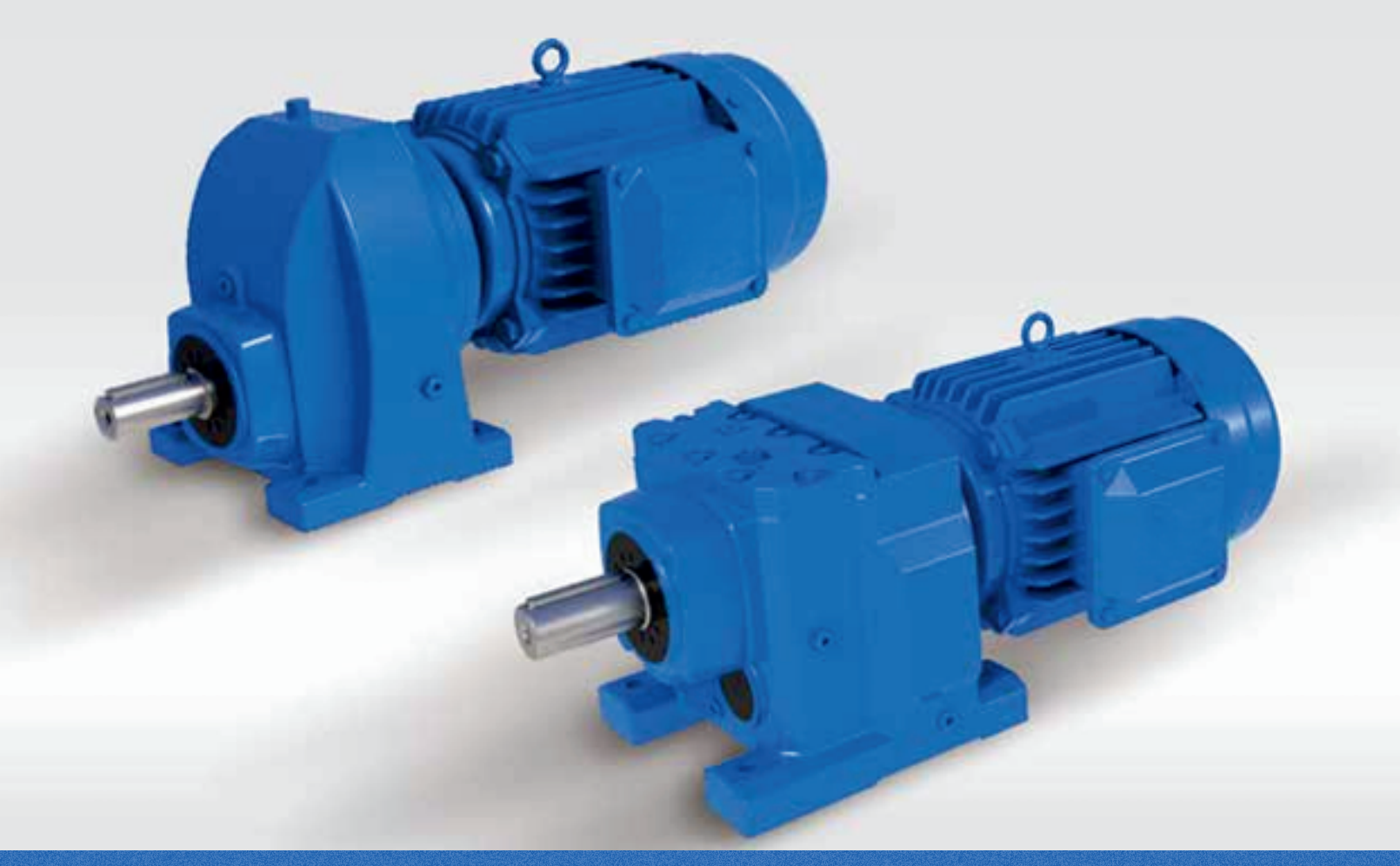
SMC
(주)신명전기



R Series Helical Gear Units

Note!

1. The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. If you need exact dimension of certain types, please contact our sales dept.. (The unmarked dimension units are mm).
2. Gear unit has been tested before delivered, users should add lubrication oil before running.
3. We can only refer to the marked oil in the mannul. Actual oil filling level should be the same with the mark on oil immersion lens.
4. Lubrication oil viscosity should be selected according to working conditions and ambient temperature.
5. To prevent accidents, all the rotation parts should be added with protective covers according to safety regulation of the nation and region.
6. The solid shaft input structure gear unit is not equipped with any motor.
7. Unless otherwise specified, you will receive the terminal box at 0°.

1. 샘플에 포함된 구조도, 외형도 및 기타 첨부 도면은 예시용이며, 엄격한 비율 기준은 적용되지 않습니다. 특정 모델의 정확한 치수가 필요한 경우 당사 영업부로 문의해 주시기 바랍니다. (별도 표기가 없는 치수 단위는 mm입니다.)
2. 기어 유닛은 출고 전에 시험 운전을 완료하였으며, 사용 전 반드시 윤활유를 주입한 후 운전해야 합니다.
3. 매뉴얼에 표시된 오일만 참고용으로 제공됩니다. 실제 오일 주입량은 오일 레벨 게이지의 표시선과 동일한 수준으로 맞춰야 합니다.
4. 윤활유의 점도는 사용 조건 및 주변 환경 온도에 따라 적절히 선택해야 합니다.
5. 사고 방지를 위해 모든 회전 부위에는 해당 국가 및 지역의 안전 규정에 따라 보호 커버를 설치해야 합니다.
6. 중실축 입력 구조의 기어 유닛에는 모터가 포함되어 있지 않습니다.
7. 별도 지정이 없는 경우, 단자함은 0° 위치로 제공됩니다.

Guidelines for the selection

▫ Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times.but the practical condition will be not as perfect as the designed circumstance.so we must confirm driven machine factor f1,prime mover factor f2,starting factor f3 according to actual load type, operating time,starting frequency.let it less than or equale to the service factor fb of selection table,viz f1×f2×f3≤fb.the needed torque of service machine multiply the service factor (f1×f2×f3) should less than or equale to gear units' permissible torque.

Viz $T_n \geq T2 \times f1 \times f2 \times f3$

f1 — Driven machine factor(See table 1)
f2 — Prime mover factor(See table 2)
f3 — Start factor(See table 3)
T2— The torque required by driven machine
T_n— Gear unit permissible torque(See page 03)

▫ We accept the orders of products of special specification, and provide our customer with exclusive design service.

▫ Along with the technology advanced etc., the product of the mannul of SMC will be changed, please forgive.

선정 가이드라인

▫ 기어 유닛은 일정한 부하 조건, 규정된 일일 운전 시간 및 적은 기동 횟수를 기준으로 설계되었습니다. 그러나 실제 사용 환경은 설계 조건만큼 이상적이지 않을 수 있으므로, 실제 부하 유형, 운전 시간 및 기동 빈도에 따라 구동 기계 계수 f1, 원동기 계수 f2, 기동 계수 f3를 반드시 확인해야 합니다.
또한 f1 × f2 × f3의 값은 선정표의 서비스 계수 fb 이하이어야 합니다.
즉:
f1×f2×f3≤fb
서비스 기계에 필요한 토크에 서비스 계수(f1 × f2 × f3)를 곱한 값은 기어 유닛의 허용 토크 이하이어야 합니다.
즉:
Tn≥T2×f1×f2×f3

- f1 — 구동 기계 계수 (표 1 참조)
- f2 — 원동기 계수 (표 2 참조)
- f3 — 기동 계수 (표 3 참조)
- T2 — 구동 기계에 필요한 토크
- T_n — 기어 유닛의 허용 토크 (3페이지 참조)

▫ 당사는 특수 사양 제품 주문을 접수하며, 고객 맞춤형 전용 설계 서비스를 제공합니다.
▫ 기술 발전 등에 따라 SMC 매뉴얼에 기재된 제품 내용은 예고 없이 변경될 수 있으니 양해 부탁드립니다.

Service factor:

Table 1 — Driven machine factor f1

Driven equipment	Daily operating time with load(hour) ≤ 2	> 2–10	> 10
Sewage treatment			
Concentrator(Central Transmission)	–	–	1.2
Compressed filter	1.0	1.3	1.5
Flocculator	0.8	1.0	1.3
Aerator	–	1.8	2.0
Collector	1.0	1.2	1.3
Vertical,rotary group			
Blended collector	1.0	1.3	1.5
Concentrator	–	1.1	1.3
Screw pump	–	1.3	1.5
Water wheel machine	–	–	2.0
Pump			
Centrifugal pump	1.0	1.2	1.3
Volume–down pump			
1Piston	1.3	1.4	1.8
>1Piston	1.2	1.4	1.5
Dredge			
Bucket conveyor	–	1.6	1.6
Unloading device	–	1.3	1.5
Carterpillar traveling mechanism	1.2	1.6	1.8
Bucket digger			
Be used for picking up	–	1.7	1.7
Be used for rough materials	–	2.2	2.2
Chopper	–	2.2	2.2
Traveling mechanism*	–	1.4	1.8
Plate blender	–	1.0	1.0
Chemical industry			
Extruder	–	–	1.6
Paste mixer	–	1.8	1.8
Rubber calendar	–	1.5	1.5
Cooling cylinder	–	1.3	1.4
Material mixer,be used for			
Uniform medium	1.0	1.3	1.4
Non–uniform medium	1.4	1.6	1.7
Blender,be used for			
Uniform density medium	1.0	1.3	1.5
Un–uniformed medium	1.2	1.4	1.6
Un–uniformed gas absorption	1.4	1.6	1.8
Oven	1.0	1.3	1.5
Centrifugal machine	1.0	1.2	1.3
Metal processing equipment			
Plate turnover	1.0	1.0	1.2
Steel pushing device	1.0	1.2	1.2
Winding machine	–	1.6	1.6
Cooling bed transverse frame	–	1.5	1.5
Roller leveler	–	1.6	1.6
Roller path			
Continuous	–	1.5	1.5
Interval	–	2.0	2.0
Reversing mill	–	1.8	1.8
Cutter			
Continuous*	–	1.5	1.5
Crank type*	1.0	1.0	1.0
Continuous casting driving device	–	1.4	1.4
Rolling mill			
Reversing cogging mill	–	2.5	2.5
Reversing plate slab mill	–	2.5	2.5
Reversing wire mill	–	1.8	1.8
Reversing thin plate mill	–	2.0	2.0
Reversing middle thickness plate mill	–	1.8	1.8
Roll gap adjusting and driving device	0.9	1.0	–

Driven equipment	Daily operating time with load(hour) ≤ 2	> 2–10	> 10
Conveyingmachine			
Bucket conveyor	–	1.4	1.5
Winch	1.4	1.6	1.6
Hoist	–	1.5	1.8
Belt conveyor≤150kW	1.0	1.2	1.3
Belt conveyor≥150kW	1.1	1.3	1.4
Elevators for goods*	–	1.2	1.5
Elevators for customers*	–	1.5	1.8
Scraper conveyor	–	1.2	1.5
Automatic ladder	1.0	1.2	1.4
Rail traveling mechanism	–	1.5	–
Various frequency device	–	1.8	2.0
Reciprocating compressor	–	1.8	1.9
Hoisting mechanism**			
Rotary mechanism*		1.4	1.8
Pitching mechanism		1.1	1.4
Traveling mechanism		1.6	2.0
Lifting mechanism		1.1	1.4
Jibcrane		1.2	1.6
Cooling tower			
Cooling tower fan	–	–	2.0
Fan (Shaft flow and centrifugal type)	–	1.4	1.5
Food industry			
Sugar production			
Sugar–cane cutter*	–	–	1.7
Sugar crane mill			
Beet sugar production	–	–	1.7
Beet masher			
Squeeze machine,	–	–	1.2
mechanical refrigerator,			
cooking machine	–	–	1.4
Beet cleaner			
Beet chopper	–	–	1.5
Paper-making machinery			
Various kinds***	–	1.8	2.0
Pulper driving device	Supply goods according to customer requirements		
Centrifugal compressor	–	1.4	1.5
Rope way cable car			
Delivery ropeway	–	1.3	1.4
Cableway of shuttle system	–	1.6	1.8
T rod elevator	–	1.3	1.4
Continuous cableway	–	1.4	1.6
Cement industry			
Concrete blender	–	1.5	1.5
Crusher*	–	1.2	1.4
Rotary kiln	–	–	2.0
Tube mill	–	–	2.0
Powder concentrator	–	1.6	1.6
Roller press	–	–	2.0

Table 1	Driven machine factor			f1			
Driven equipment	Daily running time with load(hour)			Driven equipment	Daily running time with load(hour)		
	≤ 2	> 2–10	> 10		≤ 2	> 2–10	> 10
Wood industry				**Plastics industry**			
Barking machine				Miller, compound grinding			
Feed drive	1.25	1.25	1.50	Coating, film	1.25	1.25	1.25
Main drive	1.75	1.75	1.75	Conveying pipe, Pulling rod, thin type			
Conveyor				Pipe type, Pile drawer	1.25	1.25	1.50
Burner,repeating saw	1.25	1.25	1.50	Continuous mixer, Calender	1.50	1.50	1.50
Rotary tower,transit transport	1.50	1.50	1.50	Blow film, to plasticizing			
Main loading,heavy loading	1.75	1.75	2.00	Batch mixer	1.75	1.75	1.75
Main original wood,land base				**Rubber industry**			
Conveying chain	1.50	1.50	1.50	Continuous strong inner mixer,Mix roller,			
Floor	1.50	1.50	1.75	Batch feeding mixer (except for double sticks)	1.50	1.50	1.50
Green–wood				Refiner, calender			
Cutting Chain	1.50	1.50	1.75	Double roller clamp feeding and mixed miller	1.25	1.25	1.50
Saw transmission,traction	1.75	1.75	2.00	Batch strong inner mixer,			
Peeling barrel				Double stick single groove grain stick	1.75	1.75	1.75
Feed drive				Miller heater, double sticks			
Edging,wood trimmer	1.25	1.25	1.50	Batch feeding mixer			
Planer feed,assorting table,				Wave stick miller	2.00	2.00	2.00
Automatic incline lifting	1.75	1.75	1.75	**Generator and exciter**	1.00	1.00	1.25
Multi–shaft feed,raw wood				**Hammer crusher**	1.75	1.75	2.00
Transportation and rotation				**Sand miller**	1.25	1.25	1.50
Transportation							
Charging tray							
Plywood lathe drive	1.50	1.50	1.75				
Conveying chain,Lifting							

⚠ Note: Determine required power P2 of the driven equipment:

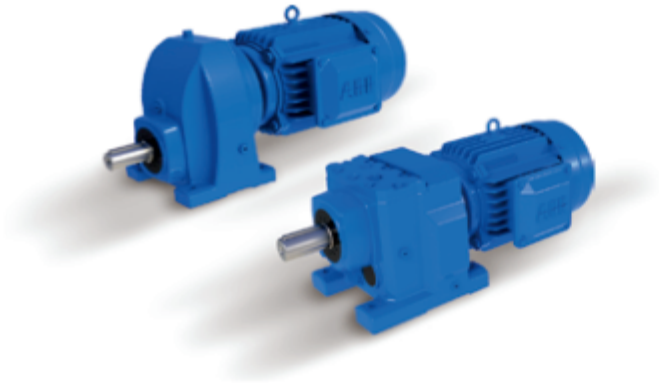
*)Determine rated power according to maximum torque.

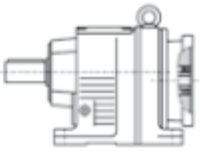
**)It's necessary to check thermal capacity.

Prime mover factor

Table 2 Factor for prime mover	f2
Electric motors,hydraulic motors,turbines	1.0
Piston engines 4–6 cylinders	1.25
Piston engines 1–3 cylinders	1.5

Table 3 Start factor				f3
f3 / f1xf2 / Starts per hour	1	1.25 –1.75	2– 2.75	⩾3
⩽5	1	1	1	1
6–25	1.2	1.12	1.06	1
26–60	1.3	1.2	1.12	1.06
61–180	1.5	1.3	1.2	1.12
>180	1.7	1.5	1.3	1.2

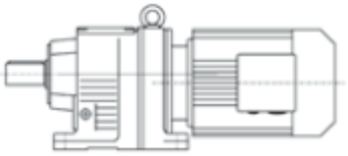




R (RF, RX, RXF) ...Y...

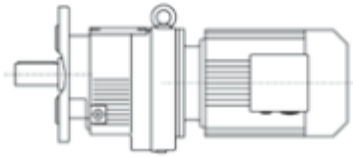
Customers provide the motor by themselves need connected flange

R series gear units are available in the following designs:



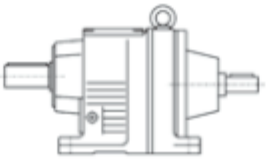
R...Y...

Foot-mounted helical gear units



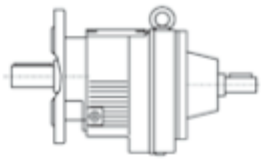
RF...Y...

Flange-mounted helical gear units



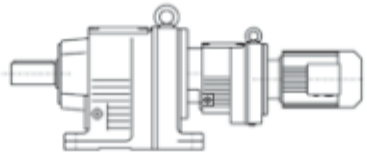
RS...

Foot-mounted helical gear units with solid shaft input



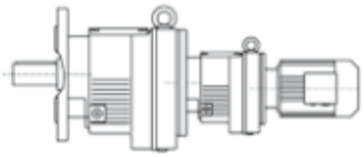
RFS...

Flange-mounted helical gear units with solid shaft input



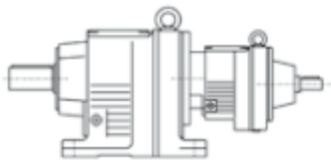
R...R...Y...

Foot-mounted combi-type helical gear units



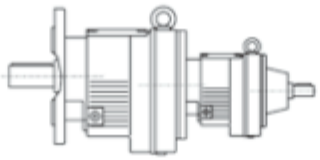
RF...R...Y...

Flange-mounted combi-type helical gear units



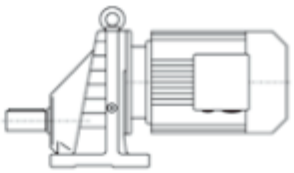
RS...R...

Foot-mounted combi-type helical gear units with solid shaft input



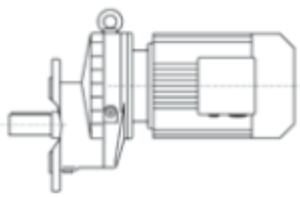
RFS...R...

Flange-mounted combi-type gear units with shaft input



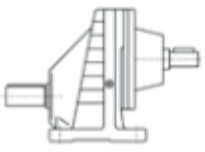
RX...Y...

Foot-mounted single-stage helical gear units



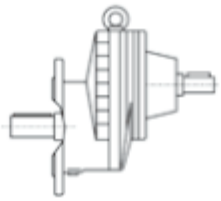
RXF...Y...

Flange-mounted single-stage helical gear units



RXS...

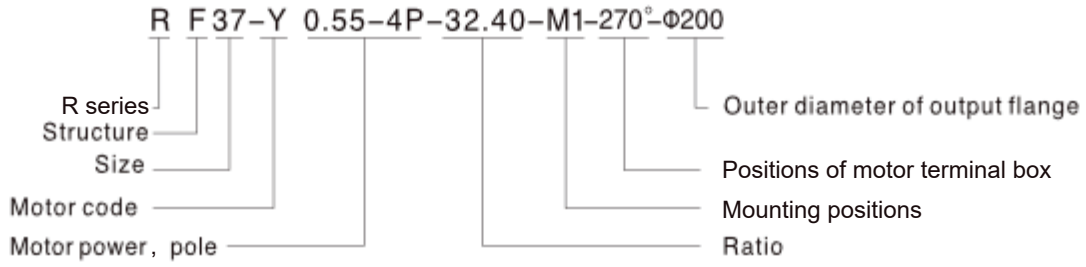
Foot-mounted single-stage helical gear units with solid shaft input



RXFS...

Flange-mounted singe-stage helical gear units with solid shaft input

Type Designations:



R series:
helical gear units

Structure:

Foot-mounted	(–)
Flange-mounted	F
Foot-mounted with shaft input	S
Flange-mounted with shaft input	FS

Size:
(see selection table)

Motor code:

Common motor	Y(Y2)
Flameproof motor	B
Direct current motor	Z
Brake motor	YEJ
Multi-speed motor	D
Variable frequency motor	YVP
Electromagnetic variable speed motor	YCT
Metallurgy hoisting motor	R
Transduction braking motor	YVPJ
Roller way	G

Motor power, pole:
See selection table

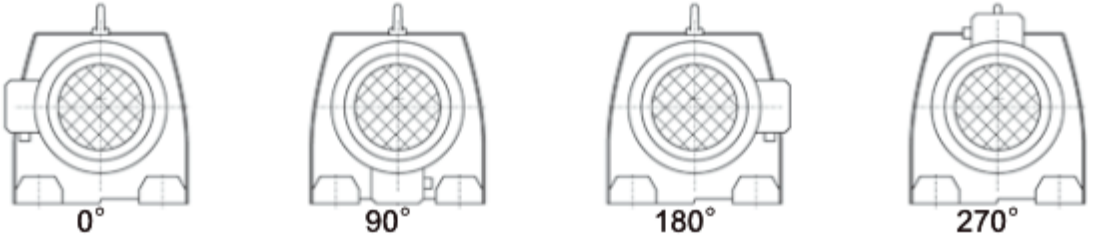
Ratio:
See selection table

Mounting positions:
M1, M2, M3, M4, M5, M5.(See page3)

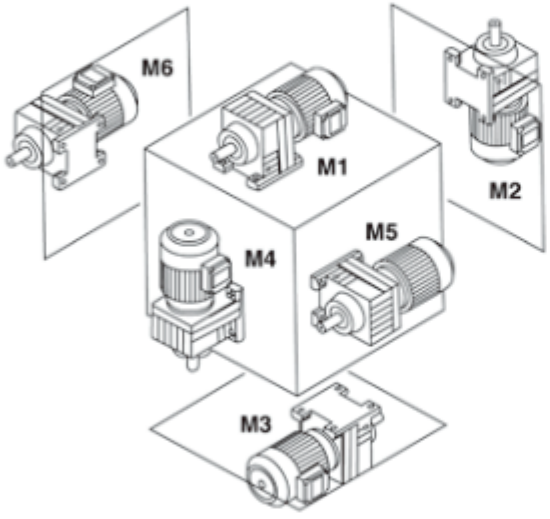
Positions of motor terminal box:
0°, 90°, 180°, 270°(See page2)

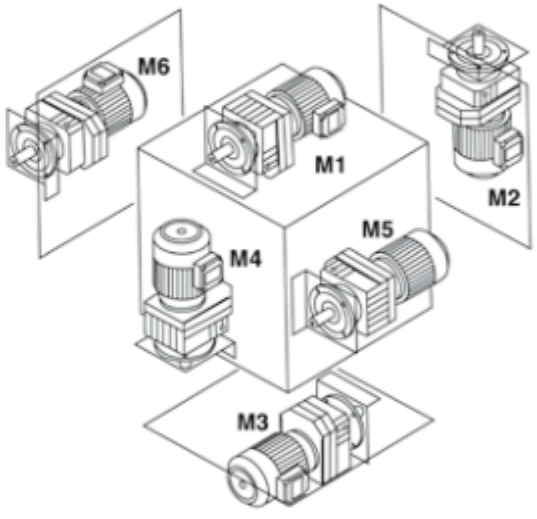
Outer diameter of output flange:
See the chart of mounting dimension (It will be omitted when foot mounting)

Positions of motor terminal box:



Mounting positions





Input power rating and permissible torque

Size	17	27	37	47	57	67	77	87	97	107	137	147	167
Structure	R RF												
Input power rating (kW)	0.18~0.75	0.18~3	0.18~3	0.18~5.5	0.18~7.5	0.18~7.5	0.18~11	0.55~22	0.55~30	2.2~45	5.5~55	11~90	11~160
Ratio	3.83~ 74.84	3.37~ 135.09	3.33~ 134.82	3.83~ 176.88	4.39~ 186.89	4.29~ 199.81	5.21~ 195.24	5.36~ 246.54	4.49~ 289.74	5.06~ 249.16	5.15~ 222.60	5.00~ 163.31	10.24~ 229.71
Permissible torque (N·m)	85	130	200	300	450	600	820	1550	3000	4300	8000	13000	18000

Size	37	57	67	77	87	97	107	127	157
Structure	RX RXF								
Input power rating (kW)	0.18~1.1	0.18~5.5	0.18~7.5	1.1~11	3~22	5.5~30	7.5~45	7.5~90	11~132
Ratio	1.62~4.43	1.3~5.5	1.4~6.07	1.42~8.00	1.39~8.65	1.42~8.23	1.44~6.63	1.51~6.2	1.57~6.2
Permissible torque (N·m)	20	70	135	215	400	600	830	1110	1680

Gear unit weight

Size	R17	R27	R37	R47	R57	R67	R77	R87	R97	R107	R137	R147	R167
Weight (kgs)	4	5.5	8.5	10	18	25	36	63	101	153	220	400	700
Gear unit type	RX37	RX57	RX67	RX77	RX87	RX97	RX107	RX127	RX157				
Weight (kgs)	5	8	14	23	39	70	100	150	250				

The marked weight is average value, it has no constraint force.

Oil

Size	Oil level(L)					
	M1 1)	M2 1)	M3	M4	M5	M6
R17	0.25	0.6	0.35	0.6	0.35	0.35
R27	0.25/0.4	0.7	0.4	0.7	0.4	0.4
R37	0.3/1	0.9	1	1.1	0.8	1
R47	0.7/1.5	1.6	1.5	1.7	1.5	1.5
R57	0.8/1.7	1.9	1.7	2.1	1.7	1.7
R67	1.1/2.3	2.6/3.5	2.8	3.2	1.8	2
R77	1.2/3	3.8/4.3	3.6	4.3	2.5	3.4
R87	2.3/6	6.7/8.4	7.2	7.7	6.3	6.5
R97	4.6/9.8	11.7/14	11.7	13.4	11.3	11.7
R107	6/13.7	16.3	16.9	19.2	13.2	15.9
R137	10/25	28	29.5	31.5	25	25
R147	15.4/40	46.5	48	52	39.5	41
R167	27/70	82	78	88	66	69

R

Size	Oil level(L)					
	M1 1)	M2 1)	M3	M4	M5	M6
RF17	0.25	0.6	0.35	0.6	0.35	0.35
RF27	0.25/0.4	0.7	0.4	0.7	0.4	0.4
RF37	0.4/1	0.9	1	1.1	0.8	1
RF47	0.75/1.5	1.6	1.5	1.7	1.5	1.5
RF57	0.8/1.7	1.8	1.7	2	1.7	1.7
RF67	1.2/2.5	2.7/3.6	2.7	3.1	1.9	2.1
RF77	1.2/2.6	3.8/4.1	3.3	4.1	2.4	3
RF87	2.4/6	6.8/7.9	7.1	7.7	6.3	6.4
RF97	5.1/10.2	11.9/14	11.2	14	11.2	11.8
RF107	6.3/14.9	15.9	17	19.2	13.1	15.9
RF137	9.5/25	27	29	32.5	25	25
RF147	16.4/42	47	48	52	42	42
RF167	26/70	82	78	88	65	71

Size	Oil level(L)					
	M1	M2	M3	M4	M5	M6
RX37/RXF37	0.45/0.4	0.6	1.1/0.9	1.1/0.9	0.7/0.6	0.7/0.6
RX57/RXF57	0.6/0.5	0.8	1.3/1.1	1.3/1.1	0.9/0.7	0.9/0.7
RX67/RXF67	0.8/0.7	0.8	1.7/1.5	1.9/1.7	1.1/1	1.1/1
RX77/RXF77	1.1/0.9	1.5	2.6/2.4	2.7/2.5	1.6	1.6
RX87/RXF87	1.7/1.6	2.5	4.8/4.9	4.8/4.7	2.9	2.9
RX97/RXF97	2.1	3.4/3.6	7.4/7.1	7	4.8	4.8
RX107/RXF107	3.9/3.1	5.6/5.9	11.6/11.2	11.9/10.5	7.7/7.2	7.7/7.2
RX127/RXF127	5.6/5.9	11.6/11.2	21.9/20.5	22.7/22.2	9.7/9.2	9.7/9.2
RX157/RXF157	11.6/11.2	21.9/20.5	31.3/30.5	32.7/32.2	13.2/12.7	13.2/12.7

Note: Combi-type gear units must be filled with the larger oil volume.

