

GEDAEFFECT

ЦИЛИНДРИЧЕСКИЕ
МОТОР-РЕДУКТОРЫ



серия R



Gedaffect
The Engineering Company



ОПИСАНИЕ ПРОДУКЦИИ

Цилиндрические мотор-редукторы серии R, также известны как цилиндрические коаксиальные либо поточные цилиндрические мотор-редукторы, так как входной и выходной вал у таких редукторов расположены в одну линию.

Мощность: 0,18-106 кВт.

Выходной момент: до 18000 Н·м.

Выходная скорость: 0,16-1028 об/мин.

Способ монтажа: на лапах или на фланце.

Эффективность передачи: 2 ступени (коэффициент 5-24,8): 96%; 3 ступени (коэффициент 27,2-264): 94%.

Доступные варианты: одноступенчатый либо многоступенчатый (RX-Y либо RXF-F-Y). На лапах либо на фланце (RY либо RF-F-Y). На лапах и на фланце (R-F-Y). На фланце с удлиненной ступицей подшипника (серия RM).

Применяются в химическом машиностроении, установках для перемешивания цемента, печатном и упаковочном оборудовании, горно-шахтном и силовом оборудовании, металлургии и т.д.



ОСНОВНЫЕ МОДЕЛИ

- R17, R27, R37, R47, R57, R67, R77, R87, R97, R107, R137, R147, R167. R: на лапах, сплошной вал
- RF17, RF27, RF37, RF47, RF57, RF67, RF77, RF87, RF97, RF107, RF137, RF147, RF167. RF: на фланце, сплошной вал
- RX37, RX57, RX67, RX77, RX87, RX97, RX107, RX127, RX157. RX: на лапах, одноступенчатый, сплошной вал
- RXF37, RXF57, RXF67, RXF77, RXF87, RXF97, RXF107, RXF127, RXF157. RXF: на фланце, одноступенчатый, сплошной вал

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

- Высокомодульная конструкция, компактность
- Высокая эффективность зубчатых передач, свыше 90%
- Многоступенчатые передачи (2 или 3 ступени) для обеспечения низкой выходной скорости
- Способность выдерживать высокие нагрузки, стабильность передачи, низкий уровень шума
- Высокая степень герметичности, экономия затрат, низкая стоимость обслуживания, широкий спектр применения

СФЕРЫ ПРИМЕНЕНИЯ

- Серия Y Стандарт IEC и IE2 Односкоростные и двухскоростные высокоэффективные двигатели
- Серия YVP, YVPEJ, YEJ, YDEJ Трехфазные асинхронные тормозные двигатели переменной частоты
- Серия YZP, YZPEJ, YZRE Трехфазные асинхронные двигатели для кранов и металлургической промышленности
- Серия YB, YBEJ, YBPT, YFB Трехфазные асинхронные взрывозащитные двигатели
- Серия YGa, YGb Двигатели для рольгангов
- Синхронные двигатели, двигатели постоянного тока, серводвигатели

РУКОВОДСТВО ПО ВЫБОРУ ОБОРУДОВАНИЯ

Конструкция двигателей предусматривает постоянные нагрузки, заявленное время работы, также время пуска. Коэффициент привода f_1 , коэффициент первичного пуска f_2 , пусковой коэффициент f_3 – согласно фактической нагрузке, времени работы, пусковой частоте.

Принимаются значения, меньше либо равные расчетному коэффициенту f_b Таблицы, то есть $f_1 * f_2 * f_3 \leq f_b$.

Требуемый момент при умножении на расчетный коэффициент ($f_1 * f_2 * f_3$) должен быть меньше либо равен допустимому моменту редуктора.

