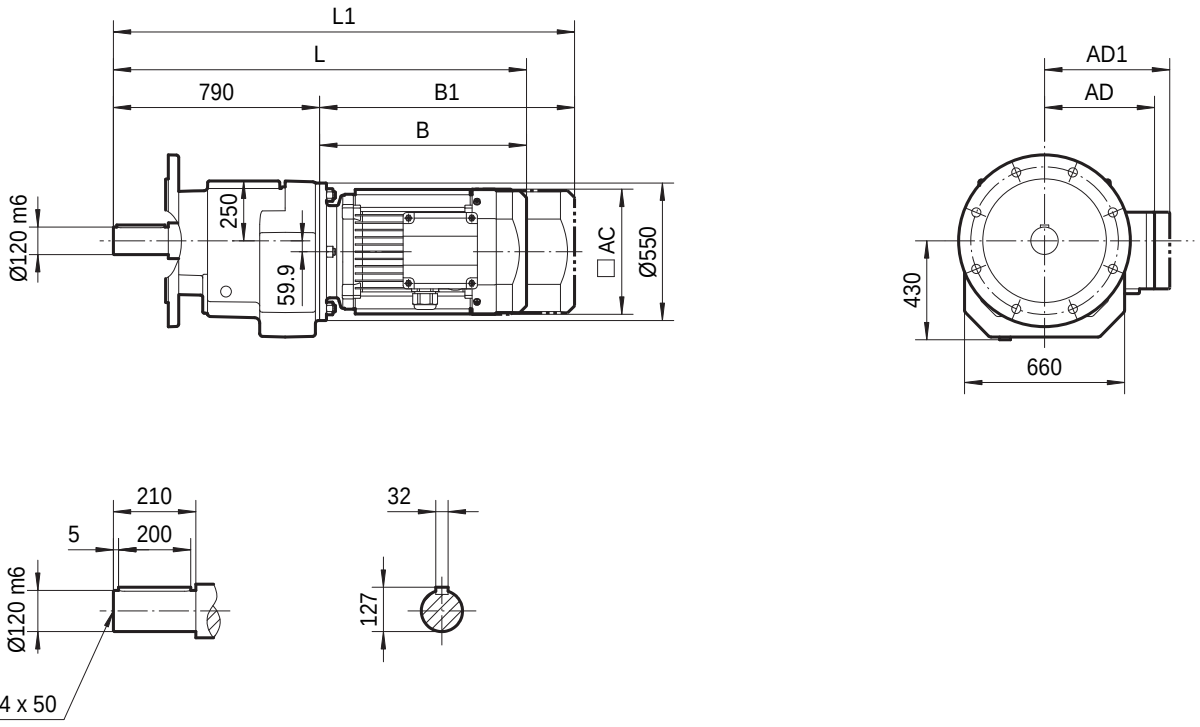
	MY132ML	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..			
AC	252	252	310	310	394	394	510	510			
AD	227	227	252	252	285	289	397	397			
AD1	227	227	252	252	285	289	397	397			
B	441	441	508	568	608	690	780	780			
B1	551	551	638	698	764	846	965	965			
L	1136	1136	1203	1263	1303	1385	1475	1475			
L1	1246	1246	1333	1393	1459	1541	1660	1660			

TR168..



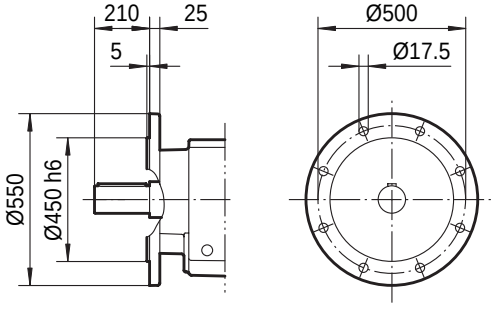
	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..	MY315S	MY315M		
AC	252	310	310	394	394	510	510	612	612		
AD	227	252	252	285	289	397	397	430	430		
AD1	227	252	252	285	289	397	397	430	430		
B	433	500	560	600	682	771	771	999	1050		
B1	543	630	690	756	838	956	956	1210	1261		
L	1223	1290	1350	1390	1472	1561	1561	1789	1840		
L1	1333	1420	1480	1546	1628	1746	1746	2000	2051		

TRF168..



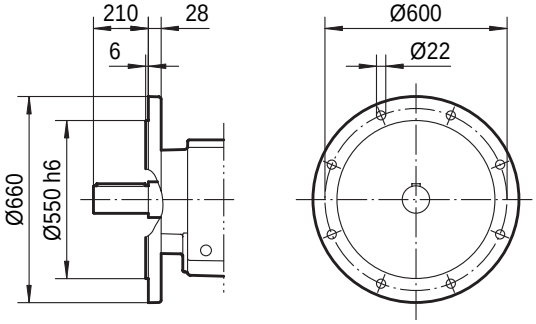
I

Ø550



II

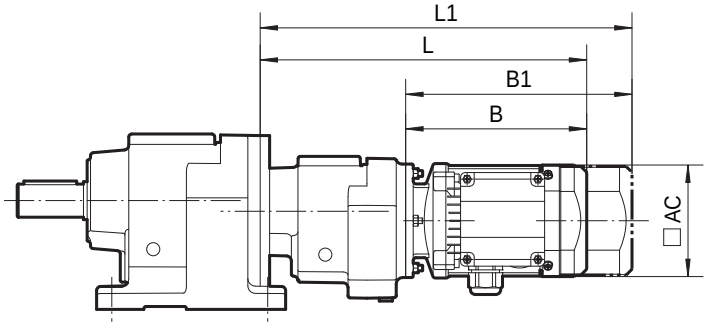
Ø660



	MY160M	MY160L	MY180..	MY200..	MY225..	MY250M	MY280..	MY315S	MY315M		
AC	252	310	310	394	394	510	510	612	612		
AD	227	252	252	285	289	397	397	430	430		
AD1	227	252	252	285	289	397	397	430	430		
B	433	500	560	600	682	771	771	999	1050		
B1	543	630	690	756	838	956	956	1210	1261		
L	1223	1290	1350	1390	1472	1561	1561	1789	1840		
L1	1333	1420	1480	1546	1628	1746	1746	2000	2051		

7.2 TR.. /TRF Outline Dimension

TR../TRF..



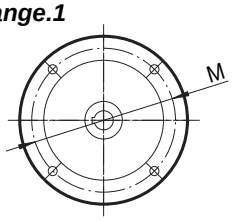
TR../TRF..	MY..	AC	L	L1	B	B1
TR..28/TRF18 TR..38/TRF18	MY63..	118	324	372	149	197
	MY71D	134	339	389	164	214
	MY80..	142	380	434	205	259
TR..48/TRF38	MY63..	118	357	405	192	240
TR..58/TRF38	MY71D	134	371	421	206	256
TR..68/TRF38	MY80..	142	422	476	257	311
TR..78/TRF38	MY63..	118	349	397	192	240
	MY71D	134	363	413	206	256
	MY80..	142	414	468	257	311
	MY90..	158	453	523	296	366
TR..88/TRF58	MY63..	118	401	449	185	233
	MY71D	134	415	465	199	249
	MY80..	142	466	520	250	304
	MY90..	158	506	576	290	360
TR..98/TRF58	MY63..	118	396	444	185	233
	MY71D	134	410	460	199	249
	MY80..	142	461	515	250	304
	MY90..	158	501	571	290	360
	MY100M	182	520	590	309	379
	MY100L	182	550	620	339	409
TR..108/TRF78	MY63..	118	426	476	179	227
	MY71D	134	440	490	193	243
	MY80..	142	491	545	244	298
	MY90..	158	529	599	282	352
	MY100M	182	548	618	301	371
	MY100L	182	578	648	331	401
	MY112M	206	592	672	345	425
	MY132S	206	637	717	390	470
	MY132M	252	659	769	412	522
	MY132ML	252	719	829	472	582
	MY160M	252	719	829	472	582
TR..138/TRF78	MY63..	118	419	467	179	227
	MY71D	134	433	483	193	243
	MY80..	142	484	538	244	298
	MY90..	158	522	592	282	352
	MY100M	182	541	611	301	371
	MY100L	182	571	641	331	401
	MY112M	206	585	665	345	425
	MY132S	206	630	710	390	470
	MY132M	252	652	762	412	522
	MY132ML	252	712	822	472	582
	MY160M	252	712	822	472	582