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.18kW					
0.16	9293	8443	1.31		
0.19	8042	7307	1.52		
0.22	7096	6447	1.72		
0.25	6128	5568	1.99	R 147R77	4
0.29	5300	4815	2.31	RF147R77	4
0.32	4760	4325	2.57		
0.38	4038	3669	3.03		
0.43	3553	3228	3.44		
0.16	9668	8784	0.8		
0.19	8232	7479	0.91		
0.22	7057	6412	1.07		
0.24	6421	5834	1.17		
0.28	5504	5001	1.37		
0.30	5183	4709	1.45	R 137R77	4
0.32	4803	4364	1.57	RF137R77	4
0.35	4323	3928	1.74		
0.40	3868	3514	1.94		
0.42	3674	3338	2.05		
0.47	3224	2929	2.33		
0.31	4881	4435	0.83		
0.36	4260	3870	0.95		
0.42	3634	3302	1.11		
0.46	3299	2997	1.23		
0.53	2885	2621	1.40		
0.62	2479	2252	1.63		
0.68	2246	2041	1.80	R 107R77	4
0.71	2169	1971	1.86	RF107R77	4
0.77	1995	1813	2.03		
0.88	1747	1587	2.31		
1.0	1529	1389	2.64		
1.1	1338	1216	3.02		
0.51	2996	2722	0.94		
0.52	2937	2668	0.96		
0.60	2544	2311	1.11		
0.62	2471	2245	1.14		
0.67	2287	2078	1.23		
0.69	2219	2016	1.27		
0.80	1907	1733	1.48	R 97R57	4
0.86	1786	1623	1.58	RF97R57	4
0.97	1578	1434	1.79		
1.2	1328	1207	2.12		
1.3	1193	1084	2.36		
1.5	1028	934	2.74		
1.6	966	878	2.92		
1.8	831	755	3.39		
0.79	1912	1737	0.8		
0.80	1907	1733	0.85		
0.91	1677	1524	0.87		
0.93	1639	1489	0.89		
1.0	1535	1395	0.95		
1.1	1356	1232	1.07	R 87R57	4
1.2	1260	1145	1.16	RF87R57	4
1.3	1141	1037	1.28		
1.5	1025	931	1.42		
1.6	972	883	1.50		
1.7	883	802	1.65		
1.8	852	774	1.71		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.18kW					
1.6	944	858	0.82		
1.7	904	821	0.85		
1.8	833	757	0.93		
1.9	803	730	0.96		
2.1	739	671	1.04		
2.2	711	646	1.08	R 77R37	4
2.4	628	571	1.23	RF77R37	4
2.5	602	547	1.28		
2.9	525	477	1.47		
3.3	469	426	1.64		
3.8	402	365	1.92		
4.5	341	310	2.26		
2.4	628	571	0.90		
2.5	617	561	0.91		
2.9	532	483	1.06		
3.2	482	438	1.17	R 67R37	4
3.6	427	388	1.32	RF67R37	4
4.1	370	336	1.53		
4.8	316	287	1.79		
5.5	281	255	2.01		
3.0	518	471	0.82		
3.1	488	443	0.87		
3.4	451	410	0.94		
3.9	395	359	1.07		
4.3	357	324	1.19		
4.4	351	319	1.20		
4.8	319	290	1.33	R 57R37	4
5.2	294	267	1.44	RF57R37	4
5.3	288	262	1.47		
5.7	271	246	1.56		
5.8	265	241	1.59		
6.3	242	220	1.75		
6.5	237	215	1.79		
7.4	207	188	2.04		
8.7	175	159	2.42		
4.6	331	301	0.85		
5.5	281	255	1.00	R 47R37	4
6.1	251	228	1.12	RF47R37	4
7.1	215	195	1.31		
6.2	249	226	0.8		
6.9	222	202	0.85		
7.0	219	199	0.86		
7.8	197	179	0.95	R 37R17	4
8.9	173	157	1.09	RF37R17	4
9.1	172	156	1.11		
9.3	165	150	1.14		
9.9	155	141	0.8		
10	149	135	0.82		
11	136	124	0.90	R 27R17	4
12	130	118	0.94	RF27R17	4
13	121	110	1.01		
14	114	104	1.07		
15	103	94	1.18		
4.4	371	195.24	2.1		
5.1	317	166.59	2.4		
5.8	277	145.67	2.8	R 77	6
6.1	263	138.39	2.9	RF77	6
7.0	231	121.42	3.3		

R

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.18kW					
7.1	227	195.24	3.4		
8.3	194	166.59	4.0	R 77	4
9.5	169	145.67	4.6	RF77	4
10	161	138.39	4.8		
4.3	380	199.81	1.48		
4.6	350	184.07	1.61		
5.4	301	158.14	1.88		
6.2	262	137.67	2.2		
6.6	245	128.97	2.3	R 67	6
7.5	217	113.94	2.6	RF67	6
8.0	201	105.83	2.8		
8.9	182	95.91	3.1		
9.9	164	86.11	3.4		
11	141	74.17	4.0		
12	133	69.75	4.3		
7.0	232	199.81	2.4		
7.6	214	184.07	2.6		
8.8	184	158.14	3.1	R 67	4
10	160	137.67	3.5	RF67	4
11	150	128.97	3.8		
12	132	113.94	4.3		
13	123	105.83	4.6		
4.5	355	186.89	1.19		
4.9	327	172.17	1.29	R 57	6
5.7	281	147.92	1.50	RF57	6
6.6	245	128.77	1.73		
7.0	229	120.63	1.84		
7.4	217	186.89	1.95		
8.1	200	172.17	2.1		
9.4	172	147.92	2.5	R 57	4
11	150	128.77	2.8	RF57	4
12	140	120.63	3.0		
13	124	106.58	3.4		
14	115	98.99	3.7		
15	104	89.71	4.1		
7.9	206	176.88	1.37		
8.5	189	162.94	1.49		
9.9	163	139.99	1.73		
11	142	121.87	1.99	R 47	4
12	133	114.17	2.1	RF47	4
14	117	100.86	2.4		
15	109	93.68	2.6		
16	99	84.90	2.9		
18	89	76.23	3.2		
6.9	235	123.66	0.80		
8.1	200	105.28	0.94	R 37	6
9.4	173	90.77	1.09	RF37	6
10	161	84.61	1.17		
10	157	134.82	1.20		
11	144	123.66	1.31		
13	122	105.28	1.54		
15	106	90.77	1.78		
16	98	84.61	1.91	R 37	4
19	86	73.96	2.2	RF37	4
20	81	69.33	2.3		
23	71	61.18	2.6		
25	65	55.76	2.9		
29	56	48.08	3.1		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.18kW					
11	144	123.91	0.85		
13	123	105.49	1.00		
15	106	90.96	1.16		
16	99	84.78	1.24		
19	86	74.11	1.42		
20	81	69.47	1.51		
23	71	61.30	1.71		
25	65	55.87	1.88		
29	56	48.17	2.2		
31	52	44.90	2.3	R 27	4
35	46	39.25	2.7	RF27	4
38	44	36.79	2.8		
43	39	32.47	3.2		
48	35	28.78	3.5		
49	34	28.37	3.6		
53	31	26.09	3.9		
57	29	24.47	4.2		
62	26	22.32	4.6		
72	23	19.35	5.3		
77	21	18.08	5.7		
89	19	15.63	6.6		
105	16	13.28	7.8		
37	45	23.13	1.78	R 17	6
40	41	21.22	1.94	RF17	6
47	35	18.06	2.28		
19	87	74.84	0.92		
22	75	64.52	1.07		
23	70	60.14	1.14		
26	61	52.57	1.31		
28	57	49.28	1.39		
32	51	43.49	1.58		
34	47	40.49	1.70		
39	41	35.40	1.94		
42	39	33.18	2.07		
47	34	29.28	2.3		
54	30	25.96	2.6		
60	27	23.13	2.9		
63	26	22.06	3.1		
66	25	21.22	3.2		
77	21	18.06	3.7		
89	18	15.57	4.3	R 17	4
96	17	14.52	4.6	RF17	4
110	15	12.69	5.3		
117	14	11.89	5.7		
132	12	10.5	5.9		
149	11	9.31	6.1		
176	10	7.91	6.2		
184	9	7.55	6.5		
197	8	7.04	7.0		
226	7.5	6.15	7.2		
241	7	5.76	7.3		
273	6	5.09	7.9		
308	5	4.51	8.4		
363	4.5	3.83	10		
140	12	6.07	3.4		
164	10	5.18	6.9	RX 67	6
188	9.0	4.53	8.6	RXF67	6
198	8.5	4.30	8.8		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.18kW					
229	7.4	6.07	5.5		
268	6.3	5.18	11		
307	5.5	4.53	13		
323	5.2	4.30	14		
369	4.6	3.77	18	RX 67	4
434	3.9	3.20	24	RXF67	4
481	3.5	2.89	28		
547	3.1	2.54	36		
579	2.9	2.40	40		
681	2.5	2.04	51		
155	11	5.50	3.36		
168	10	5.07	3.37	RX 57	6
195	8.6	4.35	7.4	RXF57	6
224	7.5	3.79	8.5		
253	6.7	5.50	5.50		
274	6.1	5.07	5.51		
320	5.3	4.35	12		
367	4.6	3.79	14		
392	4.3	3.55	15		
443	3.8	3.14	16	RX 57	4
478	3.5	2.91	18	RXF57	4
527	3.2	2.64	20		
586	2.9	2.37	23		
681	2.5	2.04	26		
724	2.3	1.92	28		
842	2.0	1.65	32		
426	4	3.26	3.80	RX 37	4
527	3	2.64	4.69	RXF37	4
0.25kW					
0.14	14894	9743	0.82		
0.16	12907	8443	0.95		
0.19	11170	7307	1.09		
0.22	9855	6447	1.24	R 147R77	4
0.25	8512	5568	1.44	RF147R77	4
0.29	7361	4815	1.66		
0.32	6612	4325	1.85		
0.38	5609	3669	2.18		
0.43	4935	3228	2.48		
0.49	4331	2833	2.82		
0.24	8918	5834	0.84		
0.28	7645	5001	0.98		
0.30	7199	4709	1.04		
0.32	6671	4364	1.13		
0.35	6142	4018	1.22		
0.37	6005	3928	1.25	R 137R77	4
0.40	5372	3514	1.40	RF137R77	4
0.42	5103	3338	1.47		
0.47	4478	2929	1.68		
0.52	4063	2658	1.85		
0.58	3687	2414	2.0		
0.67	3169	2073	2.4		
0.76	2811	1839	2.7		
0.99	2136	1397	3.5		
1.1	1874	1226	4.0		
0.46	4609	3015	0.88		
0.71	3013	1971	1.34		
0.77	2772	1813	1.46		
0.88	2426	1587	1.67	R 107R77	4
1.0	2123	1389	1.90	RF107R77	4
1.1	1859	1216	2.2		
1.5	1417	927	2.9		
1.7	1241	812	3.3		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.25kW					
0.69	3082	2016	0.92		
0.76	2787	1823	1.01		
0.80	2649	1733	1.06		
0.86	2481	1623	1.14		
0.88	2420	1583	1.17	R 97R57	4
1.0	2134	1396	1.32	RF97R57	4
1.1	1877	1228	1.50		
1.3	1633	1068	1.73		
1.5	1432	937	1.97		
1.7	1260	824	2.2		
1.9	1127	737	2.5		
2.2	965	631	2.9		
1.2	1750	1145	0.83		
1.3	1585	1037	0.92		
1.5	1423	931	1.02		
1.6	1350	883	1.08		
1.7	1226	802	1.19		
1.8	1183	774	1.23	R 87R57	4
2.0	1044	683	1.40	RF87R57	4
2.3	916	599	1.59		
2.6	803	525	1.82		
3.1	694	454	2.1		
5.2	408	267	3.6		
2.4	873	571	0.88		
2.5	836	547	0.92		
2.9	729	477	1.06		
3.3	651	426	1.18	R 77R37	4
3.8	556	364	1.39	RF77R37	4
4.5	477	312	1.62		
4.6	474	310	1.63		
5.6	379	248	2.03		
6.3	335	219	2.3		
3.6	593	388	0.95		
3.9	549	359	1.03		
4.1	514	336	1.10		
4.5	474	310	1.19		
4.8	439	287	1.29		
5.3	404	264	1.40		
5.5	390	255	1.45	R 67R37	4
5.9	359	235	1.57	RF67R37	4
6.1	350	229	1.61		
6.9	307	201	1.84		
7.1	298	195	1.89		
7.7	277	181	2.0		
8.1	263	172	2.15		
9.0	235	154	2.40		
4.3	495	324	0.85		
4.4	488	319	0.87		
4.8	443	290	0.95		
5.2	408	267	1.04		
5.3	401	262	1.06		
5.7	376	246	1.12	R 57R37	4
5.8	368	241	1.15	RF57R37	4
6.3	336	220	1.26		
6.5	329	215	1.29		
7.6	280	183	1.51		
8.6	246	161	1.72		
10	211	138	2.0		
6.1	349	228	0.81		
7.1	298	195	0.95	R 47R37	4
7.6	278	182	1.01	RF47R37	4
9.0	235	154	1.20		

R

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.25kW					
8.9	238	156	0.79		
9.3	229	150	0.82		
10	206	135	0.91		
11	194	127	0.97	R 37R17	4
12	168	110	1.12	RF37R17	4
13	159	104	1.18		
14	144	94	1.31		
15	138	90	1.37		
2.2	1029	289.60	2.7		
2.5	913	256.89	3.1	R 97	8
2.7	856	240.83	3.3	RF97	8
3.0	767	215.94	3.7		
2.6	876	246.54	1.66		
3.0	769	216.54	1.89	R 87	8
3.1	731	205.71	1.99	RF87	8
3.5	646	181.77	2.3		
3.9	592	166.59	1.30		
4.4	518	145.67	1.49	R 77	8
4.7	492	138.39	1.57	RF77	8
5.3	431	121.42	1.79		
4.4	526	195.24	1.46	R 77	6
5.1	449	166.59	1.72	RF77	6
5.8	393	145.67	1.96		
7.1	322	195.24	2.4		
8.3	275	166.59	2.8	R 77	4
9.5	240	145.67	3.2	RF77	4
10	228	138.39	3.4		
11	200	121.42	3.8		
4.1	562	158.14	1.00		
4.7	489	137.67	1.15	R 67	8
5.0	458	128.97	1.23	RF67	8
5.7	405	113.94	1.39		
4.3	539	199.81	1.05		
4.6	496	184.07	1.14		
5.4	426	158.14	1.32	R 67	6
6.2	371	137.67	1.52	RF67	6
6.6	348	128.97	1.62		
7.5	307	113.94	1.84		
8.0	285	105.83	1.98		
7.0	329	199.81	1.71		
7.6	304	184.07	1.86		
8.8	261	158.14	2.2		
10	227	137.67	2.5	R 67	4
11	213	128.97	2.7	RF67	4
12	188	113.94	3.0		
13	175	105.83	3.2		
14	158	95.91	3.6		
16	142	86.11	4.0		
4.5	504	186.89	0.84		
4.9	464	172.17	0.91		
5.7	399	147.92	1.06	R 57	6
6.6	347	128.77	1.22	RF57	6
7.0	325	120.63	1.30		
8.0	287	106.58	1.47		
8.6	267	98.99	1.58		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.25kW					
7.4	308	186.89	1.37		
8.1	284	172.17	1.49		
9.4	244	147.92	1.73		
11	212	128.77	1.99	R 57	4
12	199	120.63	2.1	RF57	4
13	176	106.58	2.4		
14	163	98.99	2.6		
15	148	89.71	2.9		
17	133	80.55	3.2		
20	114	69.23	3.7		
7.9	292	176.88	0.97		
8.5	269	162.94	1.05		
9.9	231	139.99	1.22		
11	201	121.87	1.40		
12	188	114.17	1.50		
14	166	100.86	1.70	R 47	4
15	154	93.68	1.83	RF47	4
16	140	84.90	2.0		
18	126	76.23	2.2		
20	113	68.54	2.5		
22	106	64.21	2.7		
25	94	56.73	3.0		
26	87	52.69	3.2		
29	79	47.75	3.6		
10	222	134.82	0.85		
11	204	123.66	0.92		
13	175	105.28	1.08		
15	150	90.77	1.26		
16	140	84.61	1.35		
19	122	73.96	1.54	R 37	4
20	114	69.33	1.64	RF37	4
23	101	61.18	1.86		
25	92	55.76	2.0		
29	79	48.08	2.4		
31	74	44.81	2.5		
35	65	39.17	2.9		
38	61	36.72	3.1		
43	53	32.40	3.5		
16	140	84.78	0.87		
19	122	74.11	1.00		
20	115	69.47	1.07		
23	101	61.30	1.21		
25	92	55.87	1.33		
29	79	48.17	1.54		
31	74	44.90	1.65		
35	65	39.25	1.89		
38	61	36.79	2.0		
43	54	32.47	2.3		
48	48	28.78	2.5		
49	47	28.37	2.6		
53	43	26.09	2.8		
57	40	24.47	3.0	R 27	4
62	37	22.32	3.3	RF27	4
72	32	19.35	3.8		
77	30	18.08	4.1		
89	26	15.63	4.7		
105	22	13.28	5.6		
117	20	11.86	6.2		
137	17	10.13	6.9		
148	16	9.41	7.4		
170	14	8.16	8.1		
182	13	7.63	8.4		
211	11	6.59	9.2		
248	9.0	5.60	10		
278	8.2	5.00	11		
326	7.0	4.27	12		
348	7.0	4.00	12		
412	6.0	3.37	13		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
0.25kW					
26	87	52.57	0.92		
28	81	49.28	0.98		
32	72	43.49	1.11		
34	67	40.49	1.20		
39	58	35.40	1.37		
42	55	33.18	1.46		
47	48	29.28	1.65		
54	43	25.96	1.87		
60	38	23.13	2.1		
63	36	22.06	2.2		
66	35	21.22	2.3		
77	30	18.06	2.7	R 17	4
89	26	15.57	3.1	RF17	4
96	24	14.52	3.3		
110	21	12.69	3.8		
117	20	11.89	4.1		
132	17	10.5	4.2		
149	15	9.31	4.4		
176	13	7.91	4.5		
184	12	7.55	4.7		
197	11	7.04	5.0		
226	10	6.15	5.2		
241	9	5.76	5.3		
273	8	5.09	5.7		
308	7	4.51	6.1		
363	6	3.83	6.7		
140	16	6.07	2.5		
164	14	5.18	4.9	RX 67	6
188	13	4.53	6.2	RXF67	6
198	12	4.30	6.4		
229	10	6.07	4.0		
268	9	5.18	8.1		
307	8	4.53	10		
323	7	4.30	10		
369	6	3.77	13	RX 67	4
434	5.5	3.20	17	RXF67	4
481	5	2.89	20		
547	4.5	2.54	26		
579	4	2.40	29		
681	3	2.04	37		
155	15	5.50	2.4		
168	14	5.07	2.4	RX 57	6
195	12	4.35	5.3	RXF57	6
224	10	3.79	6.2		
253	9.3	5.50	4.0		
274	8.5	5.07	4.0		
320	7.3	4.35	9.0		
367	6.4	3.79	10		
392	6.0	3.55	11		
443	5.3	3.14	12	RX 57	4
478	4.9	2.91	13	RXF57	4
527	4.4	2.64	15		
586	4.0	2.37	16		
681	3.4	2.04	19		
724	3.2	1.92	20		
842	2.8	1.65	23		
370	6	3.76	2.37		
426	5.5	3.26	2.73		
456	5	3.05	2.92		
527	4.5	2.64	3.38	RX 37	4
621	4	2.24	3.98	RXF37	4
695	3.5	2.00	4.46		
813	3	1.71	5.21		
869	2.5	1.60	5.57		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
0.37kW					
0.19	16532	7307	0.80		
0.22	14586	6447	0.84		
0.25	12597	5568	0.97		
0.29	10894	4815	1.12	R 147R77	4
0.32	9785	4325	1.25	RF147R77	4
0.38	8301	3669	1.47		
0.43	7303	3228	1.67		
0.49	6410	2833	1.91		
0.32	9873	4364	0.76		
0.35	8887	3928	0.85		
0.40	7950	3514	0.95		
0.42	7552	3338	1.00		
0.47	6627	2929	1.13		
0.52	6014	2658	1.25		
0.56	5620	2484	1.34	R 137R77	4
0.58	5457	2412	1.38	RF137R77	4
0.62	5072	2242	1.48		
0.67	4690	2073	1.60		
0.76	4161	1839	1.81		
0.99	3161	1397	2.4		
1.1	2774	1226	2.7		
1.3	2466	1090	3.0		
1.5	2152	951	3.5		
0.68	4618	2041	0.88		
0.71	4459	1971	0.91		
0.77	4102	1813	0.99		
0.83	3785	1673	1.07		
0.88	3591	1587	1.13	R 107R77	4
0.91	3464	1531	1.17	RF107R77	4
1.0	3145	1390	1.29		
1.1	2751	1216	1.47		
1.2	2701	1194	1.50		
1.3	2360	1043	1.71		
1.5	2097	927	1.93		
1.7	1837	812	2.2		
0.97	3244	1434	0.87		
1.0	3158	1396	0.89		
1.1	2778	1228	1.02		
1.2	2731	1207	1.03		
1.3	2453	1084	1.15		
1.4	2416	1068	1.17	R 97R57	4
1.5	2120	937	1.33	RF97R57	4
1.7	1864	824	1.51		
1.9	1667	737	1.69		
2.2	1428	631	1.98		
3.2	973	430	2.9		
3.7	857	379	3.3		
4.1	760	336	3.7		
1.7	1814	802	0.80		
1.8	1751	774	0.83		
1.9	1706	754	0.85		
2.0	1545	683	0.94		
2.1	1468	649	0.99		
2.3	1355	599	1.08		
2.5	1217	538	1.20	R 87R57	4
2.6	1188	525	1.23	RF87R57	4
2.9	1068	472	1.36		
3.1	1027	454	1.42		
3.5	905	400	1.61		
3.9	817	361	1.78		
5.2	604	267	2.4		
5.9	532	235	2.7		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.37kW					
3.3	964	426	0.80		
3.8	824	364	0.94		
4.3	740	327	1.04		
4.5	701	310	1.10	R 77R37	4
5.6	561	248	1.37	RF77R37	4
6.3	495	219	1.56		
7.4	425	188	1.81		
8.6	367	162	2.1		
9.8	321	142	2.4		
4.8	649	287	0.87		
5.5	577	255	0.98	R 67R37	4
6.1	518	229	1.09	RF67R37	4
7.1	441	195	1.28		
2.5	1323	256.89	2.1		
2.7	1240	240.83	2.3	R 97	8
3.0	1112	215.94	2.5	RF97	8
3.5	958	185.97	2.9		
2.9	1132	289.60	2.5		
3.3	1004	256.89	2.8	R 97	6
3.5	941	240.83	3.0	RF97	6
3.9	844	215.94	3.3		
3.0	1115	216.54	1.31	R 87	8
3.1	1059	205.71	1.38	RF87	8
3.5	936	181.77	1.6		
3.4	963	246.54	1.51		
3.9	846	216.54	1.72	R 87	6
4.1	804	205.71	1.81	RF87	6
4.7	710	181.77	2.1		
5.5	607	155.34	2.4		
6.0	556	142.41	2.6		
4.4	750	145.67	1.03	R 77	8
4.7	713	138.39	1.08	RF77	8
5.3	625	121.42	1.23		
5.1	651	166.59	1.18	R 77	6
5.8	569	145.67	1.35	RF77	6
6.1	541	138.39	1.43		
7.1	467	195.24	1.65		
8.3	398	166.59	1.94		
9.5	348	145.67	2.2	R 77	4
10	331	138.39	2.3	RF77	4
11	290	121.42	2.7		
13	246	102.99	3.1		
15	222	92.97	3.47		
5.4	618	158.14	0.91		
6.2	538	137.67	1.05	R 67	6
6.6	504	128.97	1.12	RF67	6
7.5	445	113.94	1.27		
7.0	477	199.81	1.18		
7.6	440	184.07	1.28		
8.8	378	158.14	1.49		
10	329	137.67	1.71		
11	308	128.97	1.83	R 67	4
12	272	113.94	2.1	RF67	4
13	253	105.83	2.2		
14	229	95.91	2.5		
16	206	86.11	2.7		
19	177	74.17	3.2		
20	167	69.75	3.4		
23	146	61.26	3.9		
24	136	56.89	4.1		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.37kW					
6.6	503	128.77	0.84		
7.0	471	120.63	0.90	R 57	6
8.0	416	106.58	1.02	RF57	6
8.6	387	98.99	1.09		
7.4	447	186.89	0.95		
8.1	411	172.17	1.03		
9.4	353	147.92	1.20		
11	308	128.77	1.37		
12	288	120.63	1.47		
13	255	106.58	1.66	R 57	4
14	237	98.99	1.79	RF57	4
15	214	89.71	1.97		
17	192	80.55	2.2		
20	165	69.23	2.6		
21	155	64.85	2.7		
24	137	57.29	3.1		
26	127	53.22	3.3		
29	115	48.23	3.7		
9.9	335	139.99	0.84		
11	291	121.87	0.97		
12	273	114.17	1.03		
14	241	100.86	1.17		
15	224	93.68	1.26		
16	203	84.90	1.39		
18	182	76.23	1.55		
20	164	68.54	1.72		
22	153	64.21	1.84		
25	136	56.73	2.1	R 47	4
26	126	52.69	2.2	RF47	4
29	114	47.75	2.5		
32	102	42.87	2.6		
38	88	36.93	2.7		
40	83	34.73	2.8		
41	81	33.79	3.2		
45	74	31.12	3.4		
52	64	26.74	4.4		
60	56	23.28	5.1		
64	52	21.81	5.4		
15	217	90.77	0.87		
16	202	84.61	0.93		
19	177	73.96	1.06		
20	166	69.33	1.13		
23	146	61.18	1.29		
25	133	55.76	1.41		
29	115	48.08	1.64		
31	107	44.81	1.76		
35	94	39.17	2.0		
38	88	36.72	2.1		
43	77	32.40	2.4		
48	69	28.73	2.7		
49	68	28.32	2.8	R 37	4
53	62	26.03	2.9	RF37	4
57	58	24.42	3.2		
62	53	22.27	3.5		
72	46	19.31	4.1		
77	43	18.05	4.4		
89	38	15.60	4.9		
105	32	13.25	5.5		
117	29	11.83	6.0		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.37kW					
23	146	61.30	0.83		
25	134	55.87	0.92		
29	115	48.17	1.06		
31	107	44.90	1.14		
35	94	39.25	1.30		
38	88	36.79	1.39		
43	78	32.47	1.57	R 27	4
48	69	28.78	1.78	RF27	4
49	68	28.37	1.80		
53	62	26.09	1.96		
57	58	24.47	2.1		
62	53	22.32	2.3		
72	46	19.35	2.6		
77	43	18.08	2.8		
89	37	15.63	3.3		
105	32	13.28	3.9		
39	85	35.40	0.94		
42	79	33.18	1.01		
47	70	29.28	1.14		
54	62	25.96	1.29		
60	55	23.13	1.45		
63	53	22.06	1.52		
66	51	21.22	1.58		
77	43	18.06	1.85		
89	37	15.57	2.1		
96	35	14.52	2.3		
110	30	12.69	2.6	R 17	4
117	28	11.89	2.8	RF17	4
132	25	10.50	2.9		
149	22	9.31	3.0		
176	19	7.91	3.1		
184	18	7.55	3.3		
197	17	7.04	3.4		
226	15	6.15	3.5		
241	14	5.76	3.6		
273	12	5.09	3.9		
308	11	4.51	4.2		
363	9	3.83	4.6		
164	21	5.18	3.3		
188	19	4.53	4.2	RX 67	6
198	18	4.30	4.3	RXF67	6
225	15	3.77	5.3		
229	15	6.07	2.7		
268	13	5.18	5.5		
307	12	4.53	6.8		
323	11	4.30	7.0		
369	9	3.77	8.7	RX 67	4
434	8	3.20	12	RXF67	4
481	7	2.89	14		
547	6.3	2.54	18		
579	6.0	2.40	19		
681	5.1	2.04	25		
195	17.7	4.35	3.6		
224	15.4	3.79	4.2	RX 57	6
239	14.5	3.55	4.5	RXF57	6