Таким образом,

$$T_N \geq T_2 * f_1 * f_2 * f_3$$

f_1 – коэффициент привода (см. Таблицу 1)

f_2 – коэффициент первичного пуска (см. Таблицу 2)

f_3 – коэффициент пуска (см. Таблицу 3)

T_2 – требуемый момент

T_N – допустимый момент__

Sample Part Number

Service factor:

Table 1				Driven machine factor			f ₁		
Driven equipment	Daily operating time with load(hour)			Driven equipment	Daily operating time with load(hour)				
	≤ 2	> 2-10	> 10		≤ 2	> 2-10	> 10		
Sewage treatment				Conveying machine					
Concentrator(Central Transmission)	-	-	1.2	Bucket conveyor	-	1.4	1.5		
Compressed filter	1.0	1.3	1.5	Winch	1.4	1.6	1.6		
Flocculator	0.8	1.0	1.3	Hoist	-	1.5	1.8		
Aerator	-	1.8	2.0	Belt conveyor≤150kW	1.0	1.2	1.3		
Collector	1.0	1.2	1.3	Belt conveyor>150kW	1.1	1.3	1.4		
Vertical, rotary group				Elevators for goods*	-	1.2	1.5		
Blended collector	1.0	1.3	1.5	Elevators for customers*	-	1.5	1.8		
Concentrator	-	1.1	1.3	Scraper conveyor	-	1.2	1.5		
Screw pump	-	1.3	1.5	Automatic ladder	1.0	1.2	1.4		
Water wheel machine	-	-	2.0	Rail traveling mechanism	-	1.5	-		
Pump				Various frequency device	-	1.8	2.0		
Centrifugal pump	1.0	1.2	1.3	Reciprocating compressor	-	1.8	1.9		
Volume-down pump	1.3	1.4	1.8	Hoisting mechanism**					
1Piston	1.2	1.4	1.5	Rotary mechanism*		1.4	1.8		
>1Piston				Pitching mechanism		1.1	1.4		
Dredge				Traveling mechanism		1.6	2.0		
Bucket conveyor	-	1.6	1.6	Lifting mechanism		1.1	1.4		
Unloading device	-	1.3	1.5	Jibcrane		1.2	1.6		
Caterpillar traveling mechanism	1.2	1.6	1.8	Cooling tower					
Bucket digger				Cooling tower fan	-	-	2.0		
Be used for picking up	-	1.7	1.7	Fan (Shaft flow and centrifugal type)	-	1.4	1.5		
Be used for rough materials	-	2.2	2.2	Food industry					
Chopper	-	2.2	2.2	Sugar production					
Traveling mechanism*	-	1.4	1.8	Sugar-cane cutter*	-	-	1.7		
Plate blender	-	1.0	1.0	Sugar crane mill	-	-	1.7		
Chemical industry				Beet sugar production	-	-	1.7		
Extruder	-	-	1.6	Beet masher	-	-	1.2		
Paste mixer	-	1.8	1.8	Squeeze machine, mechanical refrigerator, cooking machine	-	-	1.4		
Rubber calendar	-	1.5	1.5	Beet cleaner	-	-	1.5		
Cooling cylinder	-	1.3	1.4	Beet chopper	-	-	1.5		
Material mixer, be used for				Paper-making machinery					
Uniform medium	1.0	1.3	1.4	Various kinds***	-	1.8	2.0		
Non-uniform medium	1.4	1.6	1.7	Pulper driving device	Supply goods according to customer requirements				
Blender, be used for				Centrifugal compressor	-	1.4	1.5		
Uniform density medium	1.0	1.3	1.5	Rope way cable car					
Un-uniformed medium	1.2	1.4	1.6	Delivery ropeway	-	1.3	1.4		
Un-uniformed gas absorption	1.4	1.6	1.8	Cableway of shuttle system	-	1.6	1.8		
Oven	1.0	1.3	1.5	T rod elevator	-	1.3	1.4		
Centrifugal machine	1.0	1.2	1.3	Continuous cableway	-	1.4	1.6		
Metal processing equipment				Cement industry					
Plate turnover	1.0	1.0	1.2	Concrete blender	-	1.5	1.5		
Steel pushing device	1.0	1.2	1.2	Crusher*	-	1.2	1.4		
Winding machine	-	1.6	1.6	Rotary kiln	-	-	2.0		
Cooling bed transverse frame	-	1.5	1.5	Tube mill	-	-	2.0		
Roller leveler	-	1.6	1.6	Powder concentrator	-	1.6	1.6		
Roller path				Roller press	-	-	2.0		
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	-	2.5	2.5						
Reversing cogging mill	-	2.5	2.5						
Reversing plate slab mill	-	1.8	1.8						
Reversing wire mill	-	2.0	2.0						
Reversing thin plate mill	-	1.8	1.8						
Reversing middle thickness plate mill	-	1.8	1.8						
Roll gap adjusting and driving device	0.9	1.0	-						