TR../TRF..	MY..	AC	L	L1	B	B1
TR..148/TRF78	MY63..	118	411	459	179	227
	MY71D	134	425	475	193	243
	MY80..	142	476	530	244	298
	MY90..	158	514	584	282	352
	MY100M	182	533	603	301	371
	MY100L	182	563	633	331	401
	MY112M	206	577	657	345	425
	MY132S	206	622	702	390	470
	MY132M	252	644	754	412	522
	MY132ML	252	704	814	472	582
	MY160M	252	704	814	472	582
TR..148/TRF88	MY90..	158	558	628	278	348
	MY100M	182	577	647	297	367
	MY100L	182	607	677	327	397
	MY112M	206	620	700	340	420
	MY132S	206	665	745	385	465
	MY132M	252	687	797	407	517
	MY132ML	252	747	857	467	577
	MY160M	252	747	857	467	577
	MY160L	310	814	944	534	664
	MY180..	310	874	1004	594	724
TR..168/TRF98	MY80..	142	557	611	232	286
	MY90..	158	597	667	272	342
	MY100M	182	616	686	291	361
	MY100L	182	646	716	321	391
	MY112M	206	660	740	335	415
	MY132S	206	705	785	380	460
	MY132M	252	727	837	402	512
	MY132ML	252	787	897	462	572
	MY160M	252	787	897	462	572
	MY160L	310	854	984	529	659
	MY180..	310	914	1044	589	719
TR..168/TRF108	MY100M	182	667	737	285	355
	MY100L	182	697	767	315	385
	MY112M	206	711	791	329	409
	MY132S	206	756	836	374	454
	MY132M	252	778	888	396	506
	MY132ML	252	838	948	456	566
	MY160M	252	838	948	456	566
	MY160L	310	905	1035	523	653
	MY180..	310	965	1095	583	713
	MY200..	394	1005	1161	623	779
	MY225..	394	1087	1243	705	861

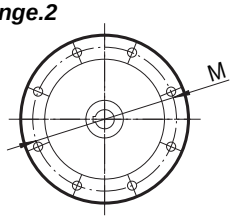
7.3 TR.. AM(IEC).. Outline Dimension

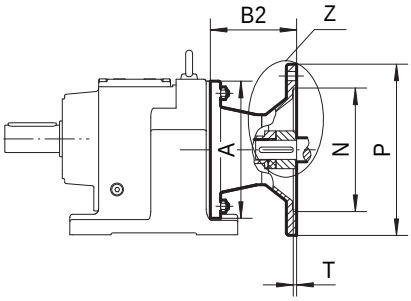
TR..AM(IEC)..

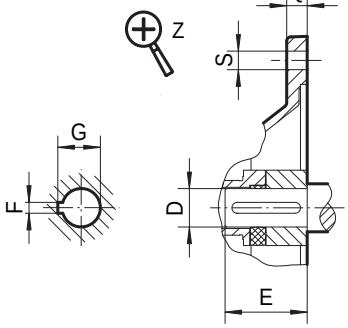
1/**Flange.1**



2/**Flange.2**







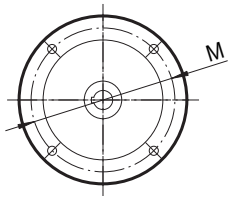
TR..	AM..	Flange.	A	B2	D	E	F	G	M	N	P	Q	S	T
TR..28 TR..38	AM63	1	120	72	11	23	4	12.8	115	95	140	10	4-Φ 9	3.5
	AM71 1)				14	30	5	16.3	130	110	160			
	AM80 1)			106	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	AM90 1)				24	50	8	27.3						
TR..48 2) TR..58 TR..68	AM63	1	160	66	11	23	4	12.8	115	95	140	10	4-Φ 9	3.5
	AM71				14	30	5	16.3	130	110	160			
	AM80			99	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	AM90				24	50	8	27.3						
	AM100 1)			134	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112 1)													
	AM132S/M 1)			191	38	80	10	41.3	265	230	300	16		
TR..78	AM63	1	200	60	11	23	4	12.8	115	95	140	10	4-Φ 9	3.5
	AM71				14	30	5	16.3	130	110	160			
	AM80			92	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	AM90				24	50	8	27.3						
	AM100 1)			126	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112 1)													
	AM132S/M 1)			179	38	80	10	41.3	265	230	300	16		
	AM132ML 1)													
TR..88	AM80	1	250	87	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	AM90				24	50	8	27.3						
	AM100			121	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M			174	38	80	10	41.3	265	230	300	16		
	AM132ML													
	AM160 1)			232	42	110	12	45.3	300	250	350	18	4-Φ 17.5	6
	AM180 1)				48		14	51.8						

1) Dimension P/2 may protrue past foot mounting surface,please check.

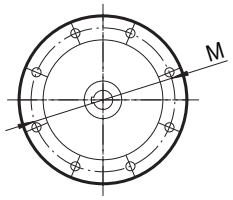
2) not with AM112.

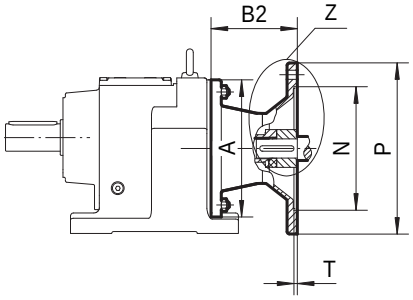
TR..AM(IEC)..

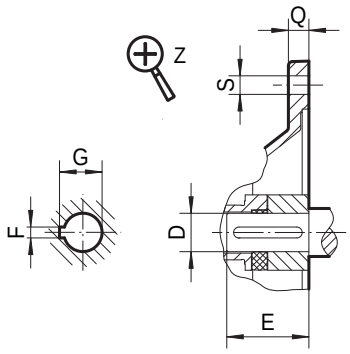
1/***Flange.1***



2/***Flange.2***





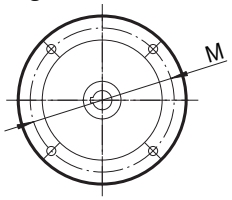


TR..	AM..	Flange.	A	B2	D	E	F	G	M	N	P	Q	S	T
TR..98	AM100	1	300	116	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M			169	38	80	10	41.3	265	230	300	16		
	AM132ML													
	AM160			227	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			268	55		16	59.3	350	300	400	20		7
TR..108	AM100	1	350	110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M			163	38	80	10	41.3	265	230	300	16		
	AM132ML													
	AM160			221	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			262	55		16	59.3	350	300	400	20		7
	AM225	2		277	60	140	18	64.4	400	350	450	22	8-Φ17.5	
TR..138	AM132S/M	1	400	148	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
	AM132ML													
	AM160			206	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			247	55		16	59.3	350	300	400	20		7
	AM225	2		262	60	140	18	64.4	400	350	450	22	8-Φ17.5	
TR..148	AM132S/M	1	450	148	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
	AM132ML													
	AM160			206	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			247	55		16	59.3	350	300	400	20		7
	AM225	2		262	60	140	18	64.4	400	350	450	22	8-Φ17.5	
	AM250			336	65			69.4	500	450	550	25		
	AM280				75		20	79.9						
TR..168	AM160	1	550	198	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180				48		14	51.8						
	AM200			239	55		16	59.3	350	300	400	20		7
	AM225	2		254	60	140	18	64.4	400	350	450	22	8-Φ17.5	
	AM250			328	65			69.4	500	450	550	25		
	AM280				75		20	79.9						

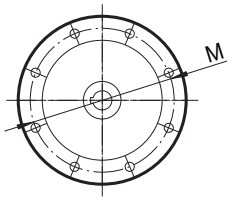
7.4 TR.. TAM(IEC).. Outline Dimension

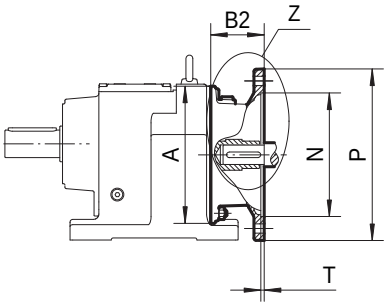
TR..TAM(IEC)..

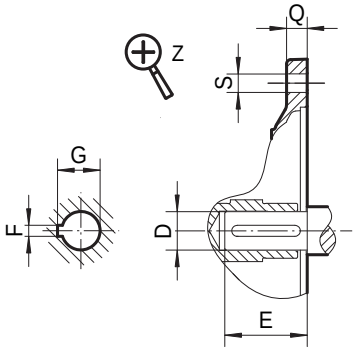
1/***Flange.1***



2/***Flange.2***







TR..	TAM..	Flange.	A	B2	D	E	F	G	M	N	P	Q	S	T
TR..28 3) TR..38	TAM63	1	120	40	11	23	4	12.8	115	95	140	10	4-Φ 9	3.5
	TAM71 1)			45	14	30	5	16.3	130	110	160			
	TAM80 1)			56	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	TAM90 1)			66	24	50	8	27.3						
	TAM100 1)			105	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
TR..48 2) TR..58 TR..68	TAM63	1	160	46	11	23	4	12.8	115	95	140	10	4-Φ 9	3.5
	TAM71			51	14	30	5	16.3	130	110	160			
	TAM80			49	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	TAM90			59	24	50	8	27.3						
	TAM100 1)			86	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	TAM112 1)			86										
	TAM132S/M 1)			111	38	80	10	41.3	265	230	300	16		
TR..78	TAM63	1	200	40	11	23	4	12.8	115	95	140	10	4-Φ 9	3.5
	TAM71			45	14	30	5	16.3	130	110	160			
	TAM80			59	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	TAM90			69	24	50	8	27.3						
	TAM100 1)			78	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	TAM112 1)			78										
	TAM132S/M 1)			109	38	80	10	41.3	265	230	300	16		
	TAM132ML 1)													

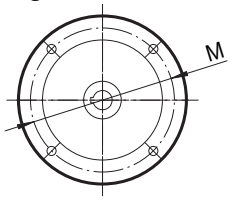
1) Dimension P/2 may protrue past foot mounting surface,please check.