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.37kW					
253	13.7	5.50	2.7		
274	12.6	5.07	2.7		
320	10.8	4.35	5.9		
367	9.4	3.79	6.9		
392	8.8	3.55	7.3		
443	7.8	3.14	7.8	RX 57	4
478	7.2	2.91	8.7	RXF57	4
527	6.6	2.64	9.9		
586	5.9	2.37	11		
681	5.1	2.04	13		
724	4.8	1.92	14		
842	4.1	1.65	16		
426	8.1	3.26	1.85		
456	7.6	3.05	1.97		
527	6.6	2.64	2.28		
621	5.6	2.24	2.69	RX 37	4
695	5.0	2.00	3.01	RXF37	4
813	4.3	1.71	3.52		
869	4.0	1.60	3.76		
0.55kW					
0.23	20411	6069	0.83		
0.26	18157	5399	0.93	R 167R97	4
0.30	15837	4709	1.07	RF167R97	4
0.33	14065	4182	1.20		
0.29	16193	4815	0.75		
0.32	14545	4325	0.84		
0.38	12339	3669	0.99		
0.43	10856	3228	1.13		
0.49	9528	2833	1.28		
0.54	8593	2555	1.42	R 147R77	4
0.63	7436	2211	1.64	RF147R77	4
0.71	6561	1951	1.86		
0.82	5734	1705	2.1		
0.90	5166	1536	2.4		
1.05	4470	1329	2.7		
1.19	3921	1166	3.1		
0.52	8939	2658	0.84		
0.56	8354	2484	0.9		
0.58	8112	2412	0.93		
0.67	6972	2073	1.08		
0.76	6185	1839	1.22	R 137R77	4
0.87	5374	1598	1.40	RF137R77	4
0.99	4698	1397	1.60		
1.1	4123	1226	1.82		
1.3	3666	1090	2.1		
1.5	3198	951	2.4		
1.7	2795	831	2.7		
1.0	4675	1390	0.86		
1.1	4090	1216	0.99		
1.2	4016	1194	1.01		
1.3	3686	1095	1.10		
1.4	3508	1043	1.15		
1.5	3118	927	1.30	R 107R77	4
1.6	2986	888	1.35	RF107R77	4
1.7	2731	812	1.48		
1.8	2647	787	1.53		
2.0	2327	692	1.74		
2.3	2035	605	1.99		

R

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.55kW					
1.5	3151	937	0.89		
1.7	2771	824	1.02		
1.9	2479	737	1.14		
2.2	2122	631	1.33		
2.5	1883	560	1.50	R 97R57	4
2.9	1628	484	1.73	RF97R57	4
3.2	1446	430	1.95		
3.7	1275	379	2.2		
4.1	1130	336	2.5		
4.7	995	296	2.8		
5.6	837	249	3.4		
2.6	1766	525	0.83		
2.9	1587	472	0.92		
3.1	1527	454	0.95		
3.5	1345	400	1.08	R 87R57	4
3.6	1332	396	1.09	RF87R57	4
3.9	1214	361	1.20		
4.0	1180	351	1.23		
4.6	1026	305	1.42		
5.1	925	275	0.83		
5.9	794	236	0.97	R 77R37	4
6.3	743	221	1.04	RF77R37	4
7.8	599	178	1.29		
2.6	1893	256.89	1.50		
2.8	1775	240.83	1.59	R 97	8
3.1	1591	215.94	1.77	RF97	8
2.9	1682	289.60	1.68		
3.3	1492	256.89	1.90	R 97	6
3.5	1399	240.83	2.0	RF97	6
3.9	1254	215.94	2.2		
4.8	1029	289.60	2.7		
5.4	912	256.89	3.1	R 97	4
5.8	855	240.83	3.3	RF97	4
6.4	767	215.94	3.7		
3.6	1375	246.54	1.06		
4.1	1208	216.54	1.21	R 87	6
4.3	1148	205.71	1.27	RF87	6
4.9	1014	181.77	1.44		
5.7	867	155.34	1.68		
5.6	876	246.54	1.66		
6.4	769	216.54	1.89		
6.8	731	205.71	2.0		
7.6	646	181.77	2.3	R 87	4
8.9	552	155.34	2.6	RF87	4
9.8	506	142.41	2.9		
11	444	124.97	3.3		
12	421	118.43	3.5		
13	368	103.65	4.0		
8.3	592	166.59	1.30		
9.5	517	145.67	1.49		
10	492	138.39	1.57		
11	431	121.42	1.79		
13	366	102.99	2.1	R 77	4
15	330	92.97	2.3	RF77	4
17	291	81.80	2.7		
18	274	77.24	2.8		
21	234	65.77	3.3		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.55kW					
8.8	562	158.14	1.00		
10	489	137.67	1.15		
11	458	128.97	1.23		
12	405	113.94	1.39		
13	376	105.83	1.50	R 67	4
14	341	95.91	1.66	RF67	4
16	306	86.11	1.84		
19	263	74.17	2.1		
20	248	69.75	2.3		
23	218	61.26	2.6		
24	202	56.89	2.8		
12	428	120.63	0.99		
13	379	106.58	1.12		
14	352	98.99	1.20		
15	319	89.71	1.33		
17	286	80.55	1.48		
20	246	69.23	1.72		
21	230	64.85	1.84	R 57	4
24	203	57.29	2.1	RF57	4
26	189	53.22	2.2		
29	171	48.23	2.5		
32	154	43.30	2.8		
37	132	37.30	3.2		
40	125	35.07	3.4		
53	93	26.31	4.5		
56	89	24.99	4.8		
63	78	21.93	5.4		
75	66	18.60	6.4		
15	333	93.68	0.85		
16	302	84.90	0.94		
18	271	76.23	1.04		
20	243	68.54	1.16		
22	228	64.21	1.24		
25	202	56.73	1.40		
26	187	52.69	1.51	R 47	4
29	170	47.75	1.66	RF47	4
32	152	42.87	1.85		
38	131	36.93	2.1		
40	123	34.73	2.3		
47	106	29.88	2.7		
52	95	26.74	3.0		
60	83	23.28	3.4		
64	77	21.81	3.6		
23	217	61.18	0.87		
25	198	55.76	0.95		
29	171	48.08	1.10		
31	159	44.81	1.18		
35	139	39.17	1.35		
38	130	36.72	1.44		
43	115	32.40	1.63	R 37	4
48	102	28.73	1.84	RF37	4
57	87	24.42	2.2		
62	79	22.27	2.4		
72	69	19.31	2.7		
77	64	18.05	2.9		
89	55	15.60	3.4		
105	47	13.25	4.0		
117	42	11.83	4.5		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.55kW					
35	139	39.25	0.88		
38	131	36.79	0.94		
43	115	32.47	1.06		
48	102	28.78	1.20		
57	87	24.47	1.41		
62	79	22.32	1.54		
72	69	19.35	1.78		
77	64	18.08	1.90		
89	56	15.63	2.2		
105	47	13.28	2.6	R 27	4
117	42	11.86	2.9	RF27	4
137	36	10.13	3.2		
148	33	9.41	3.4		
170	29	8.16	3.8		
182	27	7.63	3.9		
211	23	6.59	4.3		
248	20	5.60	4.7		
278	18	5.00	5.0		
326	15	4.27	5.4		
348	14	4.00	5.6		
412	12	3.37	6.2		
77	64	18.06	1.25		
89	55	15.57	1.44		
96	52	14.52	1.55		
110	45	12.69	1.77		
117	42	11.89	1.89		
132	37	10.50	1.9		
149	33	9.31	2.0	R 17	4
161	31	8.63	2.1	RF17	4
176	28	7.91	2.2		
184	27	7.55	2.2		
197	25	7.04	2.3		
226	22	6.15	2.4		
241	20	5.76	2.6		
273	18	5.09	2.7		
308	16	4.51	2.8		
363	14	3.83	3.1		
171	30	5.18	2.3		
195	26	4.53	2.9	RX 67	6
206	25	4.30	3.0	RXF67	6
235	22	3.77	3.7		
268	19	5.18	3.7		
307	17	4.53	4.6		
323	16	4.30	4.7		
369	14	3.77	5.9		
434	12	3.20	7.9	RX 67	4
481	11	2.89	9.3	RXF67	4
547	9.4	2.54	12		
579	8.9	2.40	13		
681	7.6	2.04	17		
747	6.9	1.86	17		
863	6.0	1.61	18		
203	25	4.35	2.5		
234	22	3.79	2.9		
249	21	3.55	3.1	RX 57	6
282	18	3.14	3.3	RXF57	6
304	17	2.91	3.7		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.55kW					
320	16	4.35	4.0		
367	14	3.79	4.6		
392	13	3.55	4.9		
443	12	3.14	5.3		
478	11	2.91	5.8	RX 57	4
527	10	2.64	6.6	RXF57	4
586	8.8	2.37	7.4		
681	7.6	2.04	8.6		
724	7.1	1.92	9.1		
842	6.1	1.65	11		
939	5.8	1.48	12		
1069	4.8	1.30	12		
426	12	3.26	1.24		
456	11	3.05	1.33		
527	10	2.64	1.53	RX 37	4
621	8.3	2.24	1.81	RXF37	4
695	7.4	2.00	2.03		
813	6.3	1.71	2.37		
869	5.9	1.60	2.53		
0.75kW					
0.30	21596	4709	0.8		
0.33	19179	4182	0.88	R 167R97	4
0.52	12185	2657	1.39	RF167R97	4
0.60	10699	2333	1.58		
0.67	9562	2085	1.77		
0.95	6677	1456	2.5		
0.43	14804	3228	0.83		
0.49	12992	2833	0.94		
0.54	11717	2555	1.04		
0.63	10140	2211	1.21		
0.71	8947	1951	1.37	R 147R77	4
0.82	7819	1705	1.56	RF147R77	4
0.90	7044	1536	1.73		
1.0	6095	1329	2.0		
1.2	5347	1166	2.3		
0.67	9507	2073	0.79		
0.7	8544	1863	0.88		
0.76	8434	1839	0.89		
0.87	7287	1589	1.03		
0.9	7273	1586	1.03	R 137R77	4
0.99	6407	1397	1.17	RF137R77	4
1.0	6237	1360	1.21		
1.1	5632	1228	1.34		
1.2	5623	1226	1.34		
1.3	4999	1090	1.50		
1.5	4361	951	1.72		
1.7	3811	831	1.97		
1.9	3348	730	2.2		
1.3	5022	1095	0.80		
1.4	4783	1043	0.85		
1.5	4251	927	0.95	R 107R77	4
1.6	4072	888	0.99	RF107R77	4
1.7	3724	812	1.09		
1.8	3609	787	1.12		
3.9	1637	357	2.5		
4.4	1435	313	2.8		
2.2	2894	631	0.97		
2.5	2568	560	1.10		
2.9	2220	484	1.27	R 97R57	4
3.2	1972	430	1.43	RF97R57	4
3.7	1738	379	1.62		
4.1	1541	336	1.83		
4.7	1357	296	2.1		
5.6	1142	249	2.5		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.75kW					
3.5	1816	396	0.80		
3.9	1656	361	0.91		
4.0	1610	351	1.04		
4.6	1399	305	1.19	R 87R57	4
4.7	1376	300	1.35	RF87R57	4
5.2	1224	267	1.70		
5.4	1174	256	2.0		
5.9	1078	235	2.4		
2.8	2445	245.50	1.65	R 107	8
3.0	2259	226.11	1.81	RF107	8
3.4	1995	200.87	2.0		
3.1	2138	215.94	1.32	R 97	8
3.7	1841	185.97	1.53	RF97	8
4.0	1674	169.06	1.68		
3.6	1901	256.89	1.49	R 97	6
3.8	1782	240.83	1.58	RF97	6
4.2	1598	215.94	1.76		
4.8	1403	289.60	2.0		
5.4	1244	256.89	2.3		
5.8	1167	240.83	2.4	R 97	4
6.4	1046	215.94	2.7	RF97	4
7.5	901	185.97	3.1		
8.2	819	169.06	3.4		
4.2	1602	216.54	0.91		
4.4	1522	205.71	0.96	R 87	6
5.0	1345	181.77	1.08	RF87	6
5.9	1149	155.34	1.27		
6.4	1054	142.41	1.38		
5.6	1194	246.54	1.22		
6.4	1049	216.54	1.39		
6.8	996	205.71	1.46		
7.6	880	181.77	1.65		
8.9	752	155.34	1.94		
9.8	690	142.41	2.1	R 87	4
11	605	124.97	2.4	RF87	4
12	574	118.43	2.5		
13	502	103.65	2.9		
15	452	93.38	3.2		
8.3	807	166.59	0.96		
9.5	706	145.67	1.09		
10	670	138.39	1.15		
11	588	121.42	1.31		
13	499	102.99	1.55		
15	450	92.97	1.71	R 77	4
17	396	81.80	1.95	RF77	4
18	375	77.24	2.1		
21	319	65.77	2.4		
25	273	56.38	2.8		
27	247	50.90	3.1		
31	217	44.78	3.6		
33	205	42.29	3.8		
11	625	128.97	0.90		
12	552	113.94	1.02		
13	513	105.83	1.10		
14	465	95.91	1.21		
16	417	86.11	1.35	R 67	4
19	359	74.17	1.57	RF67	4
20	338	69.75	1.67		
23	297	61.26	1.90		
24	276	56.89	2.0		
27	250	51.56	2.3		
30	224	46.29	2.5		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.75kW					
13	516	106.58	0.82		
14	479	98.99	0.88		
15	435	89.71	0.97		
17	390	80.55	1.08		
20	335	69.23	1.26		
21	314	64.85	1.35		
24	277	57.29	1.52	R 57	4
26	258	53.22	1.64	RF57	4
29	234	48.23	1.81		
32	210	43.30	2.0		
37	181	37.30	2.3		
40	170	35.07	2.5		
46	146	30.18	2.9		
52	131	26.97	3.2		
53	130	26.31	3.3		
56	124	24.99	3.4		
63	108	21.93	3.9		
75	92	18.60	4.6		
20	332	68.54	0.85		
22	311	64.21	0.91		
25	275	56.73	1.03		
26	255	52.69	1.10		
29	231	47.75	1.22		
32	208	42.87	1.36		
38	179	36.93	1.58		
40	168	34.73	1.68	R 47	4
47	145	29.88	1.95	RF47	4
52	130	26.74	2.2		
53	129	26.70	2.2		
59	114	23.59	2.5		
60	113	23.28	2.5		
64	106	21.81	2.7		
72	93	19.27	3.0		
78	87	17.89	3.1		
86	79	16.22	3.3		
29	233	48.08	0.81		
31	217	44.81	0.87		
35	190	39.17	0.99		
38	178	36.72	1.06		
43	157	32.40	1.20		
48	139	28.73	1.35		
57	118	24.42	1.59		
62	110	22.27	1.71	R 37	4
72	96	19.31	1.97	RF37	4
77	89	18.05	2.1		
89	77	15.60	2.4		
105	66	13.25	2.7		
117	59	11.83	2.9		
137	50	10.11	3.2		
147	47	9.47	3.4		
48	139	28.78	0.88		
57	119	24.47	1.03		
62	110	22.32	1.11		
72	96	19.35	1.28		
77	89	18.08	1.37		
89	77	15.63	1.58		
105	66	13.28	1.86		
117	59	11.86	2.1	R 27	4
137	50	10.13	2.3	RF27	4
148	47	9.41	2.5		
170	40	8.16	2.7		
182	38	7.63	2.8		
211	33	6.59	3.1		
248	28	5.60	3.4		
278	25	5.00	3.6		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.75kW					
77	89	18.06	0.89		
89	77	15.57	1.04		
96	72	14.52	1.11		
110	63	12.69	1.27		
117	59	11.89	1.36		
132	52	10.50	1.41		
149	46	9.31	1.47	R 17	4
176	39	7.91	1.48	RF17	4
184	37	7.55	1.57		
197	35	7.04	1.67		
226	30	6.15	1.73		
241	28	5.76	1.75		
273	25	5.09	1.90		
308	22	4.51	2.0		
363	19	3.83	2.2		
201	35	4.53	2.2		
212	33	4.30	2.3	RX 67	6
241	29	3.77	2.8	RXF67	6
284	25	3.20	3.8		
268	26	5.18	2.7		
307	23	4.53	3.4		
323	22	4.30	3.5		
369	19	3.77	4.3	RX 67	4
434	16	3.20	5.8	RXF67	4
481	15	2.89	6.8		
547	13	2.54	8.6		
579	12	2.40	9.5		
681	10	2.04	12		
747	9	1.86	13		
863	8	1.61	13		
240	29	3.79	2.2		
256	27	3.55	2.4		
290	24	3.14	2.5	RX 57	6
313	22	2.91	2.8	RXF57	6
345	20	2.64	3.2		
320	22	4.35	2.9		
367	19	3.79	3.4		
392	18	3.55	3.6		
443	16	3.14	3.9		
478	15	2.91	4.3	RX 57	4
527	13	2.64	4.9	RXF57	4
586	12	2.37	5.4		
681	11	2.04	6.3		
724	10	1.92	6.7		
842	9	1.65	7.8		
939	8	1.48	8.6		
1069	7	1.30	9.0		
456	15	3.05	0.97		
527	13	2.64	1.13		
621	11	2.24	1.33	RX 37	4
695	10	2.00	1.49	RXF37	4
813	9	1.71	1.74		
869	8	1.60	1.86		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.1kW					
0.53	17744	2657	0.95		
0.60	15580	2333	1.09		
0.67	13924	2085	1.22		
0.75	12535	1877	1.35	R 167R97	4
0.84	11153	1670	1.52	RF167R97	4
0.96	9723	1456	1.74		
1.1	8655	1296	2.0		
1.2	7593	1137	2.2		
0.63	14765	2211	0.83		
0.72	13029	1951	0.94		
0.82	11386	1705	1.07		
0.91	10258	1536	1.19		
1.1	8875	1329	1.38	R 147R77	4
1.2	7787	1166	1.57	RF147R77	4
1.4	6872	1029	1.78		
1.6	5937	889	2.1		
1.8	5236	784	2.3		
2.0	4641	695	2.6		
1.0	9082	1360	0.83		
1.1	8201	1228	0.92		
1.2	8187	1226	0.92		
1.3	7279	1090	1.03		
1.3	7212	1080	1.04		
1.4	6812	1020	1.10	R 137R77	4
1.5	6351	951	1.18	RF137R77	4
1.6	5803	869	1.30		
1.7	5550	831	1.36		
1.9	4875	730	1.54		
2.2	4201	629	1.79		
2.6	3666	549	2.1		
2.9	3272	490	2.3		
2.0	4621	692	0.87		
2.3	3994	598	1.01		
2.6	3539	530	1.14		
2.9	3199	479	1.26	R 107R77	4
3.4	2711	406	1.49	RF107R77	4
3.9	2384	357	1.70		
4.5	2090	313	1.93		
5.1	1850	277	2.2		
5.7	1636	245	2.5		
3.3	2872	430	0.98		
3.7	2531	379	1.11		
4.2	2244	336	1.26	R 97R57	4
4.7	1977	296	1.43	RF97R57	4
5.6	1663	249	1.70		
6.0	1563	234	1.80		
6.7	1396	209	2.0		
5.2	1783	267	0.82		
5.5	1710	256	0.85		
6.0	1569	235	0.93	R 87R57	4
6.1	1543	231	0.94	RF87R57	4
6.7	1389	208	1.05		
7.2	1302	195	1.12		
2.8	3586	245.50	1.13		
3.0	3283	226.11	1.23	R 107	8
3.4	2901	200.87	1.39	RF107	8
4.0	2461	167.29	1.64		

1.1kW

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
3.5	2788	256.89	1.02	R 97	6
3.8	2613	240.83	1.08	RF97	6
4.2	2343	215.94	1.20		
4.9	2018	185.97	1.39		
5.4	1812	256.89	1.56		
5.8	1699	240.83	1.66		
6.5	1523	215.94	1.85		
7.5	1312	185.97	2.1	R 97	4
8.3	1192	169.06	2.4	RF97	4
9.3	1064	150.78	2.7		
11	894	126.75	3.2		
12	822	116.48	3.4		
6.5	1527	216.54	0.95		
6.8	1451	205.71	1.00		
7.7	1282	181.77	1.14		
9.0	1096	155.34	1.33		
9.8	1004	142.41	1.45		
11	881	124.97	1.65		
12	835	118.43	1.74	R 87	4
14	731	103.65	1.99	RF87	4
15	659	93.38	2.2		
17	578	81.92	2.5		
19	510	72.37	2.9		
22	448	63.50	3.3		
23	424	60.18	3.4		
27	372	52.67	3.9		
12	856	121.42	0.90		
14	726	102.99	1.06		
15	656	92.97	1.18		
17	577	81.80	1.34		
18	545	77.24	1.41		
21	464	65.77	1.66	R 77	4
25	398	56.38	1.94	RF77	4
28	359	50.90	2.1		
31	316	44.78	2.4		
33	298	42.29	2.6		
39	254	36.01	3.0		
43	231	32.72	3.3		
16	607	86.11	0.93		
19	523	74.17	1.08		
20	492	69.75	1.15		
23	432	61.26	1.31		
25	401	56.89	1.41		
27	364	51.56	1.55		
30	326	46.29	1.73	R 67	4
35	281	39.88	1.9	RF67	4
37	265	37.50	2.0		
43	228	32.27	2.2		
49	203	28.83	2.4		
50	201	28.13	2.5		
52	192	26.72	2.6		
60	169	23.44	3.1		
70	143	19.89	3.9		