Sample Part Number

Table 1				Driven machine factor				f ₁
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								
Conveying chain				Rubber industry				
Floor	1.50	1.50	1.50	Continuous strong inner mixer, Mix roller,				
Green-wood	1.50	1.50	1.75	Batch feeding mixer (except for double sticks)	1.50	1.50	1.50	
Cutting Chain				Refiner, calender				
Saw transmission, traction	1.50	1.50	1.75					
Peeling barrel	1.75	1.75	2.00	Double roller clamp feeding and mixed miller	1.25	1.25	1.50	
Feed drive								
Edging, wood trimmer				Batch strong inner mixer,				
Planer feed, assorting table,	1.25	1.25	1.50	Double stick single groove grain stick	1.75	1.75	1.75	
Automatic incline lifting				Miller heater, double sticks				
Multi-shaft feed, raw wood	1.75	1.75	1.75	Batch feeding mixer				
Transportation and rotation				Wave stick miller	2.00	2.00	2.00	
Transportation				Generator and exciter	1.00	1.00	1.25	
Charging tray								
Plywood lathe drive	1.50	1.50	1.75	Hammer crusher	1.75	1.75	2.00	
Conveying chain, Lifting				Sand miller	1.25	1.25	1.50	

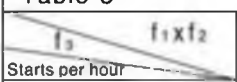
⚠ Note: Determine required power P₂ of the driven equipment:

*) Determine rated power according to maximum torque.

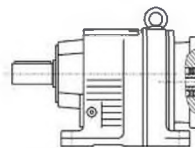
**) It's necessary to check thermal capacity.

Prime mover factor

Table 2 Factor for prime mover	f ₂
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	f ₃			
	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

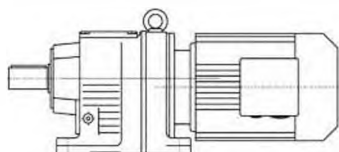
Sample Part Number



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

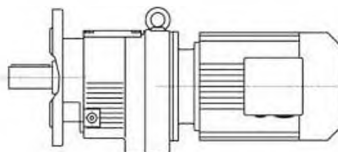
Customers provide the motor by themselves need connected flange

R series gear units are available in the following designs:



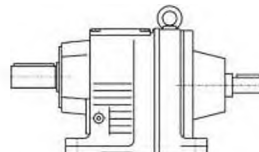
R...Y...

Foot-mounted helical gear units



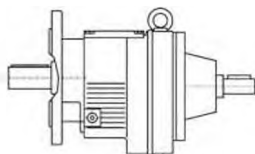
RF...Y...

Flange-mounted helical gear units



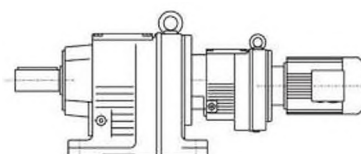
RS...

Foot-mounted helical gear units with solid shaft input



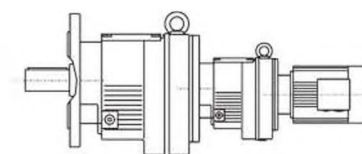
RFS...

Flange-mounted helical gear units with solid shaft input



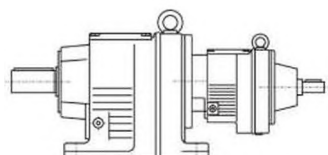
R...R...Y...