2) not withTAM112.

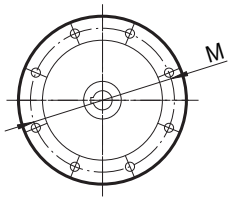
3) not with TAM100.

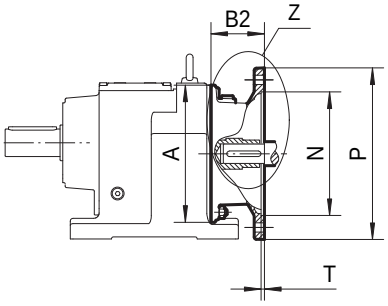
TR..TAM(IEC)..

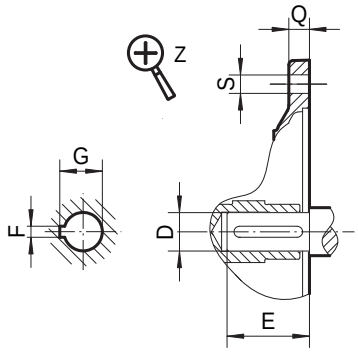
1/***Flange.1***



2/***Flange.2***







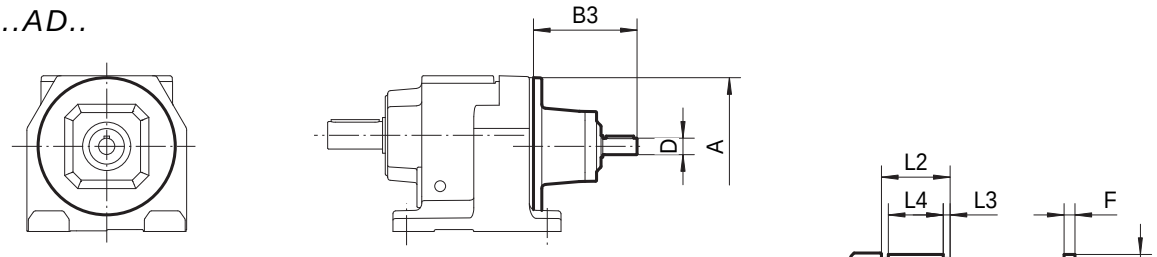
TR..	TAM..	Flange.	A	B2	D	E	F	G	M	N	P	Q	S	T
TR..88	TAM80	1	250	54	19	40	6	21.8	165	130	200	12	4-Φ 11	4.5
	TAM90			64	24	50	8	27.3						
	TAM100			73	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	TAM112			73										
	TAM132S/M			104	38	80	10	41.3	265	230	300	16		
	TAM132ML													
	TAM160 1)			142	42	110	12	45.3	300	250	350	18	4-Φ 17.5	6
	TAM180 1)				48		14	51.8						
TR..98	TAM90	1	300	57	24	50	8	27.3	165	130	200	12	4-Φ11	4.5
	TAM100			78	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	TAM112			78										
	TAM132S/M			99	38	80	10	41.3	265	230	300	16		
	TAM132ML													
	TAM160			137	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	TAM180				48		14	51.8						
TR..108	TAM100	1	350	72	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	TAM112			72										
	TAM132S/M			93	38	80	10	41.3	265	230	300	16		
	TAM132ML													
	TAM160			131	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	TAM180				48		14	51.8						

1) Dimension P/2 may protrue past foot mounting surface,please check.

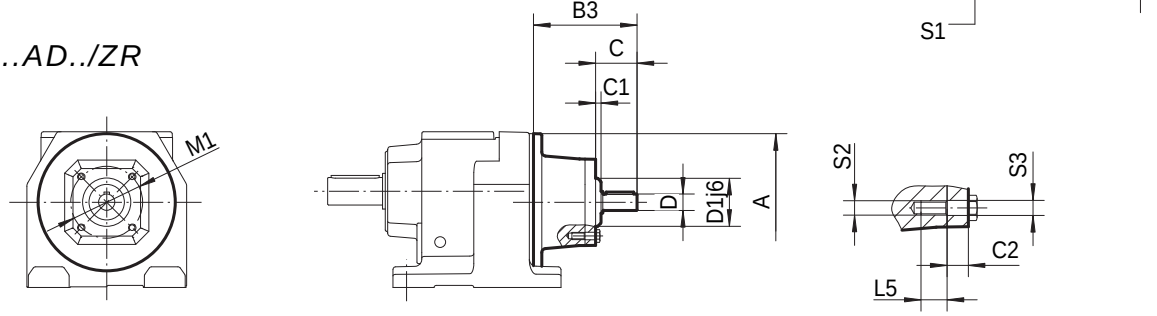
7.5 TR.. AD.. Outline Dimension

TR..AD..

TR..AD..



TR..AD../ZR

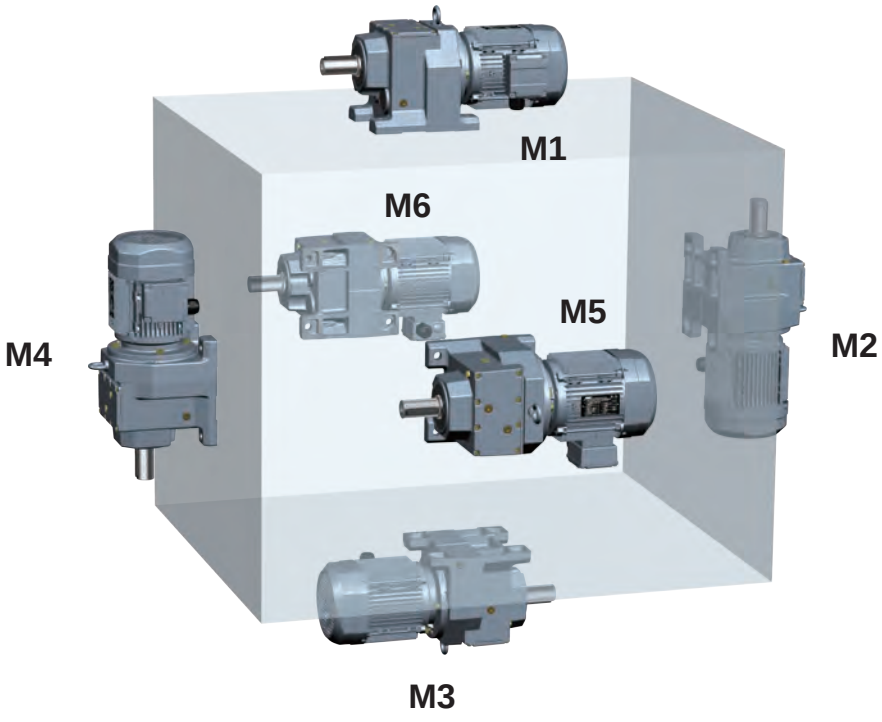


TR..	AD..	A	B3	C	C1	C2	D	D1	F	G	L2	L3	L4	L5	M1	S1	S2	S3
TR..28	AD1	120	102	-	-	-	16	-	5	18	40	4	32	-	-	M5X12.5	-	-
TR..38	AD2,AD2/ZR		130	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	M8	9
TR..48 TR..58	AD2,AD2/ZR	160	123	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	M8	9
TR..68	AD3,AD3/ZR		159	60	8	15.5	24	70	8	27	50	5	40	16	105	M8X19	M10	11
TR..78	AD2,AD2/ZR	200	116	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	M8	9
	AD3,AD3/ZR		151	60	8	15.5	24	70	8	27	50	5	40	16	105	M8X19	M10	11
	AD4,AD4/ZR		224	95.5	13	16	38	100	10	41	80	5	70	20	130	M12X28	M12	13.5
TR..88	AD2,AD2/ZR	250	111	50	8	13.5	19	55	6	21.5	40	4	32	12	80	M6X16	M8	9
	AD3,AD3/ZR		156	70	8	15.5	28	70	8	31	60	5	50	16	105	M8X19	M10	11
	AD4,AD4/ZR		219	95.5	13	16	38	100	10	41	80	5	70	20	130	M12X28	M12	13.5
	AD5, AD5/ZR		292	126	11	24	42	120	12	45	110	10	70	20	180	M16X36	M12	13.5
TR..98	AD3,AD3/ZR	300	151	70	8	15.5	28	70	8	31	60	5	50	16	105	M8X19	M10	11
	AD4,AD4/ZR		214	95.5	13	16	38	100	10	41	80	5	70	20	130	M12X28	M12	13.5
	AD5,AD5/ZR		287	126	11	24	42	120	12	45	110	10	70	20	180	M16X36	M12	13.5
	AD6,AD6/ZR		327	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16X36	M16	17.5
TR..108	AD3,AD3/ZR	350	145	70	8	15.5	28	70	8	31	60	5	50	16	105	M8X19	M10	11
	AD4,AD4/ZR		208	95.5	13	16	38	100	10	41	80	5	70	20	130	M12X28	M12	13.5
	AD5,AD5/ZR		281	126	11	24	42	120	12	45	110	10	70	20	180	M16X36	M12	13.5
	AD6,AD6/ZR		321	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16X36	M16	17.5
TR..138	AD4,AD4/ZR	400	201	95.5	13	16	38	100	10	41	80	5	70	20	130	M12X28	M12	13.5
	AD5,AD5/ZR		274	126	11	24	42	120	12	45	110	10	70	20	180	M16X36	M12	13.5
	AD6,AD6/ZR		314	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16X36	M16	17.5
	AD7,AD7/ZR		308	133	13	19	55	125	16	59	110	10	90	30	190	M20X42	M20	22
TR..148	AD4,AD4/ZR	450	193	95.5	13	16	38	100	10	41	80	5	70	20	130	M12X28	M12	13.5
	AD5,AD5/ZR		266	126	11	24	42	120	12	45	110	10	70	20	180	M16X36	M12	13.5
	AD6,AD6/ZR		306	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16X36	M16	17.5
	AD7,AD7/ZR		300	133	13	19	55	125	16	59	110	10	90	30	190	M20X42	M20	22
	AD8,AD8/ZR		383	155	5	22.5	70	120	20	74.5	140	15	110	19.5	210	M20X42	M12	13.5
TR..168	AD5,AD5/ZR	550	258	126	11	24	42	120	12	45	110	10	70	20	180	M16X36	M12	13.5
	AD6,AD6/ZR		298	130.5	11	22.5	48	130	14	51.5	110	10	80	26	200	M16X36	M16	17.5
	AD7,AD7/ZR		292	133	13	19	55	125	16	59	110	10	90	30	190	M20X42	M20	22
	AD8,AD8/ZR		374	155	5	22.5	70	120	20	74.5	140	15	110	19.5	210	M20X42	M12	13.5