1.1kW

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
20	488	69.23	0.87		
22	457	64.85	0.92		
24	404	57.29	1.05		
26	375	53.22	1.13		
29	340	48.23	1.24		
32	305	43.30	1.39		
38	263	37.30	1.61	R 57	4
40	247	35.07	1.71	RF57	4
46	213	30.18	1.99		
52	190	26.97	2.2		
53	186	26.31	2.3		
56	176	24.99	2.4		
64	155	21.93	2.7		
75	131	18.60	3.2		
83	118	16.79	3.6		
29	337	47.75	0.84		
33	302	42.87	0.93		
38	260	36.93	1.08		
40	245	34.73	1.15		
47	211	29.88	1.34		
52	188	26.70	1.50		
59	166	23.59	1.69		
60	164	23.28	1.72		
64	154	21.81	1.83	R 47	4
73	136	19.27	2.0	RF47	4
78	126	17.89	2.2		
86	114	16.22	2.3		
96	103	14.56	2.4		
112	88	12.54	2.7		
119	83	11.79	2.8		
138	72	10.15	3.0		
154	64	9.07	3.2		
43	229	32.40	0.82		
49	203	28.73	0.93		
57	172	24.42	1.09		
73	139	19.31	1.35		
78	130	18.05	1.45		
90	112	15.60	1.67		
106	95	13.25	1.87		
118	85	11.83	2.0	R 37	4
138	73	10.11	2.2	RF37	4
148	68	9.47	2.3		
176	57	7.97	2.6		
210	48	6.67	2.8		
247	41	5.67	3.3		
277	36	5.06	3.5		
72	139	19.35	0.88		
77	130	18.08	0.94		
90	113	15.63	1.09		
105	96	13.28	1.25		
118	85	11.86	1.42		
138	73	10.13	1.57		
172	59	8.16	1.86	R 27	4
183	55	7.63	1.92	RF27	4
212	47	6.59	2.1		
250	40	5.60	2.3		
280	36	5.00	2.5		
328	31	4.27	2.7		
350	29	4.00	2.8		
415	24	3.37	3.1		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.1kW					
249	41	5.63	2.5	RX 77	4
262	39	5.35	2.5	RXF77	4
296	35	4.73	3.3		
201	51	4.53	1.50	RX 67	6
212	49	4.30	1.55	RXF67	6
241	43	3.77	1.92		
309	33	4.53	2.3		
326	32	4.30	2.4		
371	28	3.77	2.9		
438	24	3.20	4.0		
484	21	2.89	4.7	RX 67	4
551	19	2.54	5.9	RXF67	4
583	18	2.40	6.6		
686	15	2.04	8.4		
753	14	1.86	8.7		
870	12	1.61	9.1		
1000	10	1.40	9.5		
240	43	3.79	1.5		
256	40	3.55	1.6		
290	36	3.14	1.7	RX 57	6
313	33	2.91	1.9	RXF57	6
345	30	2.64	2.2		
369	28	3.79	2.3		
394	26	3.55	2.5		
446	23	3.14	2.6		
481	21	2.91	2.9		
530	19	2.64	3.3	RX 57	4
591	17	2.37	3.7	RXF57	4
686	15	2.04	4.3		
729	14	1.92	4.6		
848	12	1.65	5.3		
946	11	1.48	5.9		
1077	10	1.30	6.2		
700	15	2.00	1.02	RX 37	4
819	13	1.71	1.19	RXF37	4
875	12	1.60	1.27		
1.5kW					
0.60	21246	2333	0.80		
0.67	18987	2085	0.89		
0.75	17093	1877	0.99		
0.84	15208	1670	1.11	R 167R97	4
0.96	13259	1456	1.28	RF167R97	4
1.1	11802	1296	1.43		
1.2	10354	1137	1.63		
1.4	9213	1012	1.84		
3.2	3934	432	3.1	R 147R87	4
3.8	3388	373	3.6	RF147R87	4
0.82	15527	1705	0.8		
0.91	13988	1536	0.87		
1.1	12103	1329	1.01		
1.2	10618	1166	1.15	R 147R77	4
1.4	9371	1029	1.30	RF147R77	4
1.6	8096	889	1.51		
1.8	7140	784	1.71		
2.0	6329	695	1.93		
2.3	5528	607	2.2		
2.6	4981	547	2.5		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.5kW					
1.3	10038	1090	0.75		
1.4	9393	1020	0.80		
1.5	8758	951	0.86		
1.6	8003	869	0.94		
1.7	7653	831	0.98		
1.9	6723	730	1.12		
2.0	6299	684	1.19	R 137R77	4
2.2	5792	629	1.30	RF137R77	4
2.4	5479	595	1.37		
2.6	5056	549	1.49		
2.9	4512	490	1.67		
3.3	3941	428	1.91		
3.7	3444	374	2.2		
4.4	2919	317	2.6		
2.6	4827	530	0.84		
2.7	4644	510	0.87		
2.9	4362	479	0.93		
3.0	4216	463	0.96	R 107R77	4
3.4	3697	406	1.09	RF107R77	4
3.9	3251	357	1.24		
4.5	2850	313	1.42		
4.2	3060	336	0.92		
4.7	2696	296	1.05		
5.6	2268	249	1.24	R 97R57	4
6.0	2131	234	1.32	RF97R57	4
6.7	1903	209	1.48		
3.1	4413	226.11	0.92		
3.5	3920	200.87	1.03	R 107	8
4.1	3265	167.29	1.24	RF107	8
4.4	3045	156.04	1.32		
3.7	3593	245.50	1.12		
4.1	3309	226.11	1.22		
4.6	2940	200.87	1.37	R 107	6
5.5	2449	167.29	1.65	RF107	6
5.8	2304	156.04	1.77		
6.6	2041	139.47	1.98		
5.4	2417	256.89	1.14		
5.8	2316	240.83	1.22		
6.5	2077	215.94	1.36		
7.5	1789	185.97	1.58		
8.3	1626	169.06	1.73	R 97	4
9.3	1450	150.78	1.94	RF97	4
11	1219	126.75	2.3		
12	1120	116.48	2.5		
14	995	103.44	2.8		
15	889	92.47	3.2		
7.7	1748	181.77	0.83		
9.0	1494	155.34	0.98		
9.8	1370	142.41	1.06		
11	1202	124.97	1.21		
12	1139	118.43	1.28		
14	997	103.65	1.46		
15	898	93.38	1.62		
17	788	81.92	1.85	R 87	4
19	696	72.37	2.1	RF87	4
22	611	63.50	2.4		
23	579	60.18	2.5		
27	507	52.67	2.9		
30	456	47.45	3.2		
34	400	41.63	3.6		
38	353	36.73	4.1		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.5kW					
15	894	92.97	0.86		
17	787	81.80	0.98		
18	743	77.24	1.04		
21	633	65.77	1.22		
25	542	56.38	1.42		
28	490	50.90	1.57		
31	431	44.78	1.79	R 77	4
33	407	42.29	1.90	RF77	4
39	346	36.01	2.2		
43	315	32.72	2.4		
49	273	28.35	2.8		
57	237	24.67	3.1		
60	225	23.37	3.4		
65	206	21.43	3.7		
74	181	18.80	4.1		
23	589	61.26	0.96		
25	547	56.89	1.03		
27	496	51.56	1.14		
30	445	46.29	1.27		
35	384	39.88	1.47		
37	361	37.50	1.56	R 67	4
43	310	32.27	1.82	RF67	4
49	277	28.83	2.0		
50	276	28.13	2.0		
52	262	26.72	2.1		
60	230	23.44	2.4		
70	195	19.89	2.9		
78	176	17.95	3.2		
26	523	53.22	0.8		
29	474	48.23	0.9		
32	425	43.30	1.0		
38	366	37.30	1.15		
40	344	35.07	1.23		
46	296	30.18	1.43		
52	265	26.97	1.60	R 57	4
53	258	26.31	1.64	RF57	4
56	245	24.99	1.72		
64	215	21.93	1.96		
75	183	18.60	2.3		
83	165	16.79	2.6		
95	145	14.77	2.8		
100	137	13.95	2.9		
118	117	11.88	3.3		
38	355	36.93	0.8		
40	334	34.73	0.84		
47	287	29.88	0.98		
52	257	26.70	1.1		
59	227	23.59	1.2		
60	224	23.28	1.26		
64	210	21.81	1.34		
73	185	19.27	1.50		
78	172	17.89	1.58		
86	156	16.22	1.66		
96	140	14.56	1.8		
112	121	12.54	1.9	R 47	4
119	113	11.79	2.0	RF47	4
138	98	10.15	2.1		
154	87	9.07	2.2		
175	77	8.01	2.3		
180	75	7.76	2.4		
201	67	6.96	2.5		
233	58	6.00	2.5		
248	54	5.64	2.7		
289	47	4.85	3.0		
323	42	4.34	3.3		
366	37	3.83	3.7		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.5kW					
73	186	19.31	1.01		
78	174	18.05	1.08		
90	150	15.60	1.25		
106	127	13.25	1.40		
118	114	11.83	1.51		
138	97	10.11	1.64		
148	91	9.47	1.72	R 37	4
176	77	7.97	1.91	RF37	4
210	64	6.67	2.1		
247	55	5.67	2.4		
277	49	5.06	2.6		
324	42	4.32	2.9		
346	39	4.05	2.9		
411	33	3.41	3.2		
90	150	15.63	0.81		
105	128	13.28	0.96		
118	114	11.86	1.06		
138	97	10.13	1.18		
172	78	8.16	1.39		
183	73	7.63	1.43	R 27	4
212	63	6.59	1.57	RF27	4
250	54	5.60	1.73		
280	48	5.00	1.86		
328	41	4.27	1.99		
350	38	4.00	2.1		
415	32	3.37	2.3		
249	54	5.63	1.91		
262	51	5.35	1.88		
296	45	4.73	2.5		
347	39	4.04	3.5	RX 77	4
378	36	3.70	4.0	RXF77	4
431	31	3.25	5.5		
455	30	3.08	6.1		
519	26	2.70	7.8		
576	23	2.43	8.6		
309	44	4.53	1.77		
326	41	4.30	1.82		
371	36	3.77	2.3		
438	31	3.20	3.1		
484	28	2.89	3.6	RX 67	4
551	24	2.54	4.5	RXF67	4
583	23	2.40	5.0		
686	20	2.04	6.4		
753	18	1.86	6.6		
870	15	1.61	6.9		
1000	13	1.40	7.3		
369	36	3.79	1.78		
394	34	3.55	1.90		
446	30	3.14	2.0		
481	28	2.91	2.3		
530	25	2.64	2.6		
591	23	2.37	2.8	RX 57	4
686	20	2.04	3.3	RXF57	4
729	18	1.92	3.5		
848	16	1.65	4.1		
946	14	1.48	4.5		
1077	13	1.30	4.7		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
2.2kW					
0.85	21991	1670	0.8		
0.98	19173	1456	0.88		
1.1	17066	1296	1.0		
1.2	14972	1137	1.1	R 167R97	4
1.4	13326	1012	1.27	RF167R97	4
1.6	11483	872	1.47		
1.8	10140	770	1.67		
2.1	8744	664	1.9		
2.6	7111	540	1.72		
3.1	6084	462	2.0	R 147R87	4
3.3	5689	432	2.1	RF147R87	4
3.8	4912	373	2.5		
4.3	4346	330	2.8		
1.2	15354	1166	0.80		
1.4	13550	1029	0.90		
1.6	11707	889	1.04		
1.8	10324	784	1.18	R 147R77	4
2.0	9152	695	1.34	RF147R77	4
2.3	7993	607	1.53		
2.6	7203	547	1.70		
3.0	6321	480	1.93		
1.9	9721	730	0.77		
2.1	9108	684	0.83		
2.3	8376	629	0.90		
2.4	7923	595	0.95		
2.6	7311	549	1.03	R 137R77	4
2.9	6525	490	1.15	RF137R77	4
3.3	5699	428	1.32		
3.8	4980	374	1.51		
4.5	4221	317	1.78		
5.0	3808	286	1.97		
5.6	3377	250	2.2		
6.4	2958	219	2.5		
3.9	4822	357	0.84		
4.4	4336	321	0.93		
4.5	4228	313	0.96	R 107R77	4
5.1	3741	277	1.08	RF107R77	4
5.5	3458	256	1.17		
6.7	2809	208	1.44		
6.0	3125	234	0.90	R 97R57	4
6.7	2791	209	1.01	RF97R57	4
3.2	6212	223.34	1.21		
3.8	5234	188.16	1.43		
4.1	4851	174.4	1.55		
4.5	4348	156.31	1.73	R 137	8
5.0	3925	141.12	1.92	RF137	8
5.5	3565	128.18	2.1		
6.2	3163	113.72	2.4		
6.9	2871	103.2	2.6		
4.7	4220	200.87	0.96		
5.6	3515	167.29	1.15	R 107	6
6.0	3278	156.04	1.23	RF107	6
6.7	2930	139.47	1.38		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
2.2kW					
5.8	3414	245.50	1.18		
6.3	3145	226.11	1.29		
7.1	2744	200.87	1.45		
8.5	2327	167.29	1.74	R 107	4
9.1	2170	156.04	1.86	RF107	4
10	1940	139.47	2.1		
11	1746	125.55	2.3		
12	1581	113.70	2.6		
14	1402	100.82	2.9		
16	1286	91.16	3.2		
6.6	3003	215.94	0.94		
7.6	2586	185.97	1.09		
8.4	2351	169.06	1.20		
9.4	2097	150.78	1.34		
11	1763	126.75	1.60		
12	1620	116.48	1.74	R 97	4
14	1439	103.44	1.96	RF97	4
15	1286	92.48	2.2		
17	1156	83.15	2.4		
20	1004	72.17	2.8		
22	906	65.12	3.1		
24	832	59.84	3.4		
27	739	53.14	3.8		
30	661	47.51	4.3		
11	1738	124.97	0.84		
12	1647	118.43	0.88		
14	1442	103.65	1.01		
15	1299	93.38	1.12		
17	1139	81.92	1.28		
20	1007	72.37	1.45		
22	883	63.50	1.65		
24	837	60.18	1.74	R 87	4
27	733	52.67	1.99	RF87	4
30	660	47.45	2.2		
34	579	41.63	2.5		
39	511	36.73	2.9		
41	478	34.34	3.0		
44	453	32.57	3.2		
45	434	31.22	3.4		
51	387	27.81	3.8		
61	325	23.40	4.5		
66	299	21.51	4.7		
22	915	65.77	0.8		
25	784	56.38	1.0		
28	708	50.90	1.1		
32	623	44.78	1.2		
34	588	42.29	1.31		
39	501	36.01	1.54		
43	455	32.72	1.69	R 77	4
50	394	28.35	1.95	RF77	4
58	343	24.67	2.1		
61	325	23.37	2.4		
66	298	21.43	2.6		
76	261	18.80	2.8		
80	248	17.82	3.0		
91	217	15.60	3.2		
101	195	14.05	3.5		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
2.2kW					
36	555	39.88	0.98		
38	522	37.50	1.03		
44	449	32.27	1.13		
49	401	28.83	1.22		
61	326	23.44	1.61		
71	277	19.89	2.0	R 67	4
79	250	17.95	2.2	RF67	4
90	220	15.79	2.4		
95	207	14.91	2.5		
112	177	12.70	2.8		
123	160	11.54	2.9		
142	139	10.00	3.2		
163	121	8.70	3.3		
182	108	7.79	3.4		
38	519	37.30	0.82		
40	488	35.07	0.87		
47	420	30.18	1.01		
53	375	26.97	1.13		
65	305	21.93	1.39		
76	259	18.60	1.64		
85	234	16.79	1.81	R 57	4
96	205	14.77	1.99	RF57	4
102	194	13.95	2.1		
120	165	11.88	2.3		
132	150	10.79	2.4		
152	130	9.35	2.7		
157	126	9.06	2.8		
178	111	7.97	3.0		
74	268	19.27	1.03		
88	226	16.22	1.15		
98	203	14.56	1.23		
113	174	12.54	1.35		
120	164	11.79	1.40		
140	141	10.15	1.53		
157	126	9.07	1.64	R 47	4
177	111	8.01	1.73	RF47	4
183	108	7.76	1.42		
204	97	6.96	1.54		
237	83	6.00	1.76		
252	78	5.64	1.86		
293	67	4.85	2.1		
327	60	4.34	2.3		
371	53	3.83	2.5		
91	217	15.60	0.87		
107	184	13.25	0.97		
120	165	11.83	1.05		
140	141	10.11	1.14		
150	132	9.47	1.19	R 37	4
178	111	7.97	1.32	RF37	4
213	93	6.67	1.46		
250	79	5.67	1.69		
281	70	5.06	1.80		
329	60	4.32	2.0		
351	56	4.05	2.0		
416	47	3.41	2.2		
140	141	10.13	0.81		
215	92	6.59	1.09		
254	78	5.60	1.19	R 27	4
284	70	5.00	1.28	RF27	4
333	59	4.27	1.38		
355	56	4.00	1.44		
421	47	3.37	1.58		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
2.2kW					
300	69	4.73	1.69		
351	59	4.04	2.3		
384	54	3.70	2.7		
437	47	3.25	3.6		
461	45	3.08	4.1	RX 77	4
526	39	2.70	5.2	RXF77	4
584	35	2.43	5.7		
667	31	2.13	6.1		
755	27	1.88	6.4		
850	24	1.67	6.7		
1000	21	1.42	7.1		
377	55	3.77	1.50		
444	46	3.20	2.0		
491	42	2.89	2.4		
559	37	2.54	3.0	RX 67	4
592	35	2.40	3.3	RXF67	4
696	30	2.04	4.3		
763	27	1.86	4.4		
882	23	1.61	4.6		
1014	20	1.40	4.8		
452	46	3.14	1.34		
538	38	2.64	1.69		
599	34	2.37	1.89		
696	30	2.04	2.2	RX 57	4
740	28	1.92	2.3	RXF57	4
861	24	1.65	2.7		
959	21	1.48	3.0		
1092	19	1.30	3.1		
3.0kW					
1.2	20417	1137	0.83		
1.4	18172	1012	0.93		
1.6	15658	872	1.08	R 167R97	4
1.8	13827	770	1.22	RF167R97	4
2.1	11923	664	1.42		
2.8	9158	510	1.85		
2.6	9697	540	1.26		
3.1	8296	462	1.47		
3.3	7757	432	1.58	R 147R87	4
3.8	6698	373	1.82	RF147R87	4
4.3	5926	330	2.1		
5.0	5082	283	2.4		
1.6	15963	889	0.8		
1.8	14078	784	0.87		
2.0	12480	695	0.98	R 147R77	4
2.3	10900	607	1.12	RF147R77	4
2.6	9822	547	1.24		
2.7	9388	517	0.80		
2.9	8898	490	0.85		
3.1	8226	453	0.91		
3.3	7772	428	0.97		
3.8	6791	374	1.11	R 137R77	4
4.5	5756	317	1.31	RF137R77	4
5.0	5193	286	1.45		
5.7	4540	250	1.66		
6.5	3977	219	1.89		
5.6	4798	253	0.84		
5.8	4647	245	0.87	R 107R77	4
6.8	3945	208	1.02	RF107R77	4
7.8	3433	181	1.18		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
3.0kW					
3.2	8472	223.34	0.89		
3.8	7137	188.16	1.05		
4.1	6615	174.40	1.14		
4.5	5929	156.31	1.27	R 137	8
5.0	5353	141.12	1.40	RF137	8
5.5	4862	128.18	1.55		
6.2	4314	113.72	1.74		
6.9	3914	103.20	1.92		
8.0	3364	88.70	2.20		
4.3	6245	222.60	1.20		
5.1	5287	188.45	1.42		
5.5	4892	174.40	1.54		
6.1	4385	156.31	1.71	R 137	6
6.8	3959	141.12	1.90	RF137	6
7.5	3596	128.18	2.10		
8.4	3190	113.72	2.40		
9.3	2895	103.20	2.60		
6.2	4377	156.04	0.92		
6.9	3913	139.47	1.03	R 107	6
7.6	3522	125.55	1.15	RF107	6
6.3	4288	226.11	0.94		
7.1	3810	200.87	1.06		
8.5	3172	167.29	1.27		
9.1	2959	156.04	1.37		
10	2645	139.47	1.53		
11	2381	125.55	1.70	R 107	4
12	2156	113.70	1.87	RF107	4
14	1912	100.82	2.1		
16	1729	91.16	2.3		
18	1465	77.26	2.8		
20	1366	72.00	3.0		
9.4	2860	150.78	0.99		
11	2404	126.75	1.17		
12	2209	116.48	1.28		
14	1962	103.44	1.44		
15	1754	92.48	1.61		
17	1577	83.15	1.79	R 97	4
20	1369	72.17	2.1	RF97	4
22	1235	65.12	2.3		
24	1135	59.84	2.5		
27	1008	53.14	2.8		
30	901	47.51	3.1		
33	810	42.72	3.5		
38	703	37.08	4.0		
43	630	33.20	4.3		
15	1771	93.38	0.82		
17	1554	81.92	0.94		
20	1373	72.37	1.06		
22	1204	63.50	1.21		
24	1141	60.18	1.28		
27	999	52.67	1.46		
30	900	47.45	1.62		
34	790	41.63	1.85	R 87	4
39	697	36.73	2.1	RF87	4
41	651	34.34	2.2		
44	618	32.57	2.4		
45	592	31.22	2.5		
51	528	27.84	2.8		
53	527	27.81	2.8		
61	444	23.40	3.3		
66	408	21.51	3.5		
74	362	19.10	3.6		
83	324	17.08	4.0		
93	291	15.35	4.3		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
3.0kW					
32	849	44.78	0.91		
34	802	42.29	0.96		
39	683	36.01	1.13		
43	621	32.72	1.24		
50	538	28.35	1.43		
58	468	24.67	1.57		
61	443	23.37	1.74		
66	406	21.43	1.90	R 77	4
76	357	18.80	2.1	RF77	4
80	338	17.82	2.2		
91	296	15.60	2.4		
101	266	14.05	2.5		
115	234	12.33	2.8		
131	206	10.88	3.0		
147	183	9.64	3.2		
169	160	8.42	3.7		
187	144	7.59	4.0		
213	126	6.66	4.3		
61	445	23.44	1.18		
71	377	19.89	1.50		
79	340	17.95	1.63		
90	299	15.79	1.76	R 67	4
95	283	14.91	1.8	RF67	4
112	241	12.70	2.0		
123	219	11.54	2.1		
142	190	10.00	2.3		
53	511	26.97	0.8		
65	416	21.93	1.02		
76	353	18.60	1.20		
85	318	16.79	1.33		
96	280	14.77	1.46		
102	265	13.95	1.53		
120	225	11.88	1.69		
132	205	10.79	1.79	R 57	4
152	177	9.35	2.0	RF57	4
157	172	9.06	2.1		
178	151	7.97	2.2		
189	143	7.53	2.3		
222	122	6.41	2.6		
244	110	5.82	2.7		
281	96	5.05	3.0		
323	83	4.39	3.2		
88	308	16.22	0.84		
98	276	14.56	0.90		
113	238	12.54	0.99		
120	224	11.79	1.03		
140	192	10.15	1.12		
157	172	9.07	1.20		
177	152	8.01	1.27	R 47	4
183	147	7.76	1.04	RF47	4
204	132	6.96	1.13		
237	114	6.00	1.29		
252	107	5.64	1.36		
293	92	4.85	1.53		
327	82	4.34	1.67		
371	73	3.83	1.86		
140	192	10.11	0.83		
150	180	9.47	0.87		
178	151	7.97	0.97		
213	126	6.67	1.07	R 37	4
250	108	5.67	1.24	RF37	4
281	96	5.06	1.32		
329	82	4.32	1.45		
351	77	4.05	1.49		
416	65	3.41	1.63		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
3.0kW					
254	106	5.60	0.88	R 27	4
284	95	5.00	0.94	RF27	4
333	81	4.27	1.01		
355	76	4.00	1.05		
421	64	3.37	1.2		
109	258	6.47	4.31	RX 127	8
				RXF127	8
220	127	6.44	1.42	RX 87	4
256	110	5.55	1.92	RXF87	4
281	100	5.05	2.3		
316	89	4.50	3.1		
376	75	3.78	3.8		
300	94	4.73	1.24	RX 77	4
351	80	4.04	1.68	RXF77	4
384	73	3.70	1.97		
437	64	3.25	2.7		
461	61	3.08	3.0		
377	75	3.77	1.10	RX 67	4
444	63	3.20	1.49	RXF67	4
491	57	2.89	1.74		
559	50	2.54	2.2		
592	47	2.40	2.4		
696	40	2.04	3.1		
763	37	1.86	3.2		
882	32	1.61	3.4		
1014	28	1.40	3.5		
452	62	3.14	0.98	RX 57	4
538	52	2.64	1.24	RXF57	4
599	47	2.37	1.38		
696	40	2.04	1.61		
740	38	1.92	1.71		
861	33	1.65	1.99		
959	29	1.48	2.2		
1092	26	1.30	2.3		
4.0kW					
1.7	20588	872	0.82	R 167R97	4
1.9	18179	770	0.93	RF167R97	4
2.2	15677	664	1.08		
2.8	12041	510	1.41		
3.8	8972	380	1.89		
4.3	7980	338	2.1		
2.7	12749	540	0.96	R 147R87	4
3.1	10908	462	1.12	RF147R87	4
3.3	10199	432	1.20		
3.9	8806	373	1.39		
4.4	7791	330	1.57		
5.1	6682	283	1.83		
5.8	5902	250	2.1		
6.7	5100	216	2.4		
7.5	4509	191	2.7		
8.9	3801	161	3.2		
2.4	14331	607	0.85	R 147R77	4
2.6	12915	547	0.95	RF147R77	4
3.0	11333	480	1.08		
3.5	9609	407	1.27		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
4.0kW					
3.8	8877	376	0.85	R 137R77	4
3.9	8830	374	0.85	RF137R77	4
4.2	8004	339	0.94		
4.5	7484	317	1.00		
4.8	7012	297	1.07		
5.0	6752	286	1.11		
5.8	5902	250	1.27		
6.6	5171	219	1.45		
7.5	4509	191	0.90	R 107R77	4
8.0	4273	181	0.95	RF107R77	4
8.6	3943	167	1.03		
4.4	8152	163.46	1.50	R 147	8
4.9	7324	146.85	1.67	RF147	8
6.0	5946	119.24	2.0		
6.5	5487	110.03	2.2		
4.1	8698	174.40	0.86	R 137	8
4.6	7796	156.31	0.96	RF137	8
5.1	7038	141.12	1.07		
5.6	6393	128.18	1.18		
6.3	5671	113.72	1.33		
7.0	5147	103.20	1.46		
4.3	8354	223.34	0.90	R 137	6
5.1	7038	188.16	1.07	RF137	6
5.5	6523	174.40	1.15		
6.1	5847	156.31	1.29		
6.8	5278	141.12	1.42		
7.5	4794	128.18	1.57		
8.4	4254	113.72	1.77		
9.3	3860	103.2	1.95		
11	3318	88.70	2.3		
9	4172	167.29	0.97	R 107	4
10	3891	156.04	1.04	RF107	4
11	3478	139.47	1.16		
12	3131	125.55	1.29		
13	2835	113.70	1.43		
14	2514	100.82	1.61		
16	2273	91.16	1.78		
19	1927	77.26	2.1		
20	1795	72.00	2.3		
22	1616	64.81	2.5		
25	1464	58.69	2.8		
28	1298	52.05	3.1		
12	2905	116.48	0.97	R 97	4
14	2579	103.44	1.09	RF97	4
16	2306	92.48	1.22		
17	2073	83.15	1.36		
20	1800	72.17	1.57		
22	1624	65.12	1.74		
24	1492	59.84	1.89		
27	1325	53.14	2.1		
30	1185	47.51	2.4		
34	1065	42.72	2.6		
39	925	37.08	3.0		
43	828	33.20	3.2		
45	803	32.22	3.3		
54	669	26.84	3.6		
58	624	25.03	4.3		
64	558	22.37	4.6		
71	502	20.14	4.9		
78	455	18.24	6.2		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
4.0kW					
23	1583	63.5	0.92		
24	1501	60.18	0.97		
27	1313	52.67	1.11		
30	1183	47.45	1.23		
35	1038	41.63	1.40		
39	916	36.73	1.59		
42	856	34.34	1.70		
44	812	32.57	1.79		
46	779	31.22	1.87	R 87	4
52	694	27.84	2.1	RF87	4
53	693	27.81	2.2		
62	584	23.40	2.5		
67	536	21.51	2.7		
75	476	19.10	3.1		
84	426	17.08	3.1		
94	383	15.35	3.3		
108	332	13.33	3.6		
121	297	11.93	3.9		
40	898	36.01	0.86		
44	816	32.72	0.94		
51	707	28.35	1.09		
58	615	24.67	1.19		
62	583	23.37	1.32		
67	534	21.43	1.44		
77	469	18.80	1.56		
81	444	17.82	1.65		
92	389	15.60	1.79	R 77	4
102	350	14.05	1.93	RF77	4
117	307	12.33	2.1		
132	271	10.88	2.3		
149	240	9.64	2.5		
171	210	8.42	2.8		
190	189	7.59	3.0		
216	166	6.66	3.3		
245	147	5.88	3.5		
276	130	5.21	3.7		
72	496	19.89	1.14		
80	448	17.95	1.24		
91	394	15.79	1.34		
97	372	14.91	1.39		
113	317	12.70	1.54		
125	288	11.54	1.63		
144	249	10.00	1.77	R 67	4
166	217	8.70	1.91	RF67	4
185	194	7.79	1.84		
196	184	7.36	1.90		
230	156	6.27	2.0		
253	142	5.70	2.1		
292	123	4.93	2.2		
336	107	4.29	2.4		
77	464	18.60	0.91		
86	419	16.79	1.01		
97	368	14.77	1.11		
103	348	13.95	1.16		
121	296	11.88	1.29		
133	269	10.79	1.36	R 57	4
154	233	9.35	1.49	RF57	4
159	226	9.06	1.56		
181	199	7.97	1.68		
191	188	7.53	1.75		
225	160	6.41	1.97		
247	145	5.82	2.1		
285	126	5.05	2.3		
328	109	4.39	2.4		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
4.0kW					
142	253	10.15	0.85		
159	226	9.07	0.86		
180	200	8.01	0.91		
207	174	6.96	0.96		
240	150	6.00	0.98	R 47	4
255	141	5.64	1.04	RF47	4
297	121	4.85	1.17		
332	108	4.34	1.27		
376	96	3.83	1.42		
109	344	6.47	3.23	RX 127	8
121	310	5.88	3.59	RXF127	8
147	254	6.47	4.37	RX 127	6
				RXF127	6
259	144	5.55	1.46		
285	131	5.05	1.78	RX 87	4
320	117	4.50	2.3	RXF87	4
381	98	3.78	2.9		
356	105	4.04	1.28		
389	96	3.70	1.50		
443	84	3.25	2.0		
468	80	3.08	2.3		
533	70	2.70	2.9		
593	63	2.43	3.2	RX 77	4
676	55	2.13	3.4	RXF77	4
766	49	1.88	3.6		
862	43	1.67	3.7		
1014	37	1.42	3.9		
450	83	3.20	1.13		
498	75	2.89	1.33		
567	66	2.54	1.68		
600	62	2.40	1.85		
706	53	2.04	2.4	RX 67	4
774	48	1.86	2.4	RXF67	4
894	42	1.61	2.6		
1029	36	1.40	2.7		
545	69	2.64	0.95		
608	62	2.37	1.05		
706	53	2.04	1.22		
750	50	1.92	1.30	RX 57	4
873	43	1.65	1.51	RXF57	4
973	38	1.48	1.66		
1108	34	1.30	1.75		
5.5kW					
2.2	21556	664	0.80		
2.5	18764	578	0.90		
2.8	16556	510	1.02		
3.3	14219	438	1.19	R 167R97	4
3.8	12336	380	1.37	RF167R97	4
4.3	10973	338	1.54		
4.7	9966	307	1.70		
5.1	9155	282	1.85		
3.1	14998	462	0.81		
3.3	14024	432	0.87		
3.9	12109	373	1.01		
4.4	10713	330	1.14	R 147R87	4
5.1	9187	283	1.33	RF147R87	4
5.8	8116	250	1.51		
6.7	7012	216	1.74		
7.5	6201	191	1.97		