Foot-mounted combi-type helical gear units



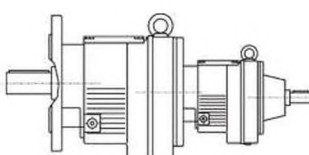
RF...R...Y...

Flange-mounted combi-type helical gear units



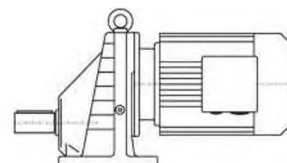
RS...R...

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



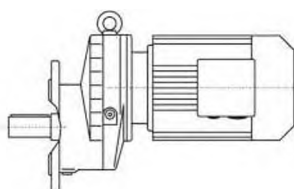
RFS...R...

Flange-mounted combi-type gear units with shaft input



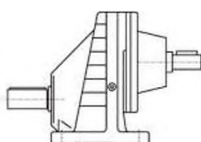
RX...Y...

Foot-mounted single-stage helical gear units



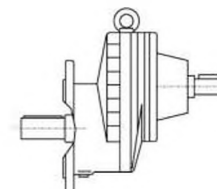
RXF...Y...

Flange-mounted single-stage helical gear units



RXS...

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

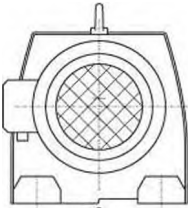
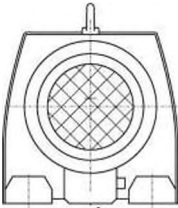
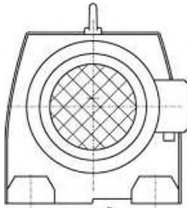
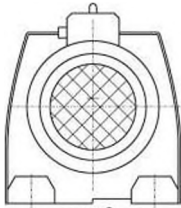


RXFS...

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

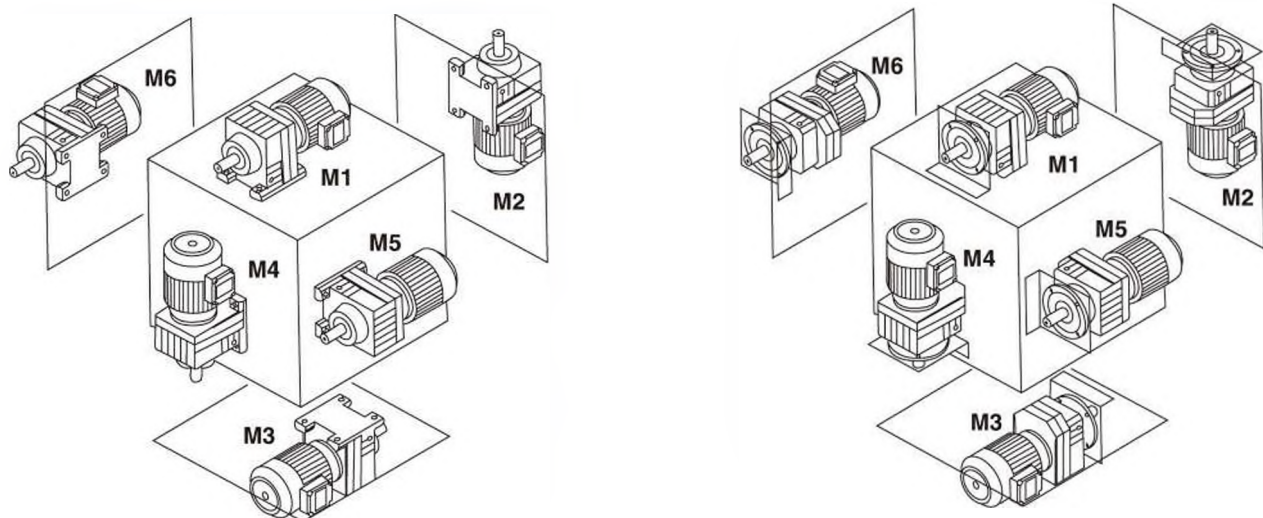
Sample Part Number

Type Designations:

R F 37-Y 0.55-4P-32.40-M1-270°-Φ200		
R series		Outer diameter of output flange
Structure		Positions of motor terminal box
Size		Mounting positions
Motor code		Ratio
Motor power, pole		
R series: Helical Gearmotors		
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.		
Positions of motor terminal box: 0°, 90°, 180°, 270°		
Outer diameter of output flange: See the chart of mounting dimension (It will be omitted when foot mounting)		
Positions of motor terminal box:  0°  90°  180°  270°		

Sample Part Number

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

Product 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.