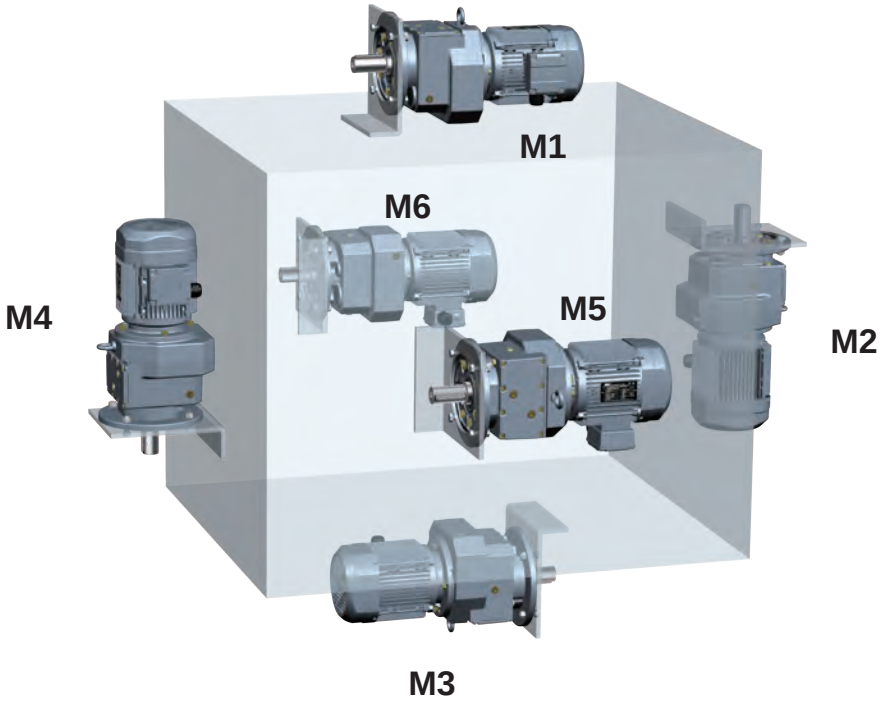
8. MOUNTING POSITIONS

8.1 Mounting position designation

Differentiates between six mounting positions M1 ... M6 for gear units. The following figure shows thespatial orientation of the gearmotor in mounting positions M1 ... M6.



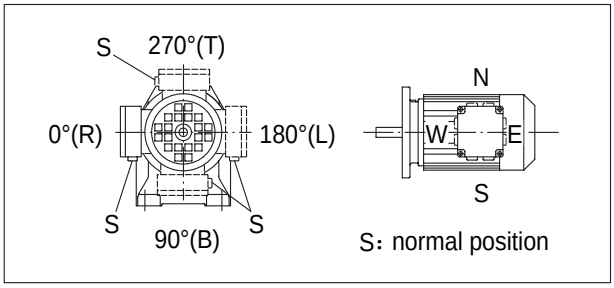
TR..

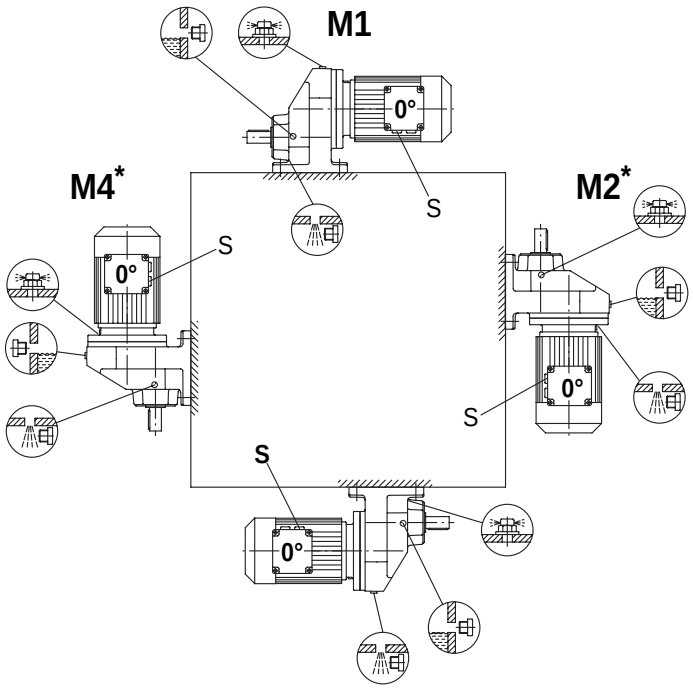


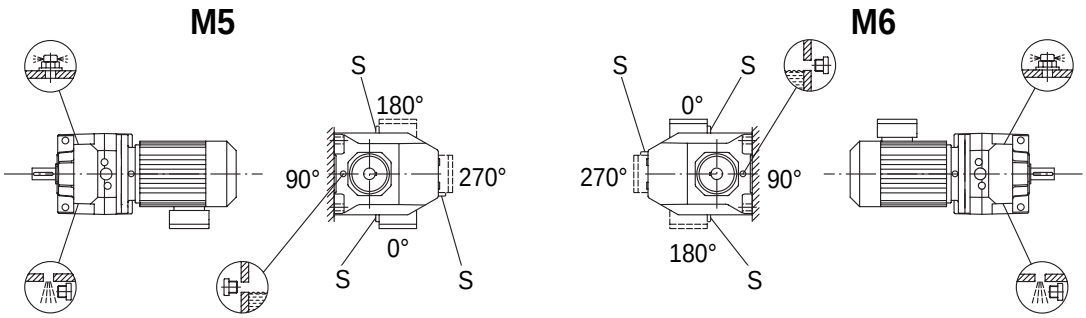
8.2 TRX.. *Mounting positions for helical geared motors*