R

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
5.5kW					
3.7	12752	196.41	1.32		
4.5	10440	160.80	1.63	R 167	8
5.5	8469	130.44	1.99	RF167	8
6.0	7855	120.99	2.17		
6.9	6779	104.41	2.50		
4.4	10613	163.46	1.15		
4.9	9534	146.85	1.28	R 147	8
6.0	7742	119.24	1.57	RF147	8
6.6	7144	110.03	1.72		
5.9	7960	163.46	1.54		
6.5	7151	146.85	1.71	R 147	6
8.0	6133	119.24	2.0	RF147	6
8.8	5659	110.03	2.2		
10	4865	94.60	2.5		
12	4293	83.47	2.8		
5.6	8790	128.18	0.86		
6.3	7798	113.72	0.96	R 137	8
7.0	7077	103.2	1.06	RF137	8
8.1	6083	88.70	1.24		
5.5	8970	174.40	0.84		
6.1	8039	156.31	0.94		
6.8	7258	141.12	1.04	R 137	6
7.5	6592	128.18	1.14	RF137	6
8.4	5849	113.72	1.29		
9.3	5308	103.20	1.42		
6.4	7658	223.34	0.98		
7.7	6451	188.16	1.17		
8.3	5980	174.40	1.26		
9.2	5359	156.31	1.40		
10	4839	141.12	1.55		
11	4395	128.18	1.71		
13	3899	113.72	1.93	R 137	4
14	3538	103.20	2.1	RF137	4
16	3041	88.70	2.5		
18	2774	80.91	2.7		
20	2520	73.49	3.0		
22	2236	65.20	3.4		
24	2029	59.17	3.7		
28	1744	50.86	4.3		
11	4305	125.55	0.94		
13	3898	113.70	1.04		
14	3457	100.82	1.17		
16	3126	91.16	1.29		
19	2649	77.26	1.54	R 107	4
20	2469	72.00	1.64	RF107	4
22	2222	64.84	1.82		
25	2012	58.69	2.01		
28	1785	52.05	2.3		
31	1614	47.06	2.5		
36	1367	39.88	3.0		
17	2851	83.15	0.99		
20	2475	72.17	1.14		
22	2233	65.12	1.26		
24	2052	59.84	1.37		
27	1822	53.14	1.55	R 97	4
30	1629	47.51	1.73	RF97	4
34	1465	42.72	1.93		
39	1271	37.08	2.2		
43	1138	33.20	2.4		
52	944	27.54	2.7		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
5.5kW					
45	1105	32.22	2.2		
54	920	26.84	2.6		
58	858	25.03	3.1	R 97	4
64	767	22.37	3.3	RF97	4
71	691	20.14	3.6		
79	625	18.24	3.8		
89	554	16.17	4.1		
30	1627	47.45	0.90		
35	1427	41.63	1.02		
39	1259	36.73	1.16		
44	1117	32.57	1.30		
52	955	27.84	1.53		
53	954	27.81	1.53		
62	802	23.40	1.82	R 87	4
67	738	21.51	2.0	RF87	4
75	655	19.10	2.1		
84	586	17.08	2.2		
94	526	15.35	2.4		
108	457	13.33	2.6		
121	409	11.93	2.8		
145	339	9.90	3.3		
156	317	9.25	3.6		
173	285	8.32	3.8		
199	248	7.22	4.1		
77	645	18.80	1.14		
81	611	17.82	1.20		
92	535	15.60	1.30		
102	482	14.05	1.40		
117	423	12.33	1.53	R 77	4
132	373	10.88	1.66	RF77	4
149	331	9.64	1.79		
171	289	8.42	2.1		
190	260	7.59	2.2		
216	228	6.66	2.4		
245	202	5.88	2.52		
276	179	5.21	2.68		
91	541	15.79	0.97		
97	511	14.91	1.01		
113	435	12.70	1.12		
125	396	11.54	1.19		
144	343	10.00	1.29	R 67	4
166	298	8.70	1.34	RF67	4
185	267	7.79	1.38		
196	252	7.36	1.39		
230	215	6.27	1.44		
253	195	5.70	1.49		
292	169	4.93	1.61		
336	147	4.29	1.73		
97	506	14.77	0.81		
103	478	13.95	0.85		
121	407	11.88	0.93		
133	370	10.79	0.99		
154	321	9.35	1.08	R 57	4
181	273	7.97	1.22	RF57	4
191	258	7.53	1.27		
225	220	6.41	1.43		
247	200	5.82	1.51		
285	173	5.05	1.66		
328	151	4.39	1.75		
297	166	4.85	0.85	R 47	4
332	149	4.34	0.92	RF47	4
376	131	3.83	1.03		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
5.5kW					
116	443	6.22	3.79	RX 157 RXF157	8 8
123	420	5.88	2.64	RX 127 RXF127	8 8
147	350	6.47	3.18	RX 127 RXF127	6 6
164	315	5.88	3.53		
182	283	5.28	3.92		
217	238	6.65	1.82		
257	200	5.60	2.14	RX 107 RXF107	4 4
277	186	5.19	3.52		
310	166	4.65	3.93		
247	208	5.82	1.9		
297	173	4.85	2.1		
319	162	4.52	3.5		
356	144	4.04	3.9		
396	130	3.64	4.3		
436	118	3.30	4.7	RX 97 RXF97	4 4
493	104	2.92	5.4		
545	94	2.64	5.9		
643	80	2.24	7.0		
735	70	1.96	7.6		
878	59	1.64	8.1		
1014	51	1.42	8.4		
320	161	4.50	1.7		
381	135	3.78	2.1		
414	124	3.48	3.1	RX 87 RXF87	4 4
466	110	3.09	3.4		
522	99	2.76	3.9		
581	89	2.48	4.3		
670	77	2.15	4.7		
443	116	3.25	1.47		
468	110	3.08	1.65		
533	97	2.70	2.1		
593	87	2.43	2.3	RX 77 RXF77	4 4
676	76	2.13	2.5		
766	67	1.88	2.6		
862	60	1.67	2.7		
1014	51	1.42	2.9		
567	91	2.54	1.22		
600	86	2.40	1.35		
706	73	2.04	1.73	RX 67 RXF67	4 4
774	66	1.86	1.78		
894	58	1.61	1.86		
1029	50	1.40	2.0		
706	73	2.04	0.89		
750	69	1.92	0.95	RX 57 RXF57	4 4
873	59	1.65	1.10		
973	53	1.48	1.21		
1108	46	1.30	1.27		
7.5kW					
2.9	22268	510	0.80		
3.3	19124	438	0.88	R 167R97 RF167R97	4 4
3.8	16591	380	1.02		
4.3	14758	338	1.15		
4.8	13404	307	1.26		
5.2	12313	282	1.37		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
7.5kW					
4.4	14408	330	0.85		
5.2	12356	283	0.99		
5.8	10915	250	1.12	R 147R87 RF147R87	4 4
6.8	9431	216	1.30		
7.6	8339	191	1.47		
9.1	7030	161	1.74		
3.7	18366	196.41	0.92		
4.5	15036	160.80	1.13	R 167 RF167	4 4
5.5	12197	130.44	1.39		
6.0	11314	120.99	1.50		
6.9	9763	104.41	1.73		
4.9	13775	196.41	1.23		
6.0	11277	160.80	1.50		
7.4	9145	130.44	1.84		
7.9	8485	120.99	1.99		
9.2	7323	104.41	2.31	R 167 RF167	6 6
10	6462	92.14	2.6		
12	5602	79.88	3.0		
14	4984	71.07	3.4		
15	4487	63.98	3.8		
16	4103	58.51	4.1		
4.4	15285	163.46	0.80		
4.9	13732	146.85	0.89	R 147 RF147	8 8
6.0	11150	119.24	1.09		
6.6	10289	110.03	1.20		
5.9	11464	163.46	1.07		
6.5	10299	146.85	1.19		
8.0	8363	119.24	1.45	R 147 RF147	6 6
8.8	7717	110.03	1.59		
10	6635	94.60	1.84		
12	5854	83.47	2.1		
7.7	8677	188.16	0.87		
8.4	8042	174.40	0.94		
9.3	7208	156.31	1.04		
10	6508	141.12	1.16		
11	5911	128.18	1.27	R 137 RF137	4 4
13	5244	113.72	1.43		
14	4759	103.20	1.58		
16	4090	88.70	1.84		
18	3731	80.91	2.0		
20	3389	73.49	2.2		
22	3007	65.20	2.5		
25	2729	59.17	2.8		
29	2345	50.86	3.2		
16	4204	91.16	0.96		
19	3563	77.26	1.13		
20	3320	72.00	1.22		
23	2989	64.81	1.35		
25	2706	58.69	1.49		
28	2400	52.05	1.68	R 107 RF107	4 4
31	2170	47.06	1.86		
37	1839	39.88	2.2		
42	1607	34.84	2.5		
48	1404	30.44	2.9		
50	1344	29.14	3.0		
54	1257	27.25	3.2		
59	1134	24.60	3.6		
65	1030	22.34	3.9		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
7.5kW					
24	2760	59.84	1.02	R 97 RF97	4 4
27	2451	53.14	1.15		
31	2191	47.51	1.29		
34	1970	42.72	1.43		
39	1710	37.08	1.65		
44	1531	33.20	1.72		
45	1486	32.22	1.77		
53	1270	27.54	1.94		
54	1238	26.84	1.98		
58	1154	25.03	2.30		
65	1032	22.37	2.48		
72	929	20.14	2.64		
80	841	18.24	2.79		
40	1694	36.73	0.86	R 87 RF87	4 4
45	1502	32.57	0.97		
52	1284	27.84	1.13		
53	1282	27.81	1.1		
62	1079	23.40	1.35		
68	992	21.51	1.42		
76	881	19.10	1.54		
85	788	17.08	1.66		
95	708	15.35	1.78		
110	615	13.33	1.96		
122	550	11.93	2.1		
147	457	9.90	2.4		
158	427	9.25	2.7		
175	384	8.32	2.8		
202	333	7.22	3.0		
226	298	6.47	3.2		
272	247	5.36	3.5		
78	867	18.80	0.85	R 77 RF77	4 4
82	822	17.82	0.89		
94	719	15.60	0.97		
104	648	14.05	1.04		
118	569	12.33	1.14		
134	502	10.88	1.24		
151	445	9.64	1.33		
173	388	8.42	1.53		
192	350	7.59	1.64		
219	307	6.66	1.78		
248	271	5.88	1.87		
280	240	5.21	2.00		
115	586	12.70	0.83	R 67 RF67	4 4
127	532	11.54	0.88		
146	461	10.00	0.96		
168	401	8.70	0.99		
187	359	7.79	1.02		
198	339	7.36	1.03		
233	289	6.27	1.07		
256	263	5.70	1.11		
296	227	4.93	1.20		
340	198	4.29	1.28		
183	368	7.97	0.91	R 57 RF57	4 4
194	347	7.53	0.95		
228	296	6.41	1.07		
251	268	5.82	1.12		
289	233	5.05	1.23		
333	202	4.39	1.30		
123	572	5.88	1.94	RX 127 RXF127	8 8
156	449	6.22	3.74	RX 157 RXF157	6 6

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
7.5kW					
123	572	5.88	2.94	RX 127 RXF127	6 6
136	515	5.28	3.26		
167	420	4.29	4.0		
221	318	6.47	3.49	RX 127 RXF127	4 4
245	286	5.88	3.88		
220	320	6.65	1.35	RX 107 RXF107	4 4
260	269	5.60	1.59		
281	250	5.19	2.6		
314	224	4.65	2.9		
348	202	4.20	3.9		
251	280	5.82	1.41	RX 97 RXF97	4 4
301	233	4.85	1.59		
323	217	4.52	2.6		
361	194	4.04	2.9		
401	175	3.64	3.2		
442	159	3.30	3.5		
500	140	2.92	4.0		
324	216	4.50	1.26	RX 87 RXF87	4 4
386	182	3.78	1.58		
420	167	3.48	2.3		
472	149	3.09	2.6		
529	133	2.76	2.9		
589	119	2.48	3.2		
679	103	2.15	3.5		
756	93	1.93	3.6		
913	77	1.60	3.8		
1050	67	1.39	4.1		
449	156	3.25	1.09	RX 77 RXF77	4 4
474	148	3.08	1.23		
541	130	2.70	1.56		
601	117	2.43	1.73		
685	102	2.13	1.84		
777	90	1.88	1.94		
874	80	1.67	2.0		
1028	68	1.42	2.1		
575	122	2.54	0.91	RX 67 RXF67	4 4
608	115	2.40	1.00		
716	98	2.04	1.28		
785	89	1.86	1.32		
907	77	1.61	1.38		
1043	67	1.40	1.45		
11kW					
4.9	18891	295	0.90	R 167R107 RF167R107	4 4
5.1	18379	287	0.92		
5.2	17994	281	0.94		
6.1	15241	238	1.11		
7.0	13320	208	1.27		
8.3	11271	176	1.50		
4.3	21645	338	0.80	R 167R97 RF167R97	4 4
4.8	19659	307	0.86		
5.2	18059	282	0.94		
5.8	16009	250	0.80	R 147R87 RF147R87	4 4
6.8	13832	216	0.88		
7.6	12231	191	1.00		
9.1	10310	161	1.19		
9.2	10182	159	1.20		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
11kW					
6.0	16540	160.80	1.02		
7.4	13417	130.44	1.26	R 167	6
7.9	12445	120.99	1.36	RF167	6
9.2	10740	104.41	1.58		
7.4	13284	196.41	1.27		
9.1	10876	160.80	1.56		
11	8822	130.44	1.91		
12	8183	120.99	2.07	R 167	4
14	7062	104.41	2.4	RF167	4
16	6232	92.14	2.7		
18	5403	79.88	3.1		
21	4807	71.07	3.5		
6.5	15105	146.85	0.81		
8.1	12265	119.24	1.0	R 147	6
8.7	11318	110.03	1.08	RF147	6
10	9731	94.60	1.26		
12	8586	83.47	1.42		
8.9	11056	163.46	1.11		
10	9932	146.85	1.23		
12	8065	119.24	1.52		
13	7442	110.03	1.64	R 147	4
15	6398	94.60	1.91	RF147	4
17	5645	83.47	2.2		
20	4876	72.09	2.5		
22	4508	66.65	2.7		
24	4129	61.50	3.0		
28	3576	52.87	3.4		
10	9545	141.12	0.80		
11	8669	128.18	0.87		
13	7691	113.72	0.98		
14	6980	103.2	1.08		
16	5999	88.70	1.25		
18	5472	80.91	1.37	R 137	4
20	4970	73.49	1.51	RF137	4
22	4410	65.20	1.71		
25	4002	59.17	1.88		
29	3440	50.86	2.2		
33	3002	44.39	2.5		
39	2540	37.65	3.0		
44	2226	32.91	3.4		
23	4383	64.81	0.92		
25	3969	58.69	1.02		
28	3520	52.05	1.15		
31	3183	47.06	1.27		
37	2697	39.88	1.50		
42	2356	34.84	1.72	R 107	4
48	2059	30.44	1.96	RF107	4
50	1971	29.14	2.1		
54	1843	27.25	2.2		
59	1664	24.60	2.4		
65	1511	22.34	2.7		
74	1341	19.82	3.0		
81	1217	17.99	3.3		
34	2889	42.72	0.98		
39	2508	37.08	1.12		
44	2245	33.20	1.21		
53	1863	27.54	1.35		
58	1693	25.03	1.57	R 97	4
65	1513	22.37	1.69	RF97	4
72	1362	20.14	1.80		
80	1234	18.24	1.90		
90	1094	16.17	2.1		
100	989	14.62	2.2		
118	838	12.39	2.5		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
11kW					
135	732	10.83	2.7		
158	626	9.26	3.0	R 97	4
174	566	8.37	3.4	RF97	4
206	480	7.09	3.9		
235	419	6.20	4.2		
68	1455	21.51	0.97		
76	1292	19.10	1.05		
85	1155	17.08	1.13		
95	1038	15.35	1.21		
110	902	13.33	1.33		
122	807	11.93	1.43	R 87	4
147	670	9.90	1.66	RF87	4
158	626	9.25	1.82		
175	563	8.32	1.94		
202	488	7.22	2.1		
226	438	6.47	2.2		
272	363	5.36	2.4		
134	736	10.88	0.84		
151	652	9.64	0.91		
192	513	7.59	1.12	R 77	4
219	450	6.66	1.21	RF77	4
248	398	5.88	1.28		
280	352	5.21	1.36		
191	539	5.05	3.12	RX 157	6
209	492	4.68	3.41	RXF157	6
240	429	4.04	3.92		
235	437	6.22	3.84	RX 157	4
				RXF157	4
249	414	5.88	2.68		
277	372	5.28	2.98	RX 127	4
339	304	4.29	3.65	RXF127	4
372	277	3.95	4.01		
281	366	5.19	1.79		
314	328	4.65	1.99		
348	296	4.20	2.63	RX 107	4
383	269	3.81	2.90	RXF107	4
432	238	3.38	3.27		
476	216	3.07	3.60		
553	186	2.64	4.19		
323	319	4.52	1.75		
361	285	4.04	1.96		
401	257	3.64	2.2		
442	233	3.30	2.4		
500	206	2.92	2.7	RX 97	4
553	186	2.64	3.0	RXF97	4
652	158	2.24	3.5		
745	138	1.96	3.9		
890	116	1.64	4.1		
1028	110	1.42	4.3		
420	245	3.48	1.55		
472	218	3.09	1.75		
529	195	2.76	1.96		
589	175	2.48	2.2	RX 87	4
679	152	2.15	2.4	RXF87	4
756	136	1.93	2.5		
913	113	1.60	2.6		
1050	98	1.39	2.8		
601	171	2.43	1.18		
685	150	2.13	1.25	RX 77	4
777	133	1.88	1.33	RXF77	4
874	118	1.67	1.38		
1028	100	1.42	1.46		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
15kW					
6.1	20783	238	0.81		
6.5	19560	224	0.87	R 167R107	4
7.0	18163	208	0.93	RF167R107	4
7.5	17028	195	0.99		
8.3	15369	176	1.10		
7.4	18201	130.44	0.93		
8.0	16883	120.99	1.00	R 167	6
9.2	14569	104.41	1.16	RF167	6
11	12857	92.14	1.32		
7.4	18115	196.41	0.93		
9.1	14830	160.80	1.14		
11	12030	130.44	1.41		
12	11159	120.99	1.52		
14	9630	104.41	1.76	R 167	4
16	8498	92.14	1.99	RF167	4
18	7367	79.88	2.3		
21	6555	71.07	2.6		
23	5901	63.98	2.9		
25	5396	58.51	3.1		
8.8	15353	110.03	0.80		
10	13200	94.60	0.93	R 147	6
12	11647	83.47	1.05	RF147	6
13	10059	72.09	1.21		
14	9300	66.65	1.31		
8.9	15076	163.46	0.81		
9.9	13544	146.86	0.90		
12	10997	119.24	1.11		
13	10148	110.03	1.20		
15	8725	94.60	1.40	R 147	4
17	7698	83.47	1.59	RF147	4
20	6649	72.09	1.84		
22	6147	66.65	1.99		
24	5631	61.50	2.2		
28	4876	52.87	2.5		
31	4303	46.65	2.8		
14	9518	103.2	0.8		
16	8181	88.70	0.92		
18	7462	80.91	1.01		
20	6778	73.49	1.11		
22	6013	65.20	1.25		
25	5457	59.17	1.38	R 137	4
29	4691	50.86	1.60	RF137	4
33	4094	44.39	1.84		
39	3472	37.65	2.2		
44	3035	32.91	2.5		
52	2567	27.83	2.9		
31	4340	47.06	0.9		
37	3678	39.88	1.10		
42	3213	34.84	1.26		
48	2807	30.44	1.44		
50	2688	29.14	1.50	R 107	4
54	2513	27.25	1.61	RF107	4
59	2269	24.60	1.78		
65	2060	22.34	1.96		
74	1828	19.82	2.2		
81	1659	17.99	2.4		
94	1426	15.46	2.8		
108	1245	13.50	3.2		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
15kW					
53	2540	27.54	1.1		
58	2309	25.03	1.15		
65	2063	22.37	1.24		
72	1858	20.14	1.32		
80	1682	18.24	1.40		
90	1491	16.17	1.51	R 97	4
100	1348	14.62	1.6	RF97	4
118	1143	12.39	1.8		
135	999	10.83	2.0		
158	854	9.26	2.4		
174	772	8.37	2.5		
206	654	7.09	2.9		
235	572	6.20	3.1		
85	1575	17.08	0.89		
95	1416	15.35	0.98		
110	1229	13.33	1.05		
122	1100	11.93	1.13	R 87	4
147	913	9.90	1.21	RF87	4
158	853	9.25	1.33		
175	767	8.32	1.42		
202	666	7.22	1.51		
226	597	6.47	1.61		
272	494	5.36	1.73		
287	488	5.05	3.44	RX 157	4
315	446	4.68	3.77	RXF157	4
361	388	4.04	3.32		
372	378	3.95	2.94	RX 127	4
				RXF127	4
281	479	5.19	1.36		
314	429	4.65	1.52		
348	387	4.20	2.0		
383	351	3.81	2.2		
432	325	3.38	2.4	RX 107	4
476	295	3.07	2.6	RXF107	4
553	254	2.64	3.1		
635	221	2.30	3.5		
749	188	1.95	3.8		
854	164	1.71	4.0		
1014	138	1.44	4.4		
323	435	4.52	1.3		
361	388	4.04	1.4		
401	350	3.64	1.6		
442	317	3.30	1.8		
500	281	2.92	2.0	RX 97	4
553	254	2.64	2.2	RXF97	4
652	215	2.24	2.6		
745	188	1.96	2.8		
890	158	1.64	3.0		
1028	137	1.42	3.1		
420	335	3.48	1.14		
472	297	3.09	1.28		
529	265	2.76	1.43		
589	238	2.48	1.60	RX 87	4
679	207	2.15	1.75	RXF87	4
756	186	1.93	1.80		
913	154	1.60	1.92		
1050	134	1.39	2.0		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
18.5kW					
9.1	18291	160.80	0.93		
11	14838	130.44	1.13		
12	13763	120.99	1.24		
14	11877	104.41	1.42		
16	10481	92.14	1.61	R 167 RF167	4 4
18	9086	79.88	1.86		
21	8084	71.07	2.1		
23	7278	63.98	2.3		
25	6655	58.51	2.5		
29	5791	50.91	2.9		
12	13564	119.24	0.90		
13	12516	110.03	0.98		
15	10761	94.60	1.14		
17	9495	83.47	1.29		
20	8200	72.09	1.49		
22	7581	66.65	1.61	R 147 RF147	4 4
24	6944	61.50	1.76		
28	6014	52.87	2.0		
31	5306	46.65	2.3		
36	4583	40.29	2.7		
18	9203	80.91	0.82		
20	8359	73.49	0.90		
22	7416	65.20	1.01		
25	6731	59.17	1.12		
29	5785	50.86	1.30		
33	5049	44.39	1.49		
39	4283	37.65	1.76	R 137 RF137	4 4
44	3744	32.91	2.0		
49	3362	29.56	2.2		
52	3166	27.83	2.3		
61	2730	24.00	2.7		
66	2520	22.15	3.0		
77	2166	19.04	3.5		
87	1911	16.80	3.9		
37	4536	39.88	0.89		
42	3963	34.84	1.02		
50	3315	29.14	1.22		
59	2798	24.60	1.44		
65	2541	22.34	1.59		
74	2255	19.82	1.79		
81	2046	17.99	1.98	R 107 RF107	4 4
94	1759	15.46	2.3		
108	1536	13.50	2.3		
128	1302	11.45	3.1		
146	1139	10.01	3.5		
181	918	8.07	3.0		
213	778	6.84	3.6		
72	2291	20.14	1.07		
80	2075	18.24	1.13		
90	1839	16.17	1.23		
100	1663	14.62	1.30		
118	1409	12.39	1.46		
135	1232	10.83	1.59	R 97 RF97	4 4
158	1053	9.26	1.81		
174	952	8.37	2.0		
206	806	7.09	2.3		
235	705	6.20	2.5		
282	589	5.18	2.8		
328	511	4.49	3.0		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
18.5kW					
110	1516	13.33	0.8		
122	1357	11.93	0.85		
147	1126	9.90	0.98		
158	1052	9.25	1.08	R 87 RF87	4 4
175	946	8.32	1.15		
202	821	7.22	1.22		
226	736	6.47	1.30		
272	610	5.36	1.40		
317	547	4.68	3.07	RX 157 RXF157	4 4
364	476	4.04	3.53		
412	420	3.57	4.0		
348	478	4.20	1.63		
383	452	3.81	1.73		
432	401	3.38	1.95		
476	364	3.07	2.1		
553	313	2.64	2.5	RX 107 RXF107	4 4
635	273	2.30	2.9		
749	231	1.95	3.1		
854	203	1.71	3.3		
1014	171	1.44	3.6		
401	432	3.64	1.30		
442	391	3.30	1.43		
500	346	2.92	1.62		
553	313	2.64	1.79	RX 97 RXF97	4 4
652	266	2.24	2.1		
745	232	1.96	2.3		
890	194	1.64	2.4		
1028	168	1.42	2.5		
529	327	2.76	1.16		
589	294	2.48	1.29		
679	255	2.15	1.42	RX 87 RXF87	4 4
756	229	1.93	1.46		
913	190	1.60	1.56		
1050	165	1.39	1.65		
22kW					
11	17645	130.44	0.95		
12	16366	120.99	1.04		
14	14124	104.41	1.20		
16	12464	92.14	1.36		
18	10805	79.88	1.57		
21	9614	71.07	1.76	R 167 RF167	4 4
23	8655	63.98	2.0		
25	7915	58.51	2.1		
29	6887	50.91	2.5		
32	6078	44.93	2.8		
37	5269	38.95	3.2		
13	14884	110.03	0.83		
15	12797	94.60	0.95		
17	11291	83.47	1.08		
20	9752	72.09	1.3		
22	9016	66.65	1.36	R 147 RF147	4 4
24	8258	61.50	1.48		
28	7152	52.87	1.71		
31	6310	46.65	1.94		
36	5450	40.29	2.2		
41	4821	35.64	2.5		
49	4051	29.95	3.0		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
22kW					
22	8820	65.20	0.85		
25	8004	59.17	0.94		
29	6880	50.86	1.09		
33	6005	44.39	1.25		
39	5093	37.65	1.48		
44	4452	32.91	1.69	R 137	4
49	3999	29.56	1.88	RF137	4
52	3765	27.83	2.00		
61	3246	24.00	2.3		
66	2996	22.15	2.5		
77	2576	19.04	2.9		
87	2273	16.80	3.3		
101	1963	14.51	3.8		
114	1736	12.83	4.3		
42	4713	34.84	0.86		
50	3942	29.14	1.03		
59	3328	24.60	1.21		
65	3022	22.34	1.34		
74	2681	19.82	1.51		
81	2434	17.99	1.66		
94	2091	15.46	1.93	R 107	4
108	1826	13.50	2.2	RF107	4
128	1549	11.45	2.6		
146	1354	10.01	2.7		
173	1144	8.46	2.9		
181	1092	8.07	3.0		
213	925	6.84	3.2		
244	809	5.98	3.5		
72	2724	20.14	1.04		
80	2467	18.24	1.14		
90	2187	16.17	1.23		
100	1978	14.62	1.29		
118	1676	12.39	1.34		
135	1465	10.83	1.43	R 97	4
158	1253	9.26	1.52	RF97	4
174	1132	8.37	1.69		
206	959	7.09	1.96		
235	839	6.20	2.1		
282	701	5.18	2.4		
325	607	4.49	2.5		
147	1339	9.90	0.83		
158	1251	9.25	0.91		
175	1125	8.32	0.97	R 87	4
202	977	7.22	1.03	RF87	4
226	875	6.47	1.10		
272	725	5.36	1.18		
412	500	3.57	3.36	RX 157	4
				RXF157	4
348	592	4.20	1.32		
383	537	3.81	1.45		
432	477	3.38	1.64		
476	433	3.07	1.80		
553	372	2.64	2.10	RX 107	4
635	324	2.30	2.41	RXF107	4
749	275	1.95	2.61		
854	241	1.71	2.75		
1014	203	1.44	2.99		
401	513	3.64	1.09		
442	465	3.30	1.20	RX 97	4
500	412	2.92	1.36	RXF97	4
553	372	2.64	1.50		