TRX58 - TRX108

Symbol	Meaning
	Breather valve
	Oil level plug
	Oil drain plug



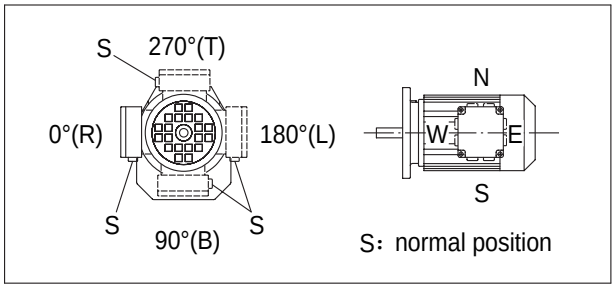


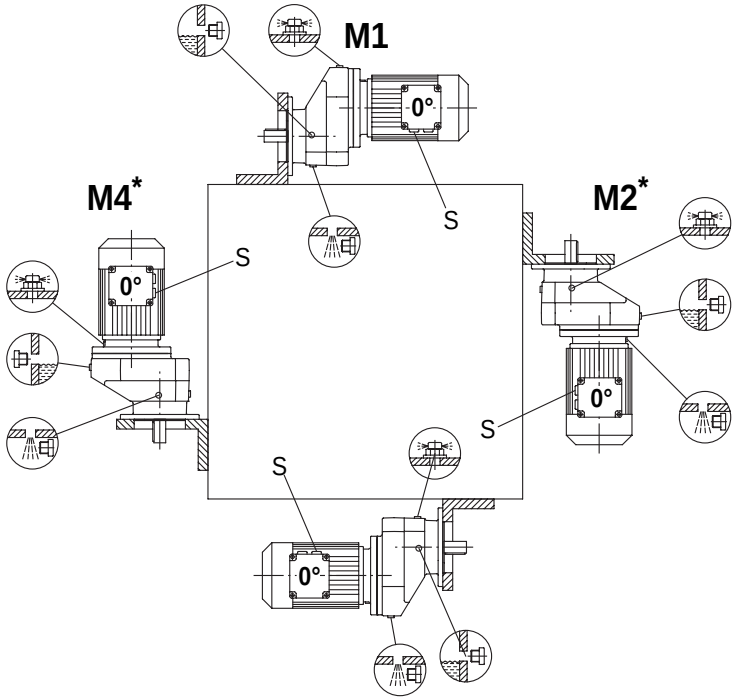


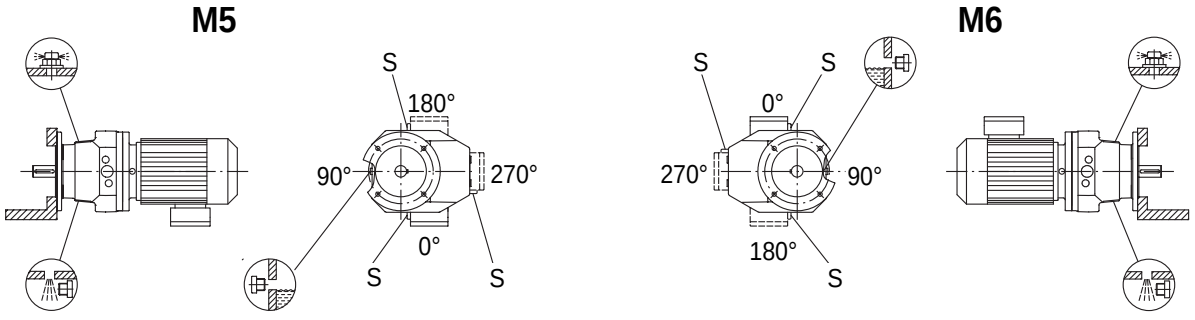
Important: Please refer to the i information in the 'Geared Motors' catalog, Sec(page 8).

TRXF58 - TRXF108

Symbol	Meaning
	Breather valve
	Oil level plug
	Oil drain plug







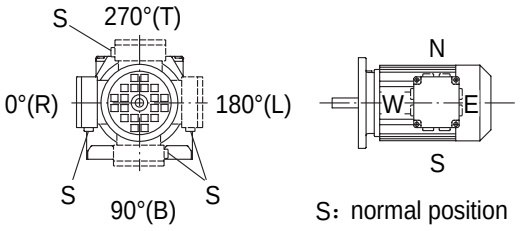
Important: Please refer to the i information in the 'Geared Motors' catalog, Sec(page 8).

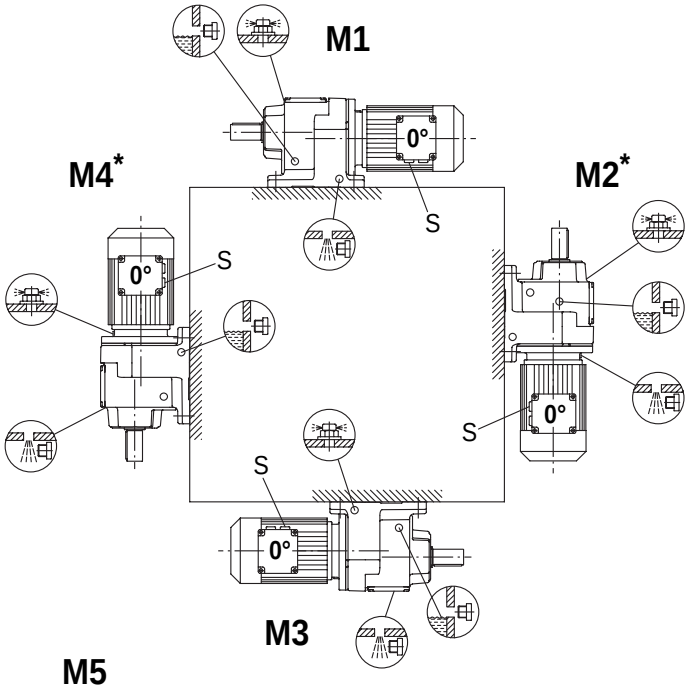
8.3 TR..

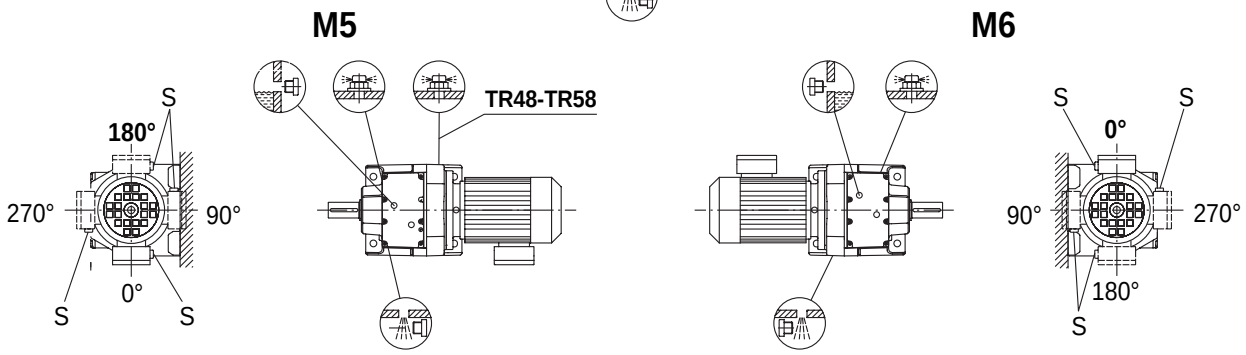
Mounting positions for helical geared motors

TR18 - TR168

Symbol	Meaning
	Breather valve
	Oil level plug
	Oil drain plug

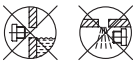






Mounting position	Gear unit size	Input speed [1/min]
M2*, M4*	98...108	>2500
	>108	>1500

TR28  **M1, M3, M5, M6**

TR28 

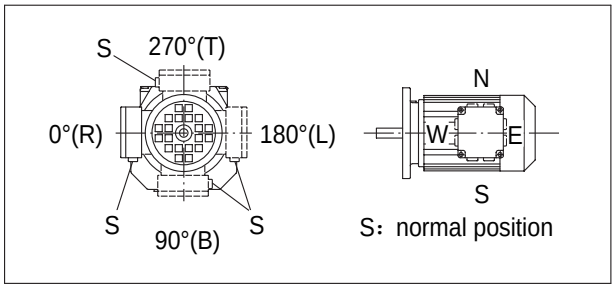
TR48,TR58  **M5**

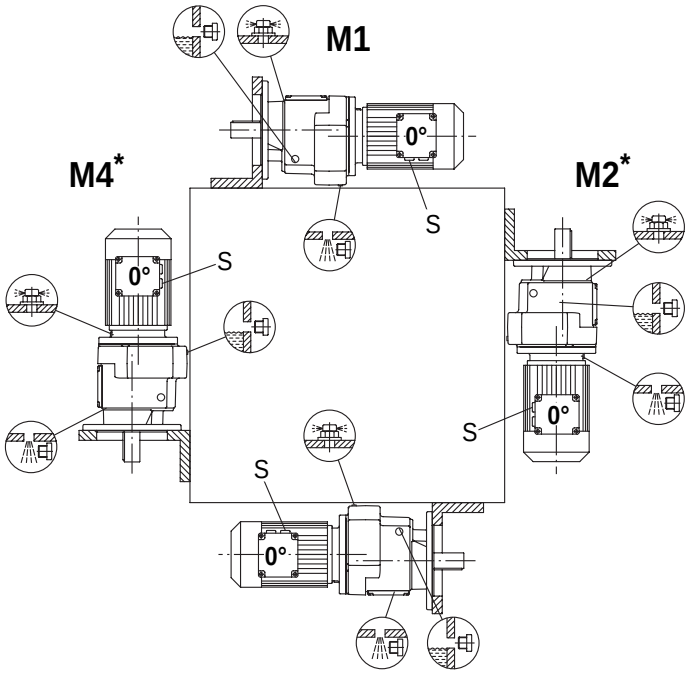
Increased churning losses may arise in some mounting positions. Contact NWE SUN TRANSMIT in case of the above-mentioned combinations.

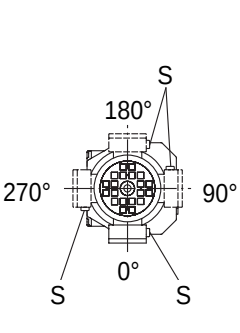
Important: Please refer to the i information in the 'Geared Motors' catalog, Sec(page 8).

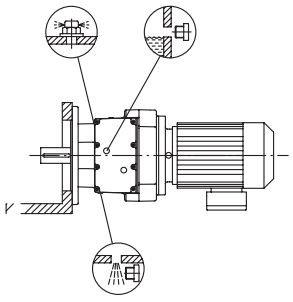
TRF18 - TRF168

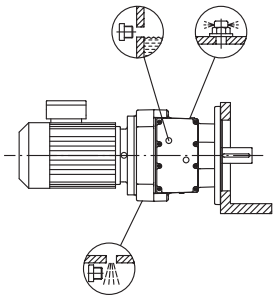
Symbol	Meaning
	Breather valve
	Oil level plug
	Oil drain plug

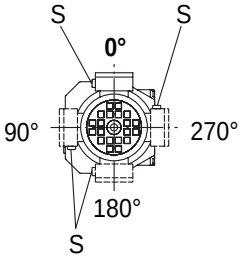












安装位置 Mounting position	齿轮箱规格 Gear unit size	输入转速 Input speed [1/min]
M2*, M4*	98...108	>2500
	>108	>1500

TRF28 **M1, M3, M5, M6**

TRF28

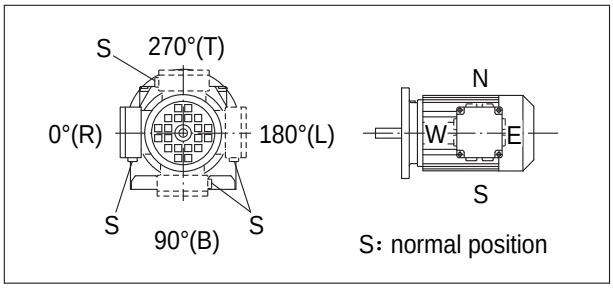
TRF48,TRF58 **M5**

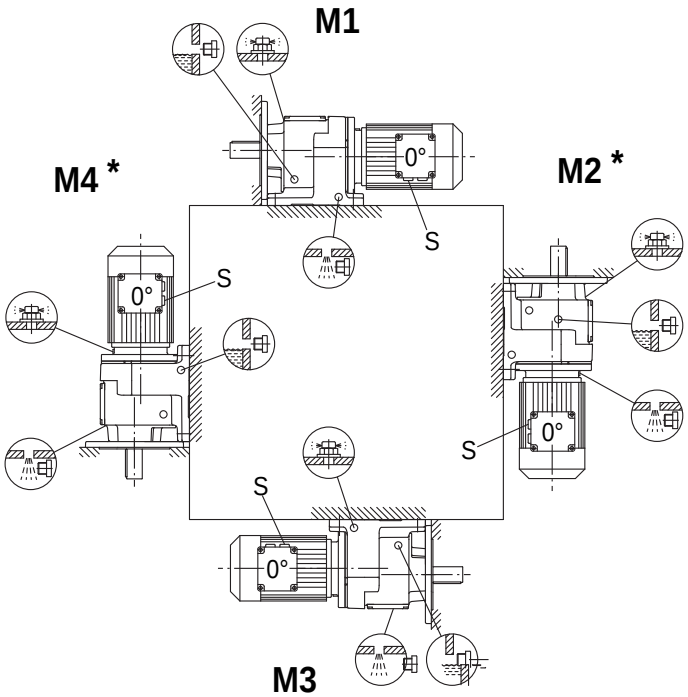
Increased churning losses may arise in some mounting positions. Contact NWE SUN TRANSMIT in case of the above-mentioned combinations.

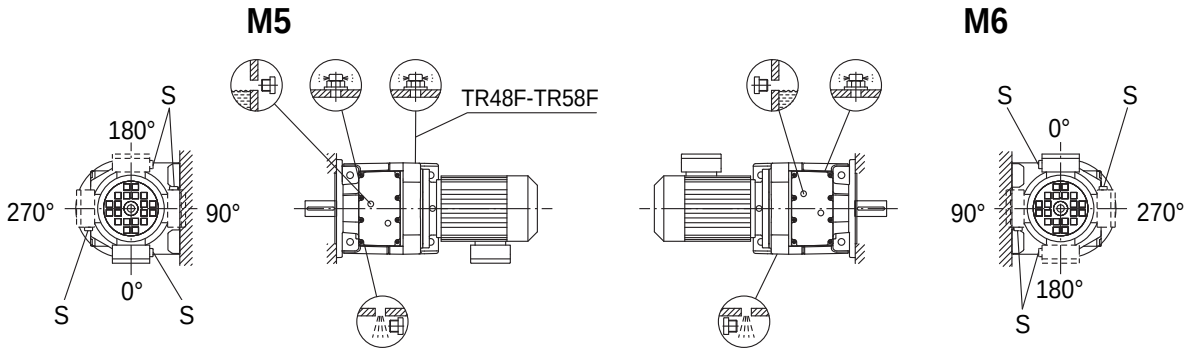
Important: Please refer to the information in the 'Geared Motors' catalog, Sec(page 8).

TR18F - TR88F

Symbol	Meaning
	Breather valve
	Oil level plug
	Oil drain plug







Important: Please refer to the i information in the 'Geared Motors' catalog, Sec(page 8).

TR28F	**M1, M3, M5, M6**
TR28F	
TR48F,TR58F	**M5**

9. INSTALLATION METHODS

9.1. Preparation before the installation:

a). Check if the data on the nameplates of the gearmotor matches the voltage supply system.

b). Check if the drive has not been damaged during transportation and storage.

c). For standard gear unit, the ambient temperature must be in accordance with the corresponding lubricant table.

d). The drive must not be assembled in conditions such as oil, gas, vapors, acids, radiation and so on.

e). Output shaft and flange surfaces must thoroughly cleaned to ensure they are free of anti-corrosion agents, contamination or similar. Use a commercially available solvent. Do not let the solvent come into contact with the sealing lip of the oil seals, or will damage the material!

f). The supporting structure must have the following characteristics: level, vibration damping and torsionally rigid.

g). So as to prevent the tolerance of fit of gear units from damaging, the parts assembled on the gear units must be worked as specified tolerance according to **ISOH7**.

9.2. the installation of the gear units:

a). Do not tighten the housing legs and mounting flanges against one another and ensure that you comply with the permitted radial load and axial load.

b). Never drive belt pulleys, couplings, pinions, etc. onto the shaft end by hitting them with a hammer. This will damage the bearing, housing and the shaft.

c). When installing the **IEC** couplings, remove the key from the motor shaft and replace it with the supplied key. Secure key and coupling half using grub screw and tighten to the motor shaft. Seal the contact surface between the adapter and motor using a suitable sealing compound.

d). Prior to startup, check that if the oil level is as specified for the mounting position. if the oil checking and drain screw and the breather valves are free accessible.

10. LUBRICATION

10.1 General information

Unless a special arrangement is made, TAUSEND supplies the drives with a lubricant fill adapted for the specific gear unit and mounting position. The decisive factor is the mounting position (M1 ... M6, → Sec. "Mounting Positions and Important Order Information") specified when ordering the drive. You must adapt the lubricant fill in case of any subsequent changes made to the mounting position (→ Lubricant fill quantities).

10.2 Anti-friction bearing greases

The lubricant table on the following page shows the permitted lubricants for TAUSEND gear units. Please note the following key to the lubricant table:

	AMBIENT TEMPERATURE	MANUFACTURER	MODEL	TYPE LUBRICANT
GEARS BEARING	-20°C ~ +60°C	Mobil	Mobilux EP 2	Mineral Oils
	-40°C ~ +80°C	Mobil	Mobiltemp SHC 100	Synthetic Oils
MOTOR BEARING	-20°C ~ +80°C	Esso	Unirex EQ3	Mineral Oils
	-20°C ~ +60°C	Shell	Alvania RL3	Mineral Oils
	-45°C ~ .25°C	Shell	Aero Shell Grease 16	Synthetic Oils

The following grease quantities are required:

- For fast-running bearings (motor and gear unit input end): Fill the cavities between the rolling elements one third full with grease.
- For slow-running bearings (in gear units and at gear unit output end): Fill the cavities between the rolling elements two thirds full with grease.

10.3 Types of lubrication

	℃ -50 0 +50 +100	ISO	SHELL	MOBIL	BP	lubrication type
TR..	Standard −10 +40	VG 220	Shell Omala S2 G220	Mobilgear 600 XP 220	BP Energol GR-XP 220	Mineral oil
	−20 +25	VG 150 VG 100	Shell Omala S2 G100	Mobilgear 600 XP 100	BP Energol GR-XP 100	
	−30 +10	VG 68-46 VG 32	Shell Tellus S2 V32	Mobil DTE 10 Excel™ 32		
	−40 −20	VG 22 VG 15	Shell Tellus S2 V15	Mobil DTE 10 Excel™ 15	BP Energol HLP-HM 15	
	−40 +80	VG 220	Shell Omala S4 GX220	Mobil SHC 630		Synthetic oil
	−40 +40	VG 150	Shell Omala S4 GX150	Mobil SHC 629		
	−40 +10	VG 32	Shell Omala S4 ATF HDX	Mobil SHC 624		

10.4 Lubricant fill quantity

The specified fill quantities are recommended values. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capacity. The following tables show guide values for lubricant fill quantities in relation to the mounting position M1 ~ M6.