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
22kW					
652	316	2.24	1.77		
745	276	1.96	1.94	RX 97	4
890	231	1.64	2.05	RXF97	4
1028	200	1.42	2.14		
529	389	2.76	0.98		
589	350	2.48	1.09		
679	303	2.15	1.19	RX 87	4
756	272	1.93	1.23	RXF87	4
913	226	1.60	1.31		
1050	196	1.39	1.39		
30kW					
16	16996	92.14	1.0		
18	14735	79.88	1.15		
21	13109	71.07	1.29		
23	11802	63.98	1.43		
25	10793	58.51	1.57	R 167	4
29	9391	50.91	1.80	RF167	4
32	8288	44.93	2.04		
37	7185	38.95	2.4		
42	6393	34.66	2.6		
49	5510	29.87	3.1		
60	4477	24.27	3.8		
71	3796	20.58	4.5		
17	15397	83.47	0.8		
20	13298	72.09	0.92		
22	12294	66.65	0.99		
24	11261	61.50	1.09		
28	9752	52.87	1.25		
31	8605	46.65	1.42	R 147	4
36	7432	40.29	1.64	RF147	4
41	6574	35.64	1.86		
49	5525	29.95	2.2		
60	4462	24.19	2.5		
71	3770	20.44	3.0		
81	3328	18.04	3.0		
93	2885	15.64	4.2		
29	9382	50.86	0.80		
33	8188	44.39	0.92		
39	6945	37.65	1.08		
44	6071	32.91	1.24		
52	5133	27.83	1.41		
61	4427	24.00	1.69		
66	4086	22.15	1.85	R 137	4
77	3512	19.04	2.1	RF137	4
87	3099	16.80	2.4		
101	2676	14.51	2.8		
114	2367	12.83	3.2		
135	1990	10.79	3.8		
192	1400	7.59	3.4		
229	1177	6.38	4.1		
74	3656	19.82	1.11		
81	3318	17.99	1.22		
94	2852	15.46	1.42		
108	2490	13.50	1.62		
128	2112	11.45	1.88	R 107	4
146	1846	10.01	1.91	RF107	4
173	1561	8.46	2.2		
181	1489	8.07	2.2		
213	1262	6.84	2.5		
244	1103	5.98	2.6		
289	933	5.06	2.9		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
30kW					
100	2697	14.62	0.80		
118	2285	12.39	0.90		
135	1998	10.83	0.98		
158	1708	9.26	1.12	R 97	4
174	1544	8.37	1.24	RF97	4
206	1308	7.09	1.44		
235	1144	6.20	1.55		
282	955	5.18	1.75		
325	828	4.49	1.85		
432	649	3.40	1.71	RX 127	4
				RXF127	4
432	623	3.38	1.25		
476	566	3.07	1.38		
553	487	2.64	1.60	RX 107	4
635	424	2.30	1.84	RXF107	4
749	360	1.95	2.0		
854	315	1.71	2.1		
1014	266	1.44	2.3		
500	539	2.92	1.04		
553	487	2.64	1.15		
652	413	2.24	1.35	RX 97	4
745	362	1.96	1.48	RXF97	4
890	303	1.64	1.57		
1028	262	1.42	1.63		
37kW					
18	18049	79.88	0.94		
21	16058	71.07	1.05		
23	14456	63.98	1.17		
25	13220	58.51	1.28		
29	11503	50.91	1.47		
33	10152	44.93	1.67	R 167	4
38	8801	38.95	1.92	RF167	4
42	7831	34.66	2.16		
49	6749	29.87	2.5		
61	5484	24.27	3.1		
78	4232	18.73	4.0		
90	3685	16.31	4.6		
101	3290	14.56	5.1		
22	15060	66.65	0.81		
24	13794	61.50	0.89		
28	11946	52.87	1.02		
32	10541	46.65	1.16		
36	9104	40.29	1.34	R 147	4
41	8053	35.64	1.52	RF147	4
49	6767	29.95	1.81		
61	5466	24.19	2.0		
72	4618	20.44	2.4		
81	4076	18.04	2.4		
94	3534	15.64	3.5		
106	3143	13.91	3.8		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
37kW					
39	8507	37.65	0.88		
45	7436	32.91	1.01		
53	6288	27.83	1.20		
61	5423	24.00	1.38		
67	5005	22.15	1.51		
77	4302	19.04	1.75	R 137	4
88	3796	16.80	1.98	RF137	4
101	3279	14.51	2.3		
115	2899	12.83	2.6		
136	2438	10.79	2.8		
169	1968	8.71	3.1		
194	1715	7.59	3.3		
230	1442	6.38	3.7		
285	1164	5.15	3.7		
74	4478	19.82	0.90		
82	4065	17.99	0.99		
95	3493	15.46	1.16		
109	3050	13.50	1.33		
128	2587	11.45	1.50		
147	2262	10.01	1.56	R 107	4
174	1912	8.46	1.79	RF107	4
182	1823	8.07	1.8		
215	1546	6.84	2.1		
246	1351	5.98	2.1		
291	1143	5.06	2.4		
432	801	3.40	1.39		
490	707	3.00	1.57	RX 127	4
568	610	2.59	1.82	RXF127	4
435	796	3.38	0.98		
479	723	3.07	1.08		
557	622	2.64	1.25	RX 107	4
639	542	2.30	1.44	RXF107	4
754	459	1.95	1.57		
860	403	1.71	1.65		
1021	339	1.44	1.79		
45kW					
23	17463	63.98	0.97		
25	15970	58.51	1.06		
29	13896	50.91	1.22		
33	12264	44.93	1.38		
38	10631	38.95	1.59		
43	9460	34.66	1.79	R 167	4
50	8153	29.87	2.08	RF167	4
61	6624	24.27	2.4		
72	5617	20.58	2.6		
79	5112	18.73	3.0		
91	4452	16.31	3.4		
102	3974	14.56	3.5		
28	14431	52.87	0.85		
32	12733	46.65	0.96		
37	10997	40.29	1.11		
42	9728	35.64	1.26		
49	8175	29.95	1.49		
61	6603	24.19	1.69	R 147	4
72	5579	20.44	2.0	RF147	4
82	4924	18.04	2.0		
95	4269	15.64	2.9		
106	3797	13.91	3.2		
123	3273	11.99	3.7		
204	1979	7.25	4.1		

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p
90kW					
72	11158	20.44	1.01		
82	9848	18.04	1.10		
95	8538	15.64	1.43		
106	7593	13.91	1.56	R 147	4
123	6545	11.99	1.87	RF147	4
156	5170	9.47	2.1		
179	4509	8.26	2.4		
204	3958	7.25	2.5		
251	3215	5.89	2.7		
296	2729	5.00	3.0		
542	1555	2.75	1.08	RX 157	4
629	1340	2.37	1.25	RXF157	4
772	1091	1.93	1.54		
955	882	1.56	1.26	RX 127	4
				RXF127	4
110kW					
61	16193	24.27	1.04		
72	13731	20.58	1.23		
91	10882	16.31	1.38	R 167	4
102	9715	14.56	1.45	RF167	4
119	8280	12.41	2.04		
144	6859	10.28	2.3		
169	5851	8.77	2.7		
629	1638	2.37	1.03	RX 157	4
772	1334	1.93	1.26	RXF157	4
914	1126	1.63	1.49		
132kW					
72	16477	20.58	1.03		
91	13059	16.31	1.15		
102	11657	14.56	1.21	R 167	4
119	9936	12.41	1.70	RF167	4
144	8231	10.28	1.94		
169	7022	8.77	2.28		
914	1351	1.63	1.24	RX 157	4
				RXF157	4
160kW					
120	11963	12.41	1.41		
145	9910	10.28	1.61	R 167	4
170	8484	8.77	1.89	RF167	4

Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p

R

Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
130	8.5	164	R 27R17 RF27R17	0.18
	8.9	156		
	10	135		
	12	118		
	13	104		0.25
	15	90		
200	4.8	289	R 37R17 RF37R17	0.18
	5.7	243		
	6.2	226		
	7.5	185		
	8.5	164		0.25
	8.9	156		
	10	135		
	11	127		
	13	104		0.37
	15	90		
300	3.2	429	R 47R37 RF47R37	0.18
	3.7	372		
	4.0	348		
	4.6	301		
	5.5	255		0.25
	6.1	228		
450	2.1	678	R 57R37 RF57R37	0.18
	2.4	589		
	2.6	537		
	3.0	471		
	3.9	357		0.25
	4.4	319		
	5.2	267		0.37
	5.8	241		
600	1.7	836	R 67R37 RF67R37	0.18
	1.9	750		
	2.0	730		
	2.2	630		
	2.4	571		
	2.5	561		
	2.8	495		0.25
	2.9	486		
	3.2	438		
	3.6	388		
	4.1	336		0.37
	4.8	287		
820	1.2	1124	R 77R37 RF77R37	0.18
	1.3	1047		
	1.5	915		
	1.6	858		
	1.8	757		
	2.1	671		0.25
	2.4	571		
	2.5	547		
	2.9	477		0.37
	3.3	426		
	3.8	364		
	4.5	312		0.55
	4.5	310		
	5.6	248		
1550	0.65	2129	R 87R57 RF87R57	0.18
	0.71	1955		
	0.72	1930		
	0.79	1737		
	0.80	1733		

Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
1550	0.82	1690	R 87R57 RF87R57	0.18
	0.91	1524		
	1.0	1395		0.25
	1.1	1232		
	1.2	1145		
	1.3	1037		
	1.6	883		0.37
	1.7	802		
	1.8	754		
	1.4	1008		0.55
	2.0	683		
	2.3	599		
	2.6	538		
	2.9	472		
	3.4	400		0.75
	3.5	396		
	3.9	361		
	4.0	351		
	4.6	305		1.1
	4.7	300		
	5.2	267		
	5.5	256		
3000	0.32	4309	R 97R57 RF97R57	0.18
	0.35	4004		
	0.38	3702		
	0.40	3481		
	0.46	3019		
	0.52	2668		0.25
	0.62	2245		
	0.69	2016		
	0.76	1823		0.37
	0.80	1733		
	0.86	1623		
	0.88	1583		
	0.97	1434		
	1.00	1396		
	1.1	1228		0.55
	1.2	1207		
	1.3	1084		
	1.3	1068		
	1.5	937		
	1.5	934		
	1.6	878		
	1.7	824		0.75
	1.8	755		
	1.9	737		
	2.1	631		1.1
	2.2	625		
	2.5	549		
	2.6	560		
	2.9	484		
	3.2	430		1.5
	3.7	379		
	4.1	336		
	4.7	296		2.2
	5.1	270		
	5.6	249		
	5.9	234		
	6.1	227		

Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
4300	0.21	6690	R 107R77 RF107R77	0.18
	0.24	5735		
	0.27	5127		
	0.32	4302		
	0.36	3870		
	0.36	3847		0.25
	0.42	3302		
	0.46	3015		
	0.46	2997		
	0.53	2621		0.37
	0.62	2252		
	0.68	2041		
	0.71	1971		
	0.77	1813		0.55
	0.83	1673		
	0.88	1587		
	0.91	1531		
	1.00	1390		
	1.00	1389		
	1.14	1216		0.75
	1.2	1194		
	1.27	1095		
	1.3	1043		
	1.50	927		
	1.6	888		1.1
	1.7	787		
	2.0	692		
	2.3	605		1.5
	2.4	598		
	2.6	530		
	2.7	510		
	2.9	479		
	3.1	463		
	3.4	420		2.2
	3.5	406		
	3.8	373		
	4.0	357		
	4.5	321		
	4.6	313		
	5.1	281		3
	5.2	277		
	5.7	253		
	5.8	245		
	6.6	217		4
	6.9	208		
	7.5	191		
	7.9	181		
	8.6	167		
8000	0.12	11712	R 137R77 RF137R77	0.18
	0.13	10573		
	0.16	8784		
	0.19	7479		0.25
	0.22	6412		
	0.24	5834		
	0.28	5001		0.37
	0.30	4709		
	0.32	4364		

Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
8000	0.34	4018	R 137R77 RF137R77	0.37
	0.35	3928		
	0.40	3514		0.55
	0.41	3377		
	0.42	3338		
	0.47	2929		
	0.48	2926		
	0.52	2658		
	0.56	2484		
	0.58	2412		
	0.62	2242		0.75
	0.67	2073		
	0.75	1863		
	0.76	1839		
	0.88	1598		1.1
	1.0	1397		
	1.1	1226		
	1.3	1090		1.5
	1.3	1080		
	1.4	1020		
	1.5	951		
	1.6	869		
	1.7	831		2.2
	2.0	730		
	2.1	684		
	2.3	629		
	2.3	609		
	2.6	564		3
	2.6	549		
	2.8	517		
	2.9	490		
	3.2	453		
	3.4	428		4
	3.8	376		
	3.8	374		
	4.2	339		
	4.5	317		5.5
	4.8	297		
	5.0	286		
	5.8	250		
13000	0.08	18210	R 147R77 RF147R77	0.18
	0.09	15923		
	0.10	14075		
	0.12	12344		0.25
	0.13	11143		
	0.15	9743		
	0.17	8443		0.37
	0.20	7307		
	0.22	6447		
	0.26	5568		0.55
	0.30	4815		
	0.33	4325		
	0.39	3669		0.75
	0.44	3228		
	0.50	2833		

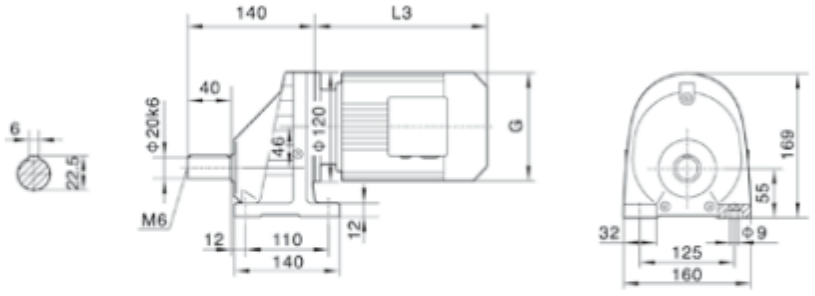
All gear units are overloaded in above table. Determination of operating torqueshould not higher than the gear unit's nominal torque.

Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
13000	0.56	2555	R 147R77 RF147R77	1.1
	0.65	2211		
	0.73	1951		
	0.84	1705		1.5
	0.93	1536		
	1.1	1329		2.2
	1.2	1166		
	1.4	1029		
	1.6	889		3
	1.8	784		
	2.1	695		4
	2.4	607		
	2.6	547		
	3.0	480		5.5
	2.7	540	R 147R87 RF147R87	4
	3.1	462		5.5
	3.3	432		
	3.9	373		7.5
	4.4	330		
	6.8	216		11
18000	0.05	27001	R 167R97 RF167R97	0.55
	0.06	22482		
	0.07	20002		
	0.08	17361		
	0.09	15446		
	0.10	14051		
	0.12	11812		
	0.13	10519		
	0.14	9754		
	0.23	6069		
	0.26	5399		0.75
	0.30	4709		
	0.33	4182		
	0.18	7749		1.1
	0.20	6894		
	0.37	3739		
	0.54	2657		1.5
	0.61	2333		
	0.69	2085		
	0.76	1877		2.2
	0.86	1670		
	0.98	1456		
	1.1	1296		3
	1.3	1137		
	1.4	1012		
	1.7	872		4
	1.9	770		
	2.2	664		5.5
	2.5	578		
	2.8	510		7.5
	3.3	438		
	3.8	380		
	4.3	338		
	4.8	307		11
	5.2	282		

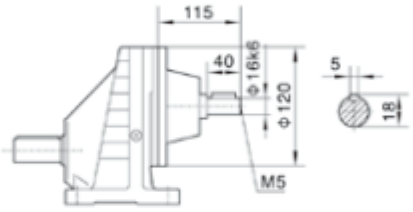
Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
	4.9	295	R 167R107 RF167R107	11
	5.1	287		
	5.2	281		
	5.6	260		15
	6.1	238		
	6.5	224		
	7.0	208		
	7.5	195		

All gear units are overloaded in above table. Determination of operating torque should not higher than the gear unit's nominal torque.

RX37

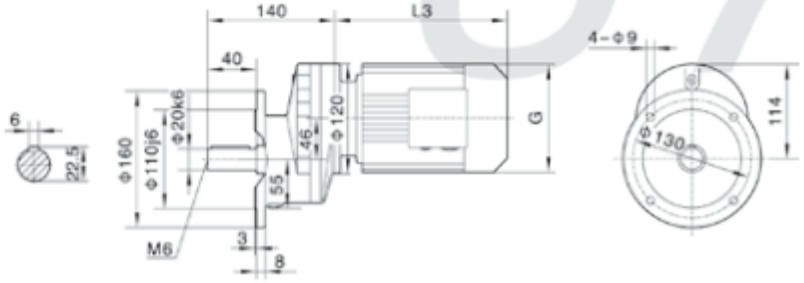


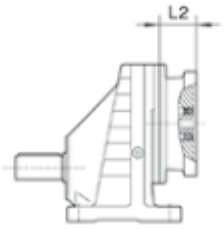
RX..S37



Customers provide the motor by themselves need connected flange.

RXF37





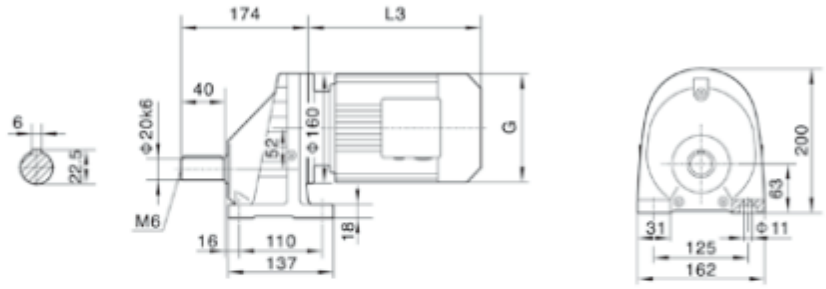
Note: For other values please refer to relevant structure.

Motor size	63	71		80		90S
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1
L3	223	236		264		301
G	130	145		175		195
L2	71	71		71		71

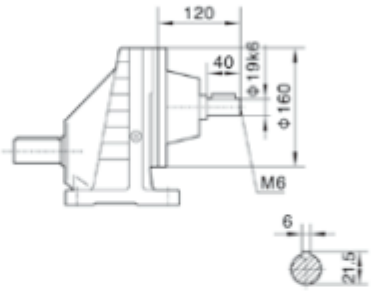
Note: "RX.." means RX, RXF.

R

RX57

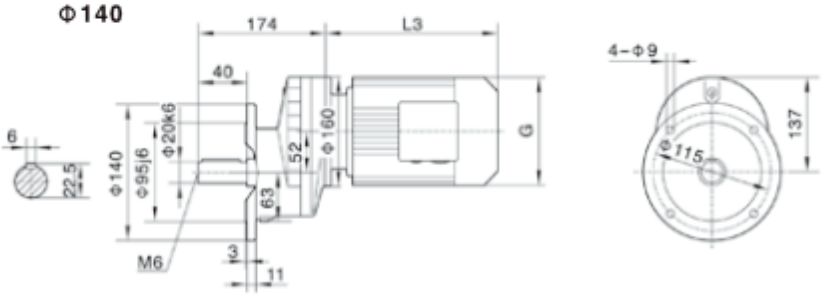


RX..S57

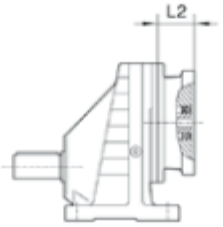


RXF57

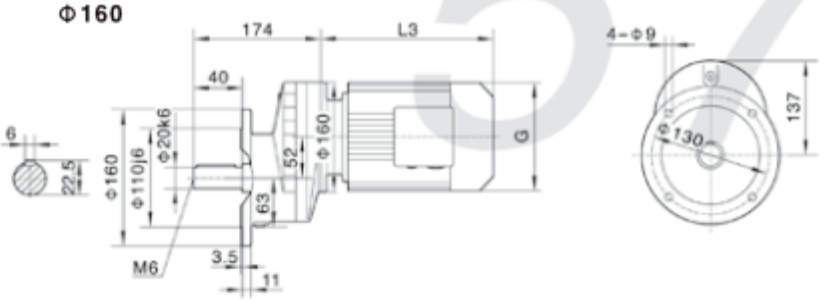
Φ140



Customers provide the motor by themselves need connected flange.

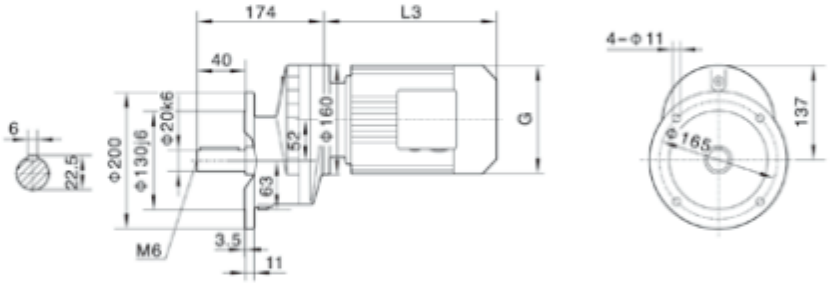


Φ160



Note: For other values please refer to relevant structure.

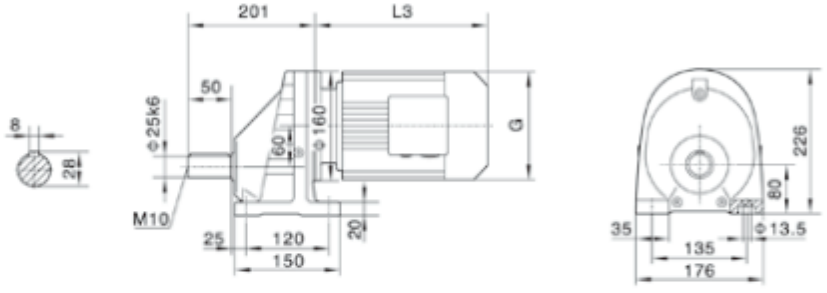
Φ200



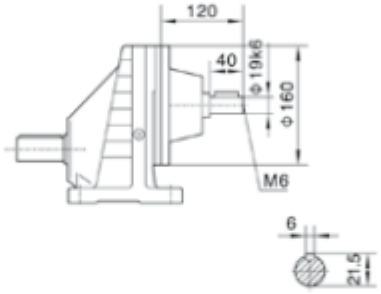
Motor size	63	71		80		90S	90L	100		112M	132S	
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	
L3	223	245		278		304	328	350		380	425	
G	130	145		175		195	195	215		240	275	
L2	81	81		81		81	81	93		93	101	

Note: "RX.." means RX, RXF.

RX67

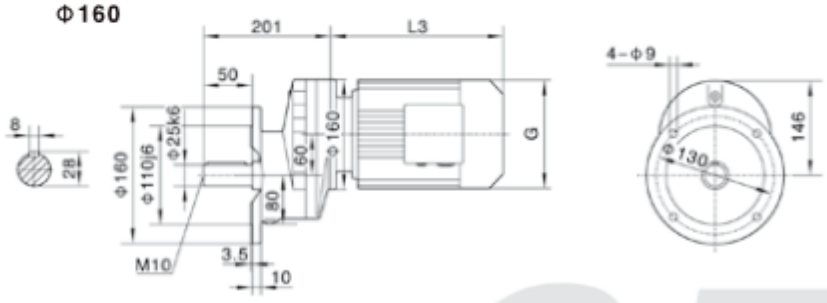


RX..S67

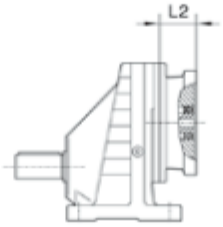


RXF67

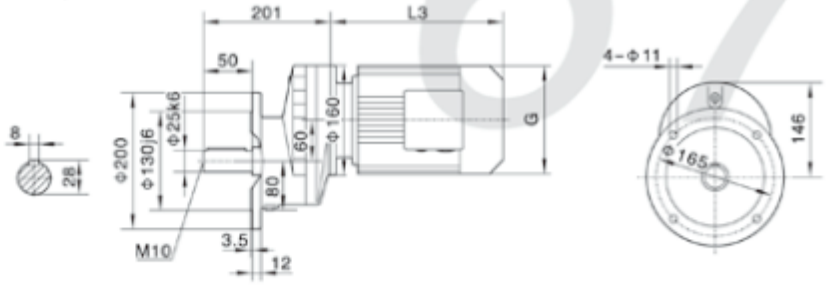
Φ160



Customers provide the motor by themselves need connected flange.

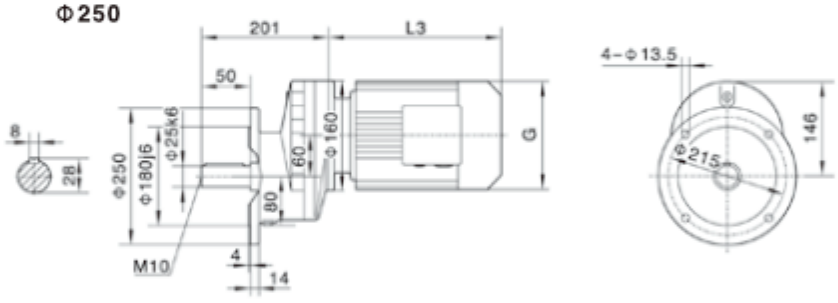


Φ200



Note: For other values please refer to relevant structure.

Φ250

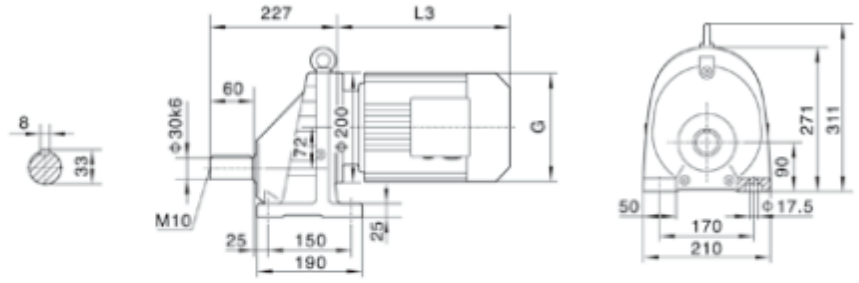


Motor size	63	71		80		90S	90L	100		112M	132S	132M
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5
L3	223	245		278		304	328	350		380	425	461
G	130	145		175		195	195	215		240	275	275
L2	81	81		81		81	81	93		93	101	101

Note: "RX.." means RX, RXF.

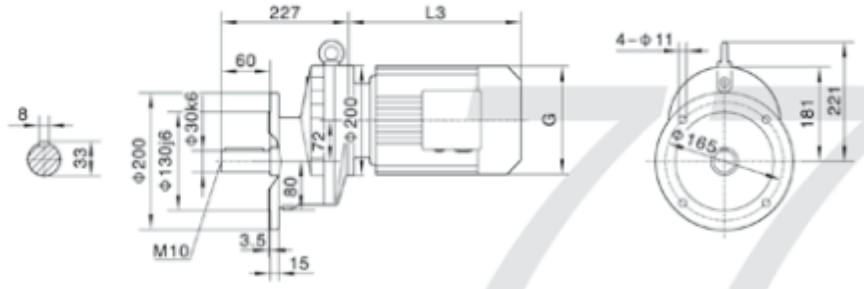
R

RX77

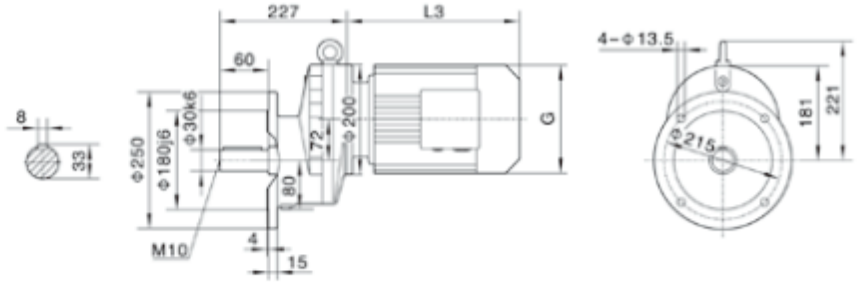


RXF77

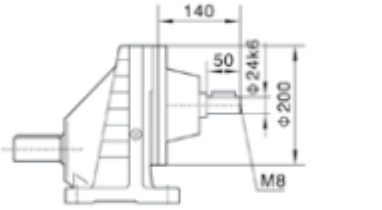
Φ200

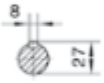


Φ250

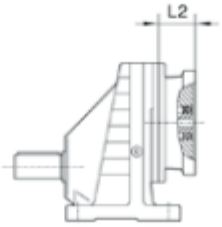


RX..S77





Customers provide the motor by themselves need connected flange.

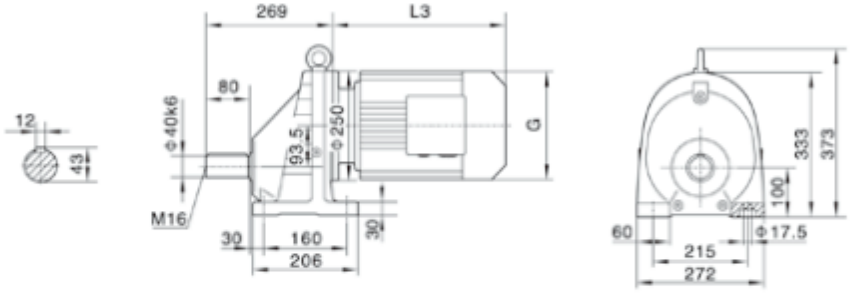


Note: For other values please refer to relevant structure.

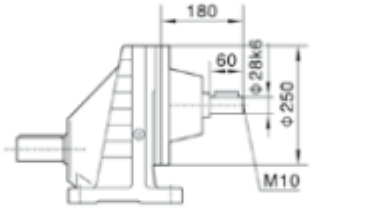
Motor size	90S	90L	100	112M	132S	132M	160M
Power/(kW)	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11
L3	304	328	350	380	425	461	524
G	195	195	215	240	275	275	330
L2	81	81	93	93	101	101	126

Note: "RX.." means RX, RXF.

RX87



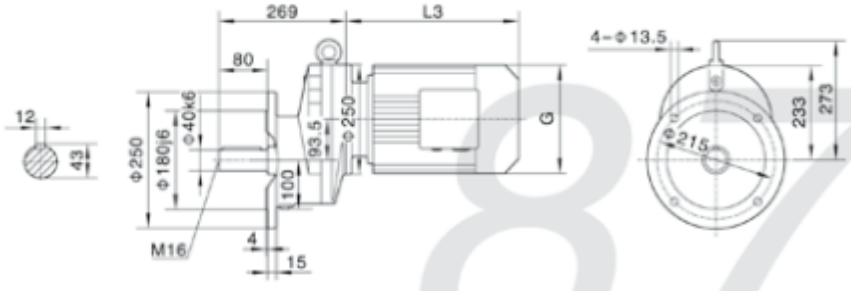
RX..S87



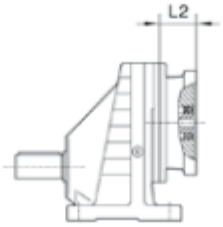


RXF87

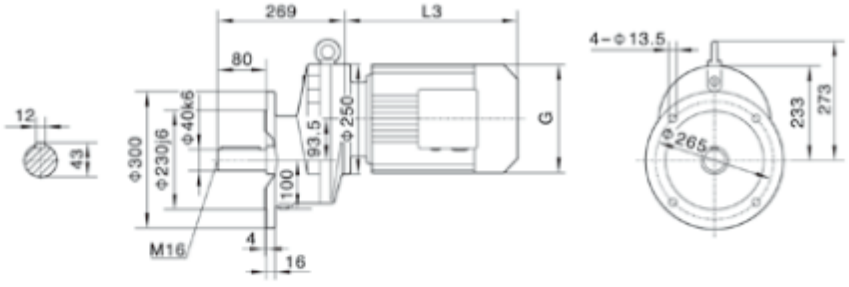
Φ250



Customers provide the motor by themselves need connected flange.