TRX..:

Gear units	Fill quantity in liters (L)					
	M1**	**M2****	**M3**	**M4**	**M5**	**M6**
TRX58	0.60	0.80	1.30	1.30	0.90	0.90
TRX68	0.80	0.80	1.70	1.90	1.10	1.10
TRX78	1.10	1.50	2.60	2.70	1.60	1.60
TRX88	1.70	2.50	4.80	4.80	2.90	2.90
TRX98	2.10	3.40	7.40	7.00	4.80	4.80
TRX108	3.90	5.60	11.60	11.90	7.70	7.70

**** The large gear unit of multi-stage gear units must be filled with the larger oil volume.**

TRXF..B:

Gear units	Fill quantity in liters (L)					
	M1**	M2**	M3	M4	M5	M6
TRXF58	0.50	0.80	1.10	1.10	0.70	0.70
TRXF68	0.70	0.80	1.50	1.40	1.00	1.00
TRXF78	0.90	1.30	2.40	2.00	1.60	1.60
TRXF88	1.60	1.95	4.90	3.95	2.90	2.90
TRXF98	2.10	3.70	7.10	6.30	4.80	4.80
TRXF108	3.10	5.70	11.20	9.30	7.20	7.20

** **The large gear unit of multi-stage gear units must be filled with the larger oil volume.**

TR../TR..F:

Gear units	Fill quantity in liters (L)					
	M1**	M2**	M3	M4	M5	M6
TR28/TR28F	0.25/0.40	0.70	0.50	0.70	0.50	0.50
TR38/TR38F	0.30/0.95	0.85	0.95	1.05	0.75	0.95
TR48/TR48F	0.70/1.50	1.60	1.50	1.65	1.50	1.50
TR58/TR58F	0.80/1.70	1.90	1.70	2.10	1.70	1.70
TR68/TR68F	1.10/2.30	2.60/3.50	2.80	3.20	1.80	2.00
TR78/TR78F	1.20/3.00	3.80/4.10	3.60	4.10	2.50	3.40
TR88/TR88F	2.30/6.0	6.7/8.2	7.20	7.70	6.30	6.50
TR98	4.60/9.8	11.7/14.0	11.70	13.40	11.30	11.70
TR108	6.0/13.7	16.30	16.90	19.20	13.20	15.90
TR138	10.0/25.0	28.00	29.50	31.50	25.00	25.00
TR148	15.4/40.0	46.50	48.00	52.00	39.50	41.00
TR168	27.0/70.0	82.00	78.00	88.00	66.00	69.00

TRF../TRZ:

Gear units	Fill quantity in liters (L)					
	M1**	M2**	M3	M4	M5	M6
TRF/TRZ28	0.25/0.40	0.70	0.50	0.70	0.50	0.50
TRF/TRZ38	0.35/0.95	0.90	0.95	1.05	0.75	0.95
TRF/TRZ48	0.65/1.50	1.60	1.50	1.65	1.50	1.50
TRF/TRZ58	0.80/1.70	1.80	1.70	2.00	1.70	1.70
TRF/TRZ68	1.20/2.50	2.70/3.60	2.70	2.60	1.90	2.10
TRF/TRZ78	1.20/2.60	3.80/4.10	3.30	4.10	2.40	3.00
TRF/TRZ88	2.40/6.0	6.8/7.9	7.10	7.70	6.30	6.40
TRF98	5.1/10.2	11.9/14.0	11.20	14.00	11.20	11.80
TRF108	6.3/14.9	15.90	17.00	19.20	13.10	15.90
TRF138	9.5/25.0	27.00	29.00	32.50	25.00	25.00
TRF148	16.4/42.0	47.00	48.00	52.00	42.00	42.00
TRF168	26.0/70.0	82.00	78.00	88.00	65.00	71.00

11. MAINTENANCE

1). For gear units, first oil change should be after about 300 hours (run-in period). The right lotion is required to clean the gear units with care. Never mix the synthetic oil and mineral oil together.

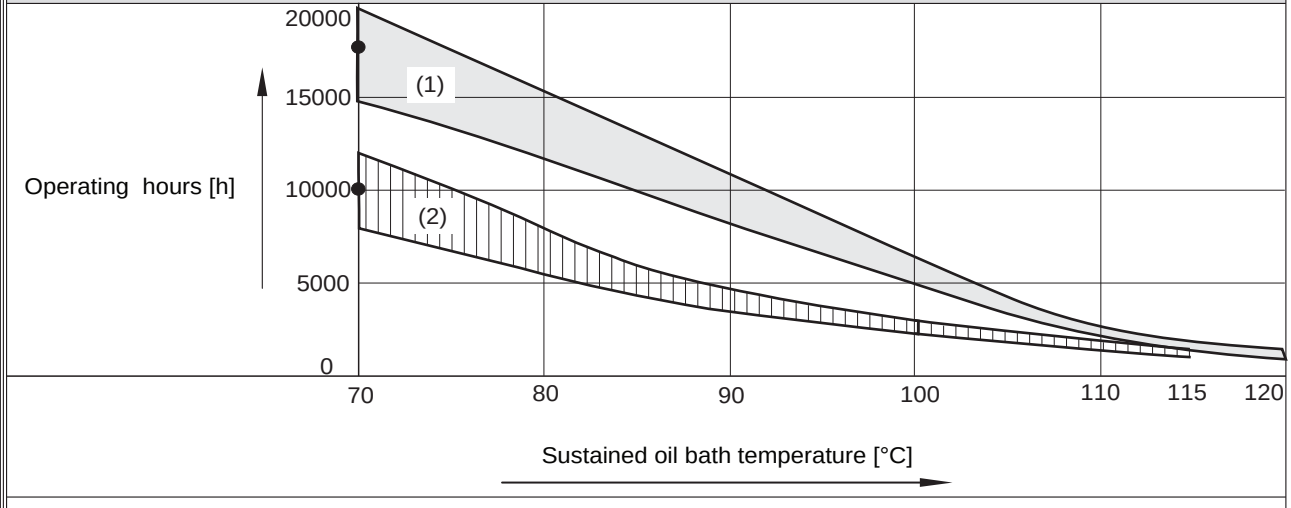
2). Every 3000 working time, at least every 6 months, you have to check the oil and oil level, the seals visually for leakage. For IEC input gear units, the elastomer should be tested or replaced if necessary.

3). Depending on the operating conditions (see chart below), every 3 years at the latest for inspection is needed. Then change the mineral oil and replace the bearing grease.

4). Depending on the operating conditions, change the oil seals on output shaft.

5). Once the malfunctions appear, stop disassembling the parts, and firstly please contact the customer service (the information about specification, delivery date, series number, time used, name of machine, machine manufacturer, malfunction problems is required) , then take the reasonable measures.

Oil change intervals for standard gear units under normal environmental conditions



- Average value per oil type at 70 °C

(1) Synthetic oil
(2) Mineral oil

12. STORAGE

1). Under roof, protected against rain and snow, no shock loads.

2). Underlay the block and other material between the ground and equipment.

3). The opened but not used gear units should be added with the anti-corrosive oil on its surface, and then return to the packing containers timely.

4). Two years or more given regular inspections. Check for cleanliness and mechanical damage as part of the inspection,Check corrosion protection.

13. NOTICE FOR ORDER

Please offer the following information when place the orders:

1). the model mark of the gear units(type, ratio, power and mounting position).

2). gear units are available with "blue/gray" painting optionally.Unless specified, it offers the blue painting as standard.

3). quantity ordered.

4). other special requirements.

5). company, contact and telephone.

14. MALFUNCTIONS

14.1 Gear unit malfunctions

Problem	Possible cause	Remedy
Unusual, regular running noise	A. Meshing/grinding noise: Bearing damage. B. Knocking noise: Irregularity in the gearing	A. Check the oil, change bearings B. Contact customer service
Unusual, irregular running noise	Foreign bodies in the oil	• Check the oil • Stop the drive, contact customer service
Oil leaking1) • From the gear cover plate • From the motor flange • From the motor oil seal • From the gear unit flange • From the output end oil seal	A. Rubber seal on the gear cover plate leaking B. Seal defective C. Gear unit not vented	A. Tighten the bolts on the gear cover plate and observe the gear unit. Oil still leaking:Contact customer service B. Contact customer service C. Vent the gear unit (see "Mounting Positions")
Oil leaking from breaking valve	A. Too much oil B. Drive operated in incorrect mounting position C. Frequent cold starts(oil foams) and/or high oillevel	A. Correct the oil level (see Sec. "Inspection and Maintenance") B. Mount the breather valve correctly (see Sec."Mounting Positions")and correct the oil level(see"Lubricants")
Output shaft does not turn although the motor is running or the input shaft is rotated	Connection between shaft and hub in gear unit interrupted	Send in the gear unit/gearmotor for repair

1) Short-term oil/grease leakage at the oil seal is possible in the run-in phase (24 hours running time).

14. 2 IEC couplings malfunctions

Problem	Possible cause	Remedy
Unusual, regular running noise	Meshing/grinding noise: Bearing damage	Contact our company customer service
Oil leaking	Seal defective	Contact our company customer service
Output shaft does not turn although the motor is running or the input shaft is rotated	Connection between shaft and hub in gear unit interrupted	Send the gear unit to our company for repair.
Change in running noise and / or vibrations occur	A. Annular gear wear, short-term torque transfer through metal contact B. Bolts to secure hub axially are loose.	A. Change the annular gear B. Tighten the bolts
Premature wear in annular gear	A. Contact with aggressive fluids / oil; ozone influence; too high ambient temperatures etc, which can cause a change in the physical properties of the annular gear. B. Impermissibly high ambient/contact temperature for the annular gear; maximum permitted temperature –20 °C to +80 °C. C. Overload	Contact our company customer service

15. Charge Characteristic Chart (for reference)

AIR BLOWERS	
Air blower(axial or radial)	A
Fan of cooling tower	B
Induced draught fan	B
Rotary piston type fan	B
Turbo-fan	A
CONSTRUCTION MACHINERY	
Concrete mixer	B
Hoist	B
Road building machinery	B
Boring mill	B
CHEMICAL MACHINERY	
Mixer (liquid)	A
Mixer (half liquid)	B
Centrifuge (heavy)	B
Centrifuge(light)	A
** Cooling rolling drum	B
** Dry rolling drum	B
Mixer	B
COMPRESSOR	
Piston type compressor	C
Turbo-compressor	B
TRANSMISSION FREIGHTER	
Pan conveyer	B
Balance lifter	B
Trough conveyer	B
Ribbon conveyer (large piece)	C
Ribbon coveyer (small piece)	B
Drum-type flour conveyer	A
Chain conveyer	B
Ring type conveyer	B
Lifter	B
Hoist	B
Crank-connecting conveyer	B
Lifter	B
Worm conveyer	B
Steel-band conveyer	B
Chain reed-type conveyer	B
Crab freighter	B
HOIST	
Bracket swing gear assembly	B
Hoist gear assembly	A
Derrick gear assembly	B
Steering gear assembly	B
Moving gear assembly	C
LAND DREDGER	
Drum-type coveyer	C
Drum-type rotation wheel	C
Dredger head	C
Powered crab	B
Pump	B
Pump turning gear assembly	B
Moving gear assemhly (apron wheel)	C
Moving gear assembly (track)	B
FOODSTUFF PROCESSING MACHINERY	
Placer or box filler	A
Cane crusher	A
** Cane cutter	B
** Cane crasher	C
Mixer	B
Paste bucket	B
Packager	A
Beet slicer	B
Beet washing machine	B
MOTOR AND CONVERSION EQUIPMENTS	
Frequency converter	C
Motor	C
Welding motor	C
WASHING MACHINE	
Rolling drum	B
Washing machine	B
METAL ROLLER MACHINE	
** Steel cutter	C
** Chain conveyer	B
** Cold mill	C
Continuous casting equipments	B
** Cold bed	B
** Cropper	C
** Cross steering transmitter	B
** Deruster	C
** Heavy and medium steel mill	C
** Bar mill	C

BAR TRANSMISSION EQUIPMENTS	B	PUMPS	
Bar pusher	B	Centrifugal pump （thin liquid）	A
Push bed	B	Centrifugal pump (half liquid)	B
** Shears	C	Displacement pump	C
** Lumber elevator platform	B	Plunger pump	C
ROLL ADJUSTING EQUIPMENTS	B	Force pump	C
Roller leveling machine	B	PLASTIC EQUIPMENTS	
** Mill rolling way (heavy)	C	** Glazing press	B
** Mill rolling way (light)	B	** Ejecting press	B
** Sheet rolling mill	C	** Spiral extruding machine	B
** Trimming shears	B	** Mixing machine	B
Pipe welder	C	RUBBER EQUIPMENT	
Soldering machine(belt material and wire rod)	B	** Glazing press	B
Wire drawbench	B	** Ejecting press	C
METAL PROCESSING MACHINE TOOLS		** Mixing stir machine	B
Power shaft	A	Kneading machine	B
** Forging machine	C	** Roller machine	C
Drop hammer	C		
Machine tool and necessary	A	STONE PORCELAIN CLAY PROCESSING EQUIPMENTS	
Machine tool and main driving equipment	B	Ball crusher	B
Metal facing machine	C	** Ejecting press and breaker	C
Plate-leveling machine tool	C	Breaker	C
Backing-out punch	C	Brick press	C
Press machine tool	C	** Beating crusher	C
Cutting machine	B	** Converter	C
Sheet bending machine tool	B	** Cylinder mill	C
PETROLEUM PROCESSING MACHINERY		TEXTILE MACHINERY	
** Pump of oil pipe line	B	Feeding machine	B
Rotary drilling equipment	C	Loom machine	B
PAPERING MACHINE		Dyeing machine	B
** Glazing press	C	Purified drum	B
** Multilayer paper board machine	C	Welon machine	B
** Drying cylinder	C	WASTER TREATMENT EQUIPMENTS	
** Glazing cylinder	C	** Air blast	B
** Masher	C	Screw pump	B
** Mashing and breaking machine	C	WOOD PROCESSING MACHINE TOOL	
** Suction roll	C	Barker	C
** Wet paper roller machine	C	Facing machine	B
** Water absorbing roller machine	C	Saw bench	C
Welon machine	C	Wood processing machine tool	A

Note: A - Uniform load; B - Moderate shock load; C - Heavy shock load; ** - for 24hour system.

REDUCTORES TAUSEND

REDUCTORES Y VARIADORES

CORONA Y SINFÍN

TIPO	P.V.P
RSTV-025	131
RSTV-030	134
RSTV-040	150
RSTV-050	195
RSTV-063	275
RSTV-075	386
RSTV-090	532
RSTV-110	815
RSTV-130	1.138

VARIADOR VTT / F

TAMAÑO	P.V.P
0,25 Cv	416
0,50 Cv	446
1,00 Cv	520
2,00 Cv	832
3,00 Cv	1.382
5,50 Cv	1.433

PRE-REDUCCIÓN - PC

TAMAÑO	ENTRADA	SALIDA	P.V.P
PC 63	140/11	105/11	219
PC 71	160/14	120/14	234
PC 80	200/19	160/19	316
PC 90	200/24	160/24	321

KIT UNIÓN

TAMAÑO	EJE	P.V.P	TAMAÑO	EJE	P.V.P
30/40	14X14	46	50/75	25X24	55
30/40	11X14	46	50/110	25X28	55
30/50	14X14	46	50/110	25X24	55
30/50	14X11	46	63/75	25X24	65
30/63	14X14	46	63/110	25X28	65
40/75	18X19	48	63/130	25X24	65
40/90	18X19	48	63/130	25X28	65
50/75	25X28	55	63/130	25X38	65

ACCESORIOS

	TAMAÑO	25	30	40	50	63	75	90	110	130
	BRIDA FA	11	12	14	15	18	33	37	108	130
	BRIDA FB	***	***	14	20	23	25	63	141	***
	BRIDA FC	***	***	17	24	33	***	42	***	***
	BRIDA FD	***	***	13	17	34	***	53	***	***
	BRIDA FE	***	***	***	***	21	***	***	***	***
	BRIDAS PAM	***	18	23	36	38	56	56	78	78
	BRAZO	14	14	17	19	23	33	43	63	82
	EJE SIMPLE	12	13	16	19	22	27	40	49	60
	EJE DOBLE	***	16	19	24	28	33	46	57	74
	CARCASAS	34	41	48	63	82	114	174	264	351
	RETEN CIEGO	2,10	2,10	3,15	3,15	4,20	6,30	6,30	7,35	7,35
	TAPA CORONA	2,10	3,15	3,15	4,20	4,20	5,25	5,25	7,35	9,45
	CASQUILLO	9/11	11/14	14/19	19/24	24/28	28/38			
		11	13	15	18	20	27			

REDUCTORES COAXIAL TR

TAMAÑO	PAM	P.V.P
TR28-2T	71	473
TR28-2T	80-90	493
TR28-3T	71	554
TR28-3T	80-90	574
TR48-2T	71	625
TR48-2T	80-90	660
TR48-2T	100-112	704
TR48-2T	132	761
TR48-3T	63-71	711
TR48-3T	80-90	745
TR58-2T	63-71	698
TR58-2T	80-90	733
TR58-2T	100-112	777
TR58-2T	132	834
TR58-3T	63-71	797
TR58-3T	80-90	831
TR58-3T	100-112	875

TAMAÑO	PAM	P.V.P
TR78-2T	80-90	1.108
TR78-2T	100	1.160
TR78-2T	132	1.229
TR78-3T	63-71	1.190
TR78-3T	80-90	1.233
TR78-3T	100-112	1.284
TR88-2T	80-90	1.644
TR88-2T	100-112	1.709
TR88-2T	132	1.792
TR88-2T	160	1.905
TR88-3T	80-90	1.816
TR88-3T	100-112	1.881
TR88-3T	132	1.964

IVA no incluido. Precios brutos. CONSULTE SU DESCUENTO. Tarifa sujeta a variación sin previo aviso. La presente tarifa anula a las anteriores.