Φ300



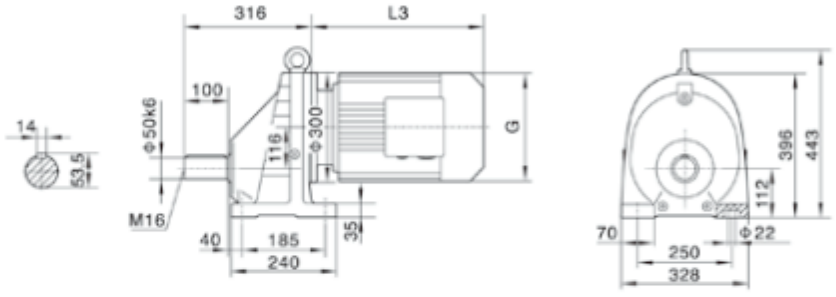
Note: For other values please refer to relevant structure.

Motor size	100	112M	132S	132M	160M	160L	180M	180L	
Power/(kW)	3.0	4.0	5.5	7.5	11	15	18.5	22	
L3	351	380	425	461	524	547	583	616	
G	215	240	275	275	330	330	380	380	
L2	71	71	101	101	126	126	126	126	

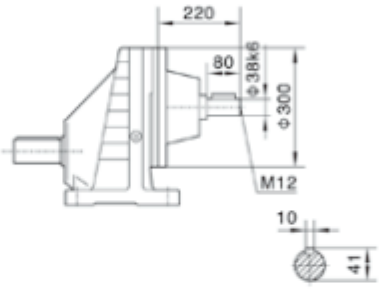
Note: "RX.." means RX, RXF.

R

RX97

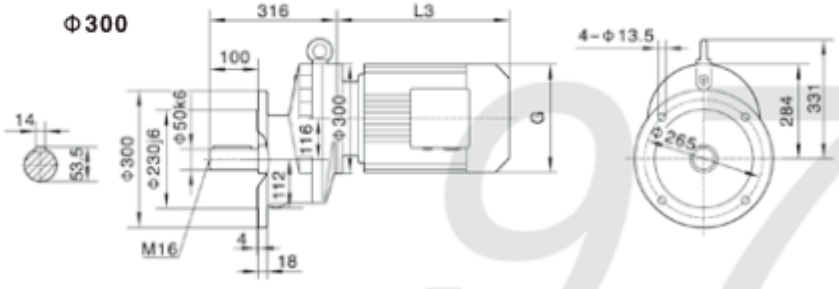


RX..S97

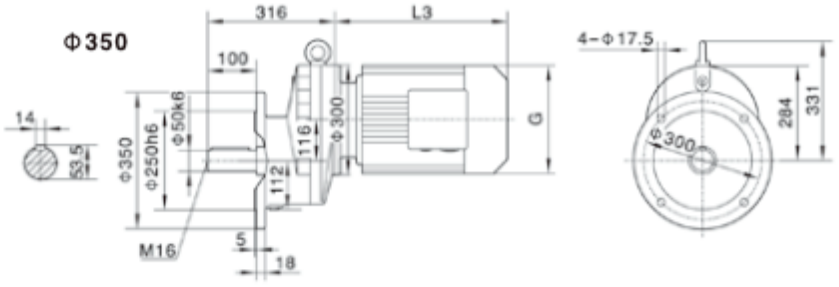


RXF97

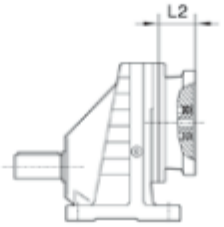
Φ300



Φ350



Customers provide the motor by themselves need connected flange.

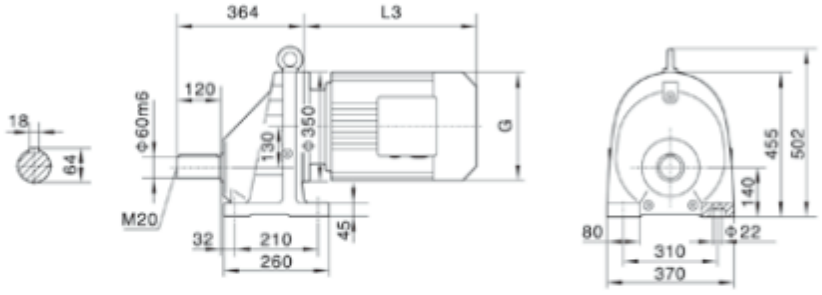


Note: For other values please refer to relevant structure.

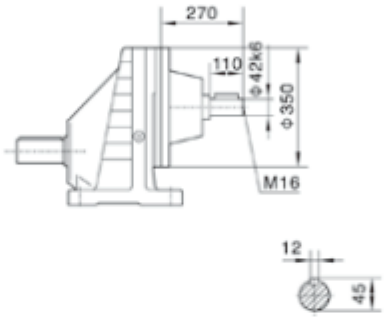
Motor size	132S	132M	160M	160L	180M	180L	200	
Power/(kW)	5.5	7.5	11	15	18.5	22	30	
L3	425	461	524	547	555	588	654	
G	275	275	330	330	380	380	420	
L2	101	101	126	126	126	126	126	

Note: "RX.." means RX, RXF.

RX107

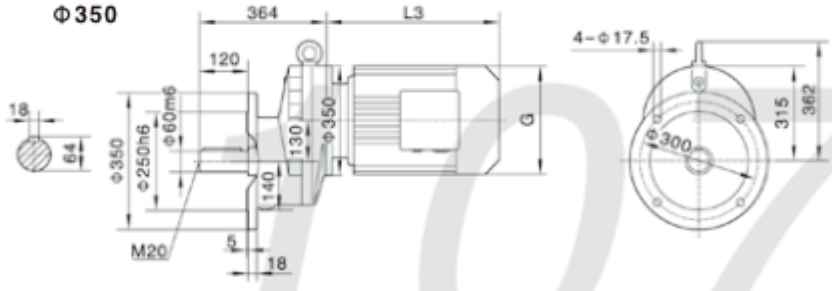


RX..S107

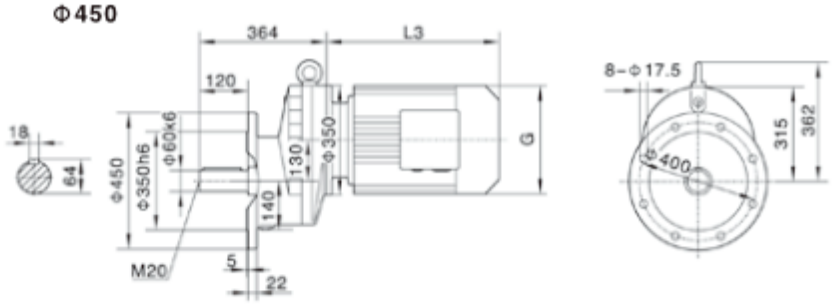


RXF107

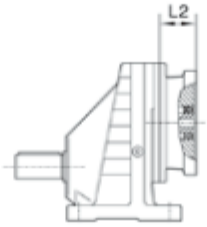
Φ350



Φ450



Customers provide the motor by themselves need connected flange.



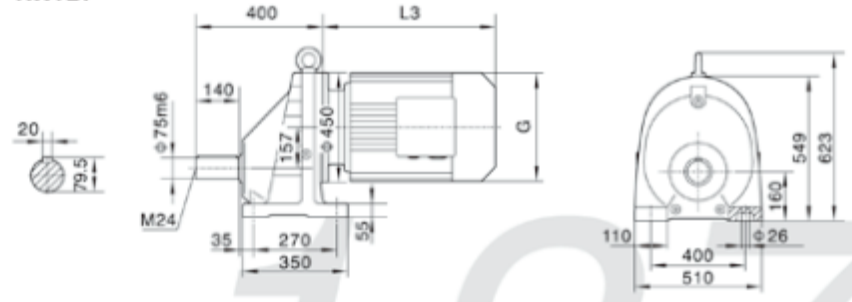
Note: For other values please refer to relevant structure.

Motor size	132M	160M	160L	180M	180L	200	225S	225M	
Power/(kW)	7.5	11	15	18.5	22	30	37	45	
L3	422	504	519	555	588	654	680	702	
G	275	330	330	380	380	420	470	470	
L2	101	126	126	126	126	132	132	132	

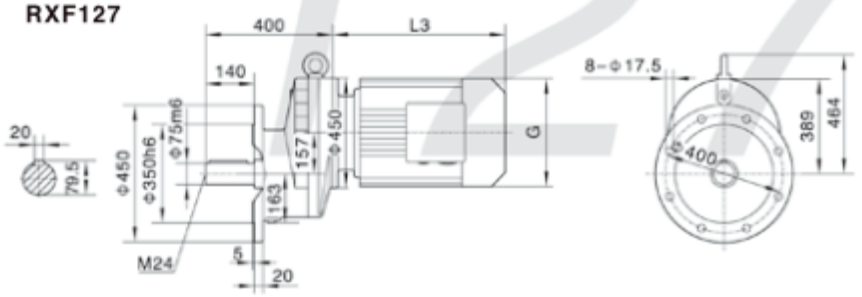
Note: "RX.." means RX, RXF.

R

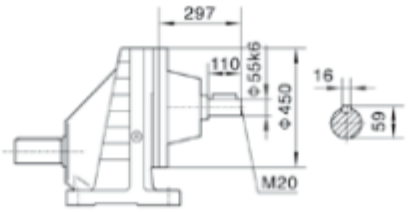
RX127



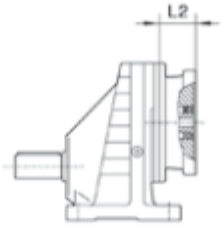
RXF127



RX..S127



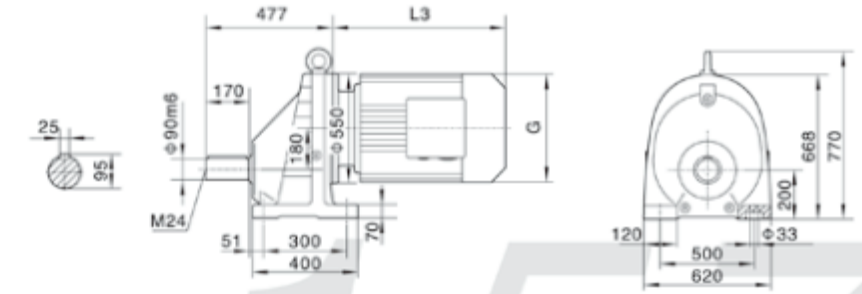
Customers provide the motor by themselves need connected flange.



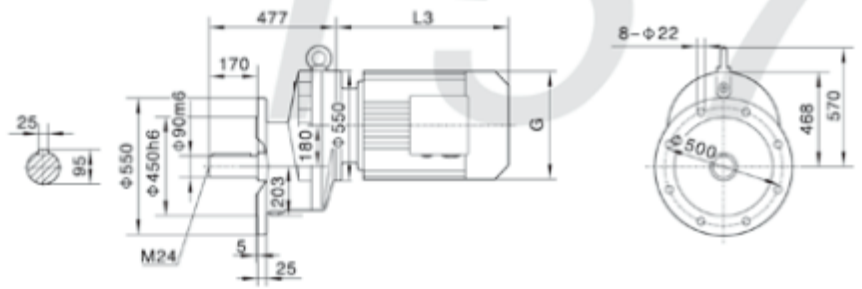
Note: For other values please refer to relevant structure.

Motor size	132M	160M	160L	180M	180L	200	225S	225M	250	280S	280M
Power/(kW)	7.5	11	15	18.5	22	30	37	45	55	75	90
L3	424	567	602	583	616	654	674	696	775	845	845
G	275	330	330	380	380	420	470	470	510	580	580
L2	132	132	132	132	132	132	143	143	120	120	120

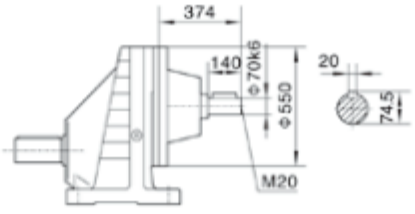
RX157



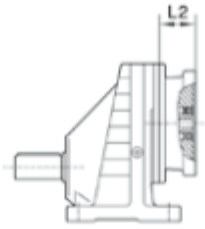
RXF157



RX..S157



Customers provide the motor by themselves need connected flange.

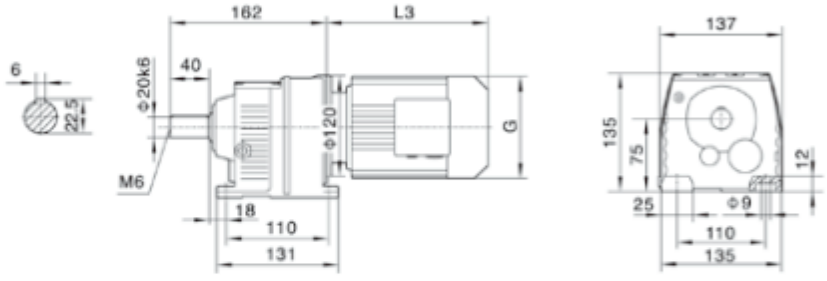


Note: For other values please refer to relevant structure.

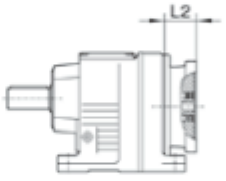
Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132
L3	567	602	635	666	642	669	691	770	828	879	1100	1130
G	330	330	380	380	420	470	470	510	580	580	645	645
L2	143	143	143	143	143	143	143	143	143	143	145	145

Note: "RX.." means RX, RXF.

R17



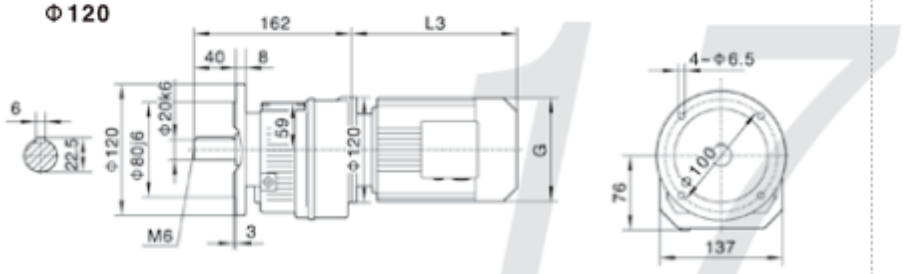
Customers provide the motor by themselves need connected flange.



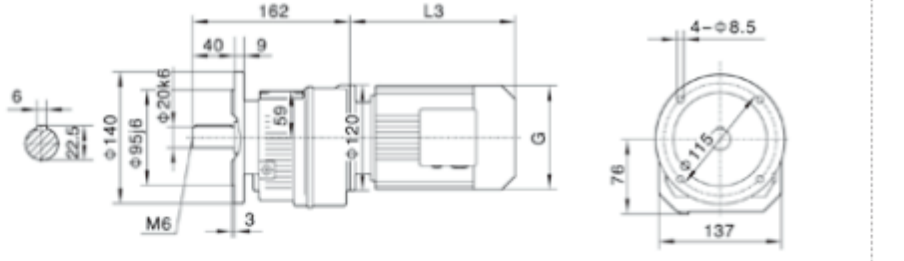
RF17

Note: For other values please refer to relevant structure.

Φ120



Φ140

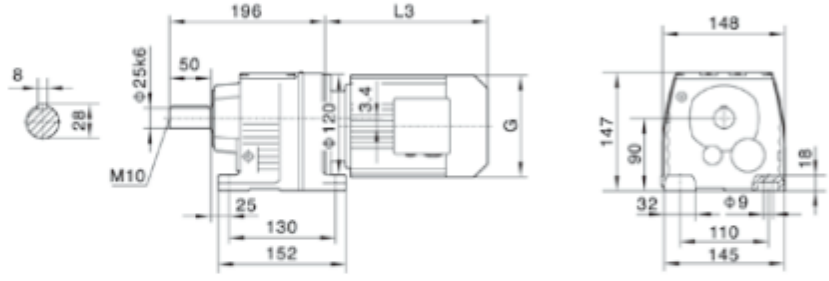


Motor size	63	71		80								
Power/(kW)	0.18	0.25	0.37	0.55	0.75							
L3	235	245		278								
G	130	145		175								
L2	71	71		71								

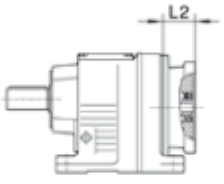
Note: "R.." means R, RF.

R

R27

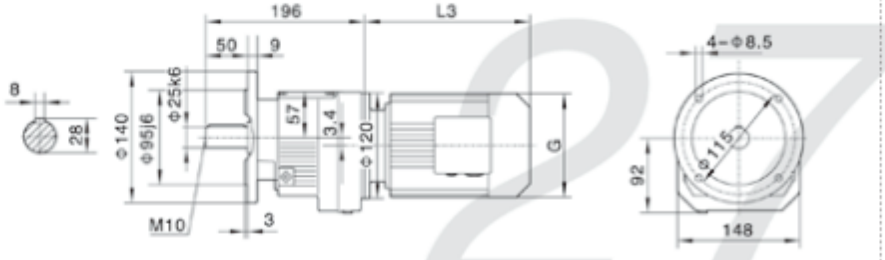


Customers provide the motor by themselves need connected flange.

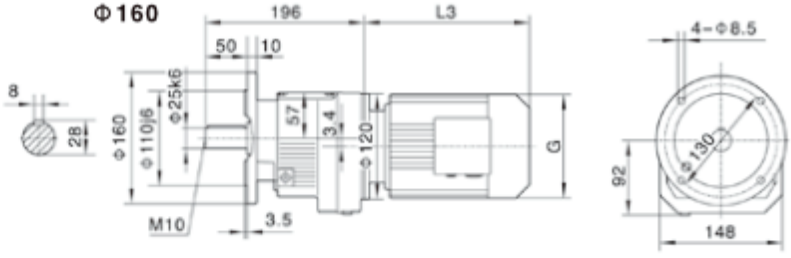


RF27

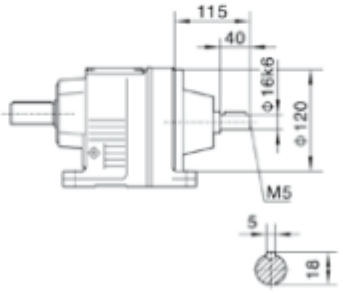
Φ140



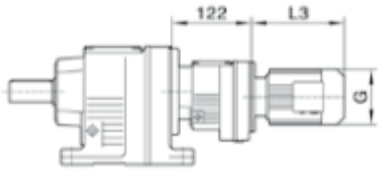
Φ160



R..S27



R..27R17

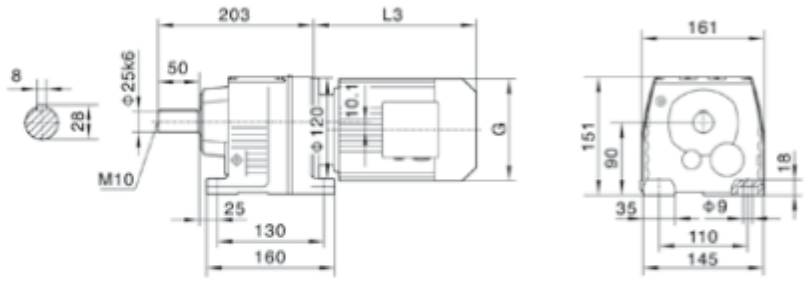


Note: For other values please refer to relevant structure.

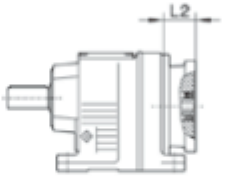
Motor size	63	71		80		90S	90L	100	
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0
L3	235	245		278		304	328	340	
G	130	145		175		195	195	215	
L2	71	71		71		71	71	93	

Note: "R.." means R, RF.

R37

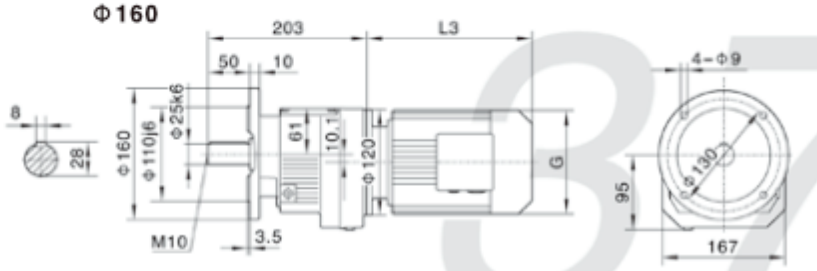


Customers provide the motor by themselves need connected flange.

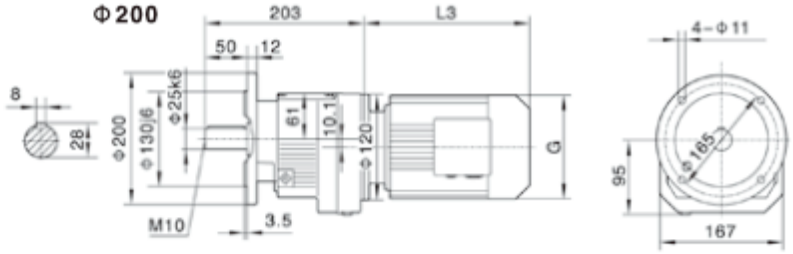


RF37

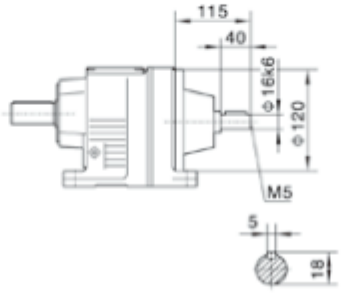
Φ160



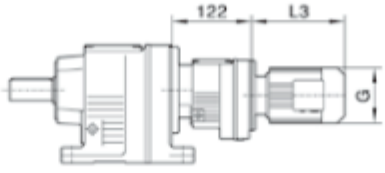
Φ200



R..S37



R..37R17



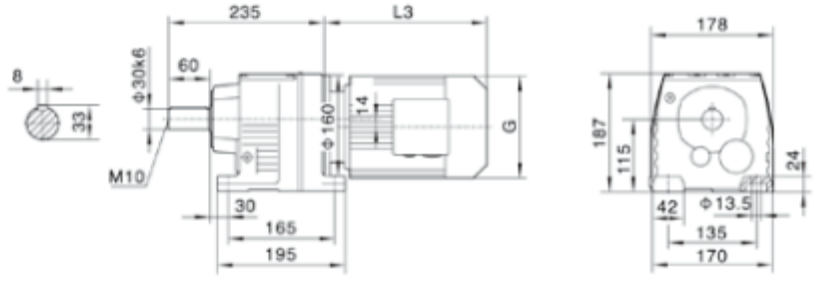
Note: For other values please refer to relevant structure.

Motor size	63	71		80		90S	90L	100L	
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0
L3	235	245		278		304	328	340	
G	130	145		175		195	195	215	
L2	71	71		71		71	71	93	

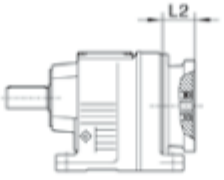
Note: "R.." means R, RF.

R

R47

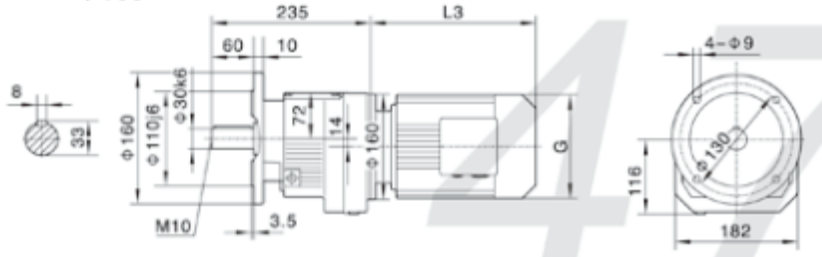


Customers provide the motor by themselves need connected flange.

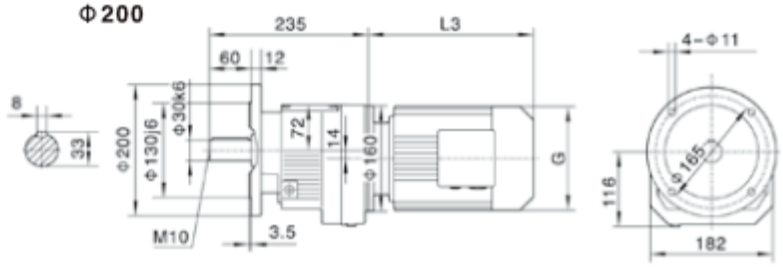


RF47

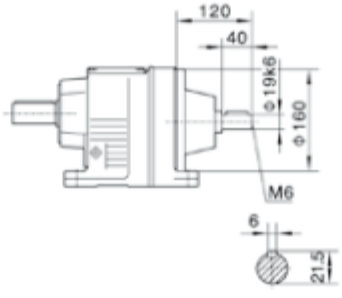
Φ160



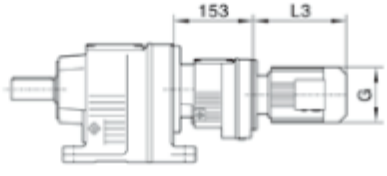
Φ200



R..S47



R..47R37

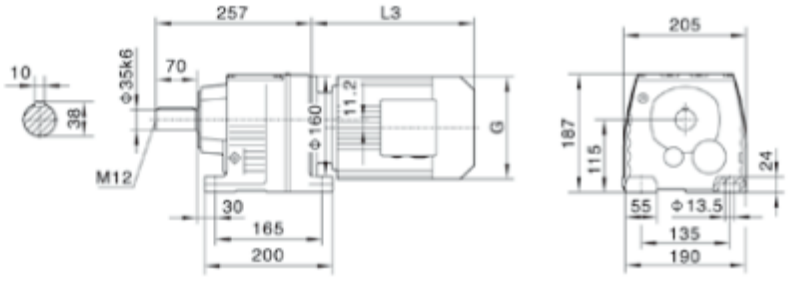


Note: For other values please refer to relevant structure.

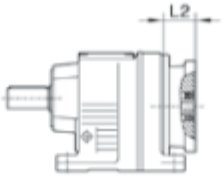
Motor size	63	71		80		90S	90L	100		112M	132S
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5
L3	223	245		278		304	328	350		380	425
G	130	145		175		195	195	215		240	275
L2	81	81		81		81	81	93		93	101

Note: "R.." means R, RF.

R57

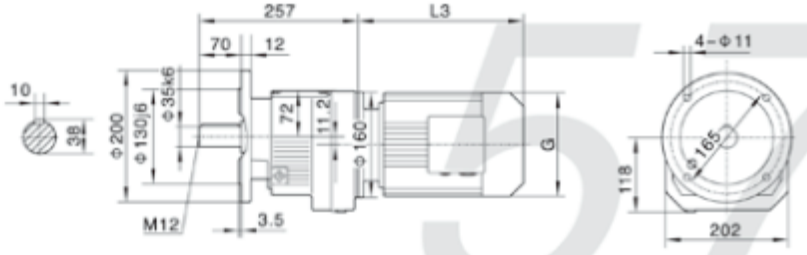


Customers provide the motor by themselves need connected flange.

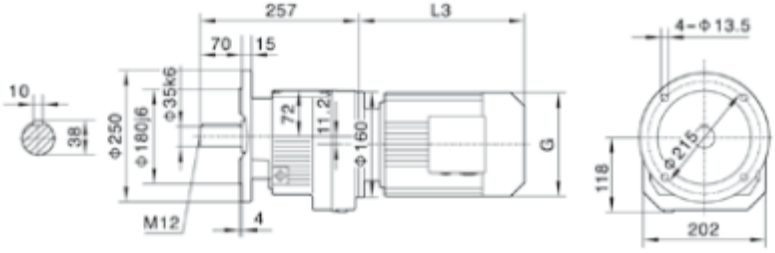


RF57

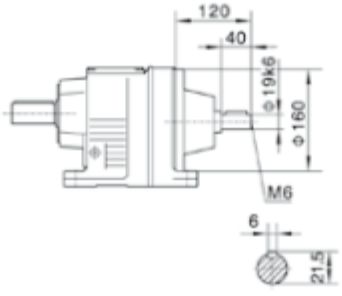
Φ200



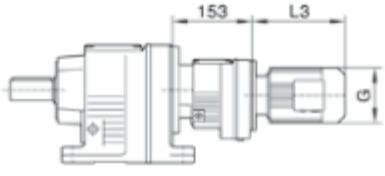
Φ250



R..S57



R..57R37



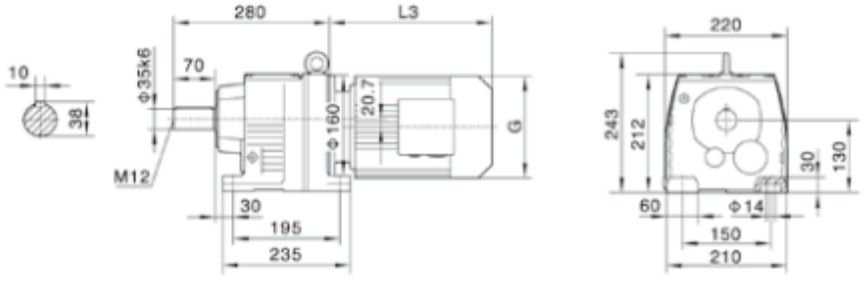
Note: For other values please refer to relevant structure.

Motor size	63	71		80		90S	90L	100L		112M	132S	132M
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5
L3	223	245		278		304	328	350		380	425	461
G	130	145		175		195	195	215		240	275	275
L2	81	81		81		81	81	93		93	101	101

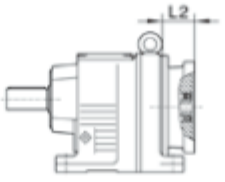
Note: "R.." means R, RF.

R

R67

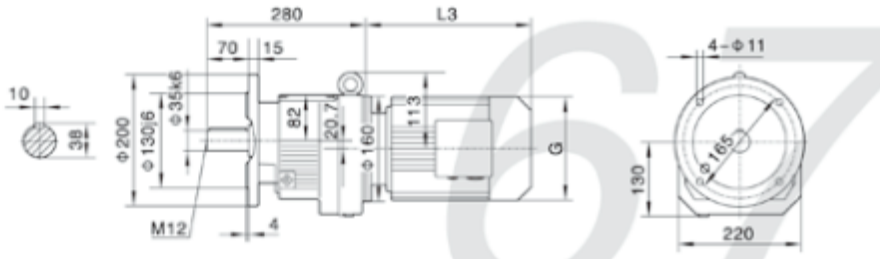


Customers provide the motor by themselves need connected flange.

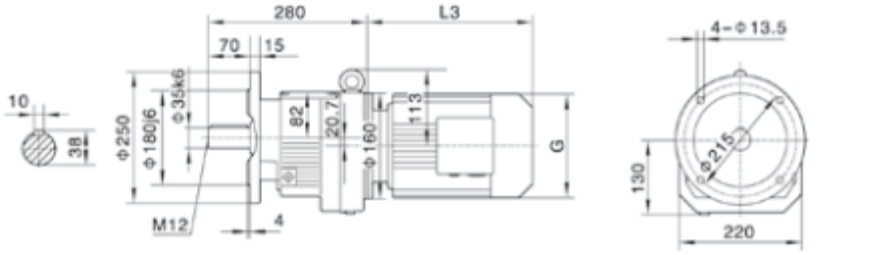


RF67

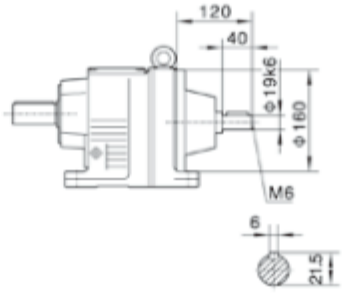
Φ200



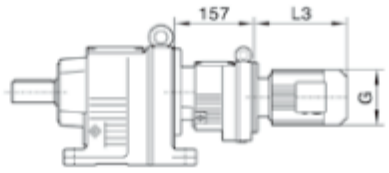
Φ250



R..S67



R..67R37

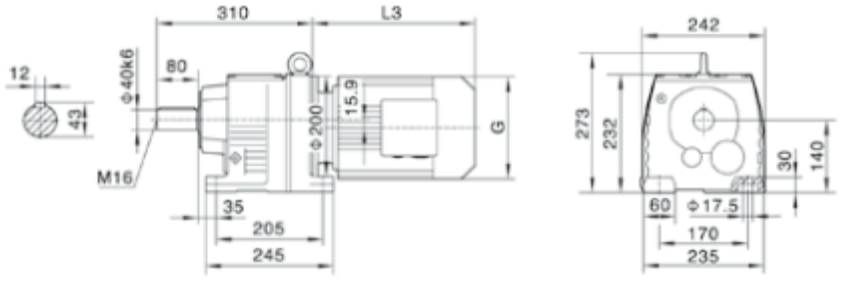


Note: For other values please refer to relevant structure.

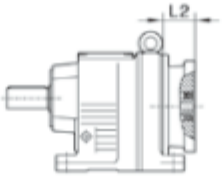
Motor size	63	71		80		90S	90L	100L		112M	132S	132M
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5
L3	223	245		278		304	328	350		380	425	461
G	130	145		175		195	195	215		240	275	275
L2	81	81		81		81	81	93		93	101	101

Note: "R.." means R, RF.

R77

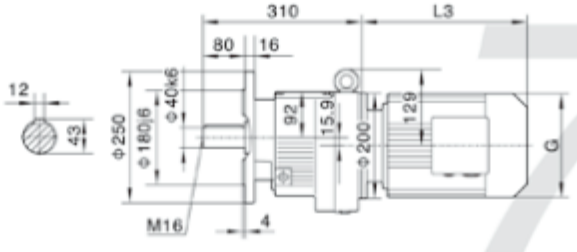


Customers provide the motor by themselves need connected flange.

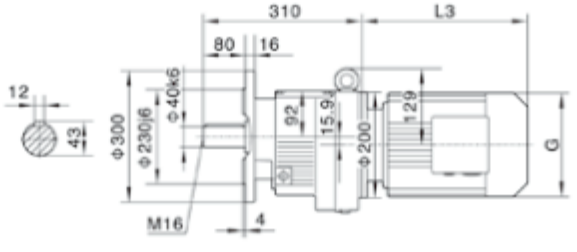


RF77

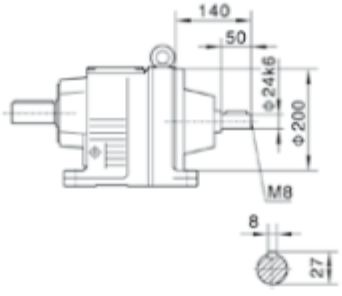
Φ250



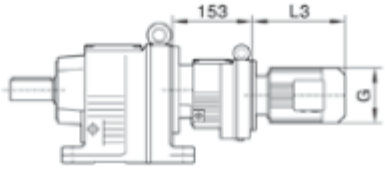
Φ300



R..S77



R..77R37



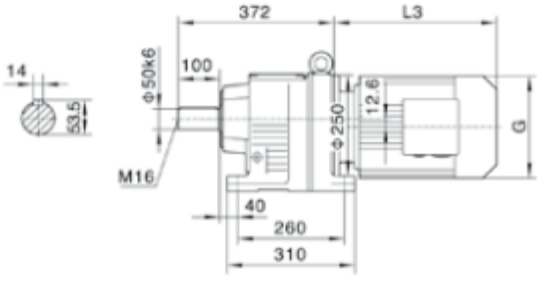
Note: For other values please refer to relevant structure.

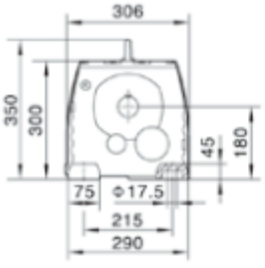
Motor size	63	71		80		90S	90L	100L		112M	132S	132M	160M
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11
L3	223	233		278		304	328	350		380	425	461	524
G	130	145		175		195	195	215		240	275	275	330
L2	81	81		81		81	81	93		93	101	101	126

Note: "R.." means R, RF.

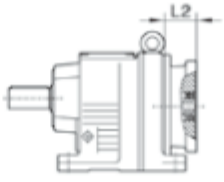
R

R87



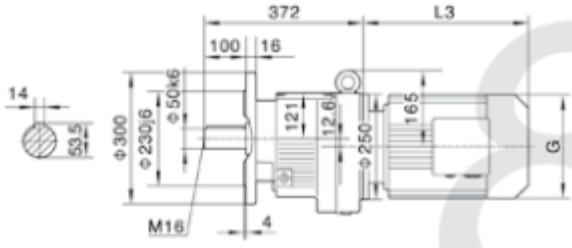


Customers provide the motor by themselves need connected flange.



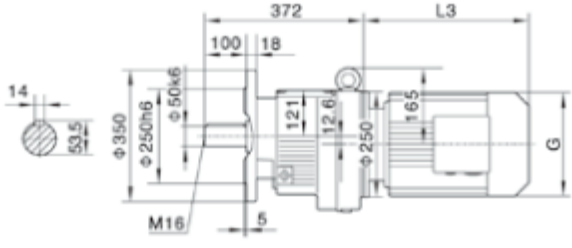
RF87

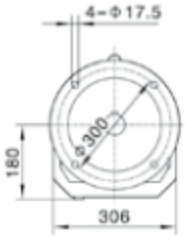
Φ300



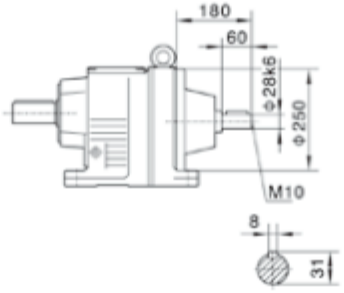


Φ350

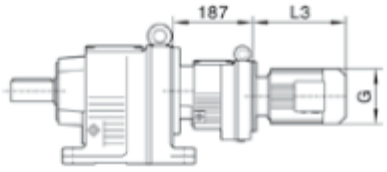




R..S87



R..87R57

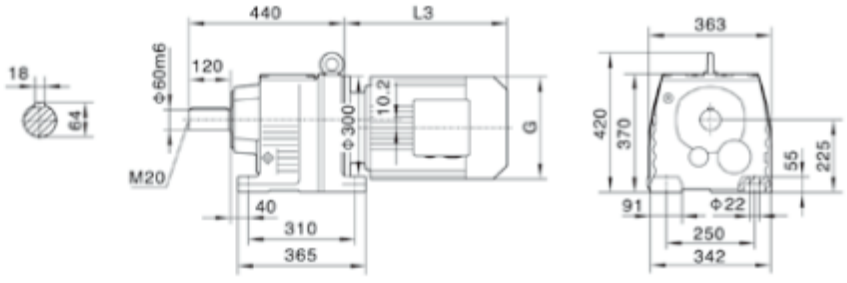


Note: For other values please refer to relevant structure.

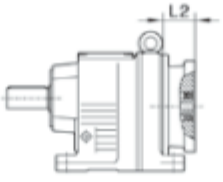
Motor size	80		90S	90L	100		112M	132S	132M	160M	160L	180M	180L
Power/(kW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22
L3	246		280	304	350		380	425	461	524	547	583	616
G	175		195	195	215		240	275	275	330	330	380	380
L2	86		86	86	71		71	101	101	126	126	126	126

Note: "R.." means R, RF.

R97

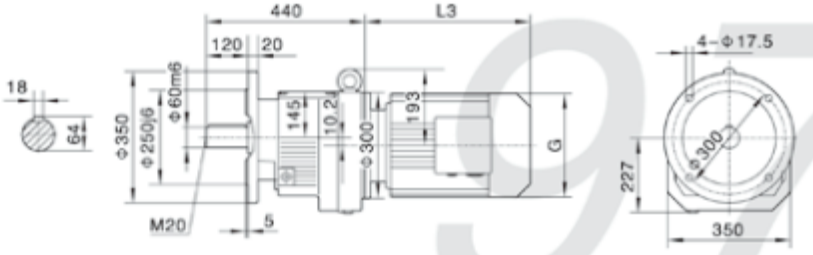


Customers provide the motor by themselves need connected flange.

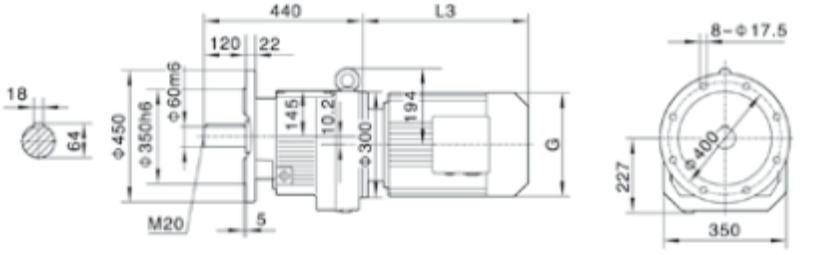


RF97

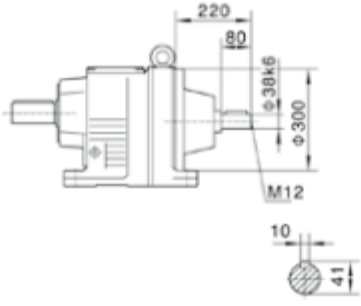
Φ350



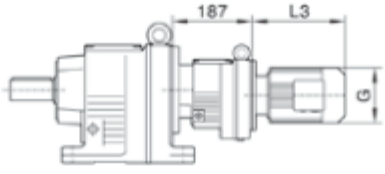
Φ450



R..S97



R..97R57



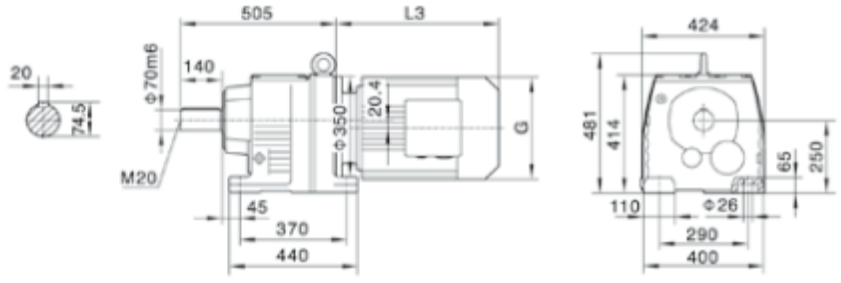
Note: For other values please refer to relevant structure.

Motor size	80		90S	90L	100		112M	132S	132M	160M	160L	180M	180L	200
Power/(kW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	30
L3	246		280	304	315		334	425	461	524	547	555	588	654
G	175		195	195	215		240	275	275	330	330	380	380	420
L2	86		86	86	101		101	101	101	126	126	126	126	132

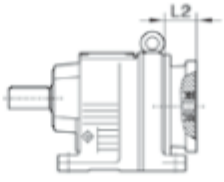
Note: "R.." means R, RF.

R

R107

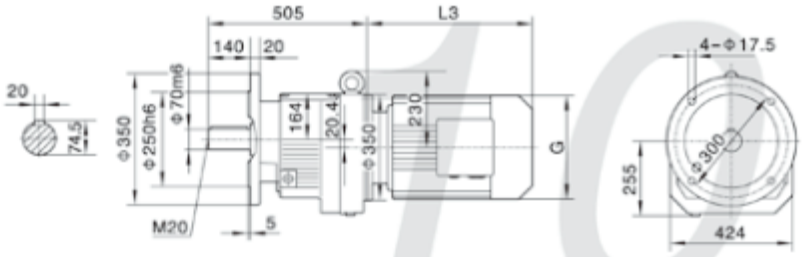


Customers provide the motor by themselves need connected flange.

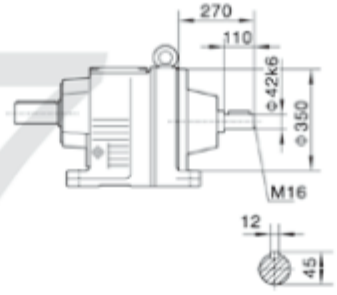


RF107

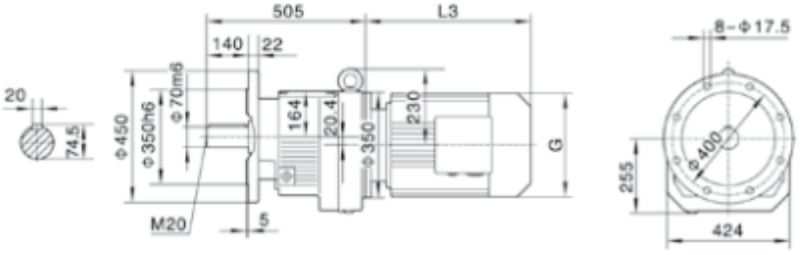
Φ350



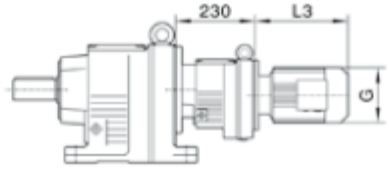
R..S107



Φ450



R..107R77

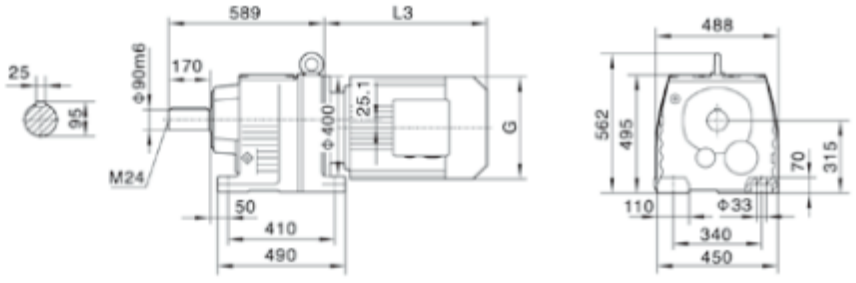


Note: For other values please refer to relevant structure.

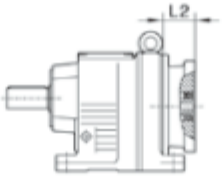
Motor size	100		112M	132S	132M	160M	160L	180M	180L	200	225S	225M
Power/(kW)	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	30	37	45
L3	318		334	386	422	504	519	555	588	654	680	702
G	215		240	275	275	330	330	380	380	420	470	470
L2	101		101	101	101	126	126	126	126	132	132	132

Note: "R.." means R, RF.

R137

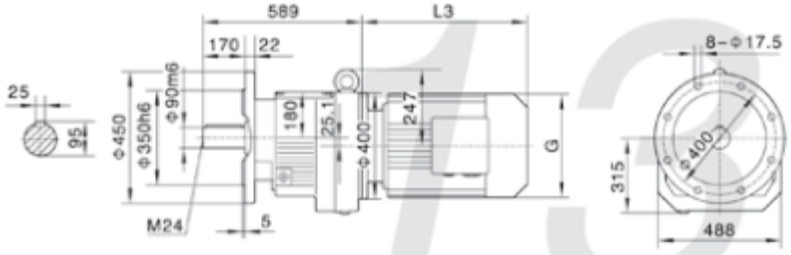


Customers provide the motor by themselves need connected flange.

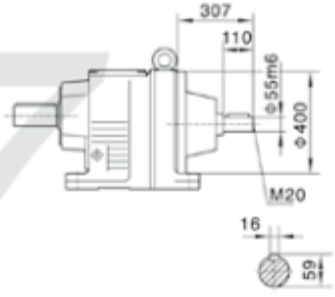


RF137

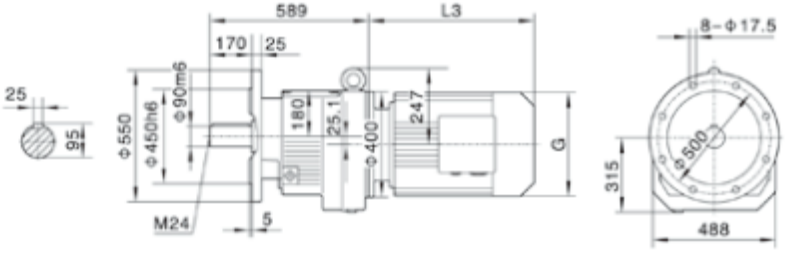
Φ450



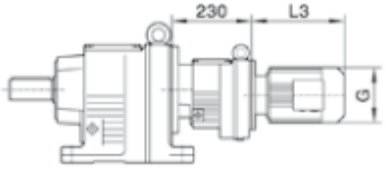
R..S137



Φ550



R..137R77



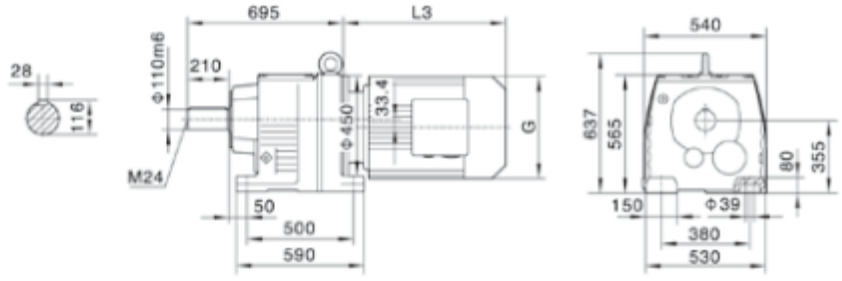
Note: For other values please refer to relevant structure.

Motor size	132S	132M	160M	160L	180M	180L	200	225S	225M	250
Power/(kW)	5.5	7.5	11	15	18.5	22	30	37	45	55
L3	388	424	476	519	555	588	654	680	702	771
G	275	275	330	330	380	380	420	470	470	510
L2	126	126	132	132	132	132	132	143	143	174

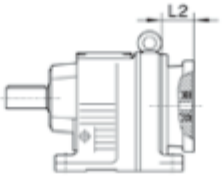
Note: "R.." means R, RF.

R

R147

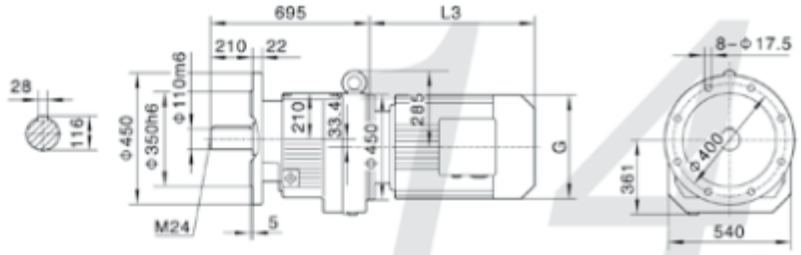


Customers provide the motor by themselves need connected flange.

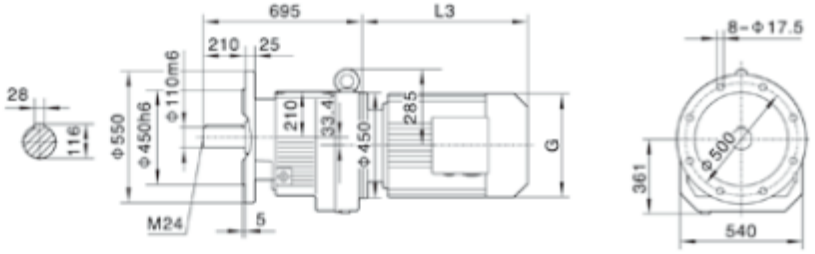


RF147

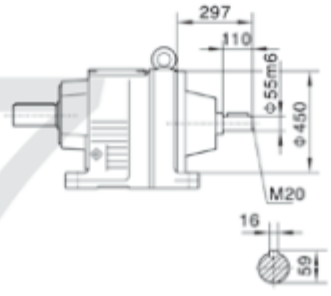
Φ450



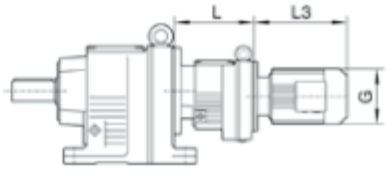
Φ550



R..S147



R..147R87(R77)



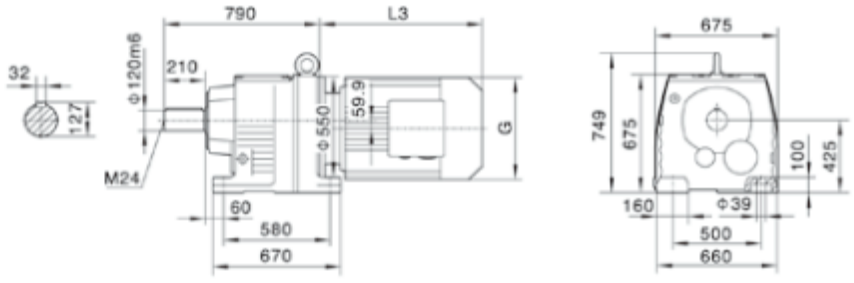
	R..147R77	R..147R87
L	230	275

Note: For other values please refer to relevant structure.

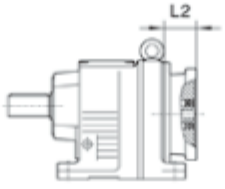
Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90
L3	567	602	583	616	654	674	696	775	845	845
G	330	330	380	380	420	470	470	510	580	580
L2	132	132	132	132	132	143	143	174	174	174

Note: "R.." means R, RF.

R167

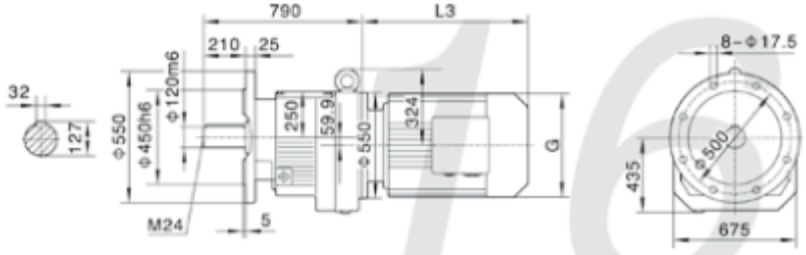


Customers provide the motor by themselves need connected flange.

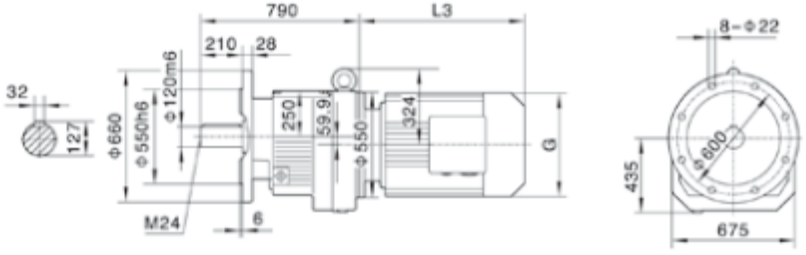


RF167

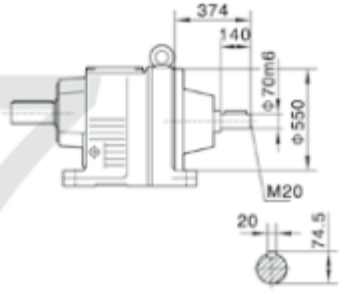
Φ550



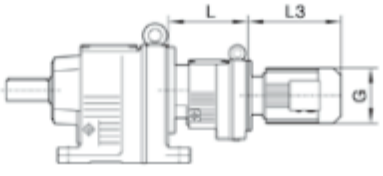
Φ660



R..S167



R..167R97(R107)



	R..167R97	R..167R107
L	320	370

Note: For other values please refer to relevant structure.

Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160
L3	567	602	635	666	642	669	691	770	828	879	1100	1130	1360
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	143	143	143	143	143	143	143	113	113	113	113	145	145

Note: "R.." means R, RF.

SMC
(주)신명전기

(주) 신명전기

(우)10049 경기도 김포시 양촌읍 삼도로 44

Tel: +82-31-988-4102 Fax: 82-31-988-4101

Web: www.smec.co.kr