Sample Part Number

Oil Quantity

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

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.

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p
0.18kW						0.18kW					
0.16	9293	8443	1.31	R 147R77 RF147R77	4	1.6	944	858	0.82	R 77R37 RF77R37	4
0.19	8042	7307	1.52			1.7	904	821	0.85		
0.22	7096	6447	1.72			1.8	833	757	0.93		
0.25	6128	5568	1.99			1.9	803	730	0.96		
0.29	5300	4815	2.31			2.1	739	671	1.04		
0.32	4760	4325	2.57			2.2	711	646	1.08		
0.38	4038	3669	3.03			2.4	628	571	1.23		
0.43	3553	3228	3.44	R 137R77 RF137R77	4	2.5	602	547	1.28	R 67R37 RF67R37	4
0.16	9668	8784	0.8			2.9	525	477	1.47		
0.19	8232	7479	0.91			3.3	469	426	1.64		
0.22	7057	6412	1.07			3.8	402	365	1.92		
0.24	6421	5834	1.17			4.5	341	310	2.26		
0.28	5504	5001	1.37			2.4	628	571	0.90		
0.30	5183	4709	1.45			2.5	617	561	0.91		
0.32	4803	4364	1.57			2.9	532	483	1.06		
0.35	4323	3928	1.74			3.2	482	438	1.17		
0.40	3868	3514	1.94			3.6	427	388	1.32		
0.42	3674	3338	2.05	R 107R77 RF107R77	4	4.1	370	336	1.53	R 57R37 RF57R37	4
0.47	3224	2929	2.33			4.8	316	287	1.79		
0.31	4881	4435	0.83			5.5	281	255	2.01		
0.36	4260	3870	0.95			3.0	518	471	0.82		
0.42	3634	3302	1.11			3.1	488	443	0.87		
0.46	3299	2997	1.23			3.4	451	410	0.94		
0.53	2885	2621	1.40			3.9	395	359	1.07		
0.62	2479	2252	1.63			4.3	357	324	1.19		
0.68	2246	2041	1.80			4.4	351	319	1.20		
0.71	2169	1971	1.86			4.8	319	290	1.33		
0.77	1995	1813	2.03	R 97R57 RF97R57	4	5.2	294	267	1.44	R 47R37 RF47R37	4
0.88	1747	1587	2.31			5.3	288	262	1.47		
1.0	1529	1389	2.64			5.7	271	246	1.56		
1.1	1338	1216	3.02			5.8	265	241	1.59		
0.51	2996	2722	0.94			6.3	242	220	1.75		
0.52	2937	2668	0.96			6.5	237	215	1.79		
0.60	2544	2311	1.11			7.4	207	188	2.04		
0.62	2471	2245	1.14			8.7	175	159	2.42		
0.67	2287	2078	1.23			4.6	331	301	0.85	R 37R17 RF37R17	4
0.69	2219	2016	1.27			5.5	281	255	1.00		
0.80	1907	1733	1.48			6.1	251	228	1.12		
0.86	1786	1623	1.58	R 87R57 RF87R57	4	7.1	215	195	1.31	R 27R17 RF27R17	4
0.97	1578	1434	1.79			6.2	249	226	0.8		
1.2	1328	1207	2.12			6.9	222	202	0.85		
1.3	1193	1084	2.36			7.0	219	199	0.86		
1.5	1028	934	2.74			7.8	197	179	0.95		
1.6	966	878	2.92			8.9	173	157	1.09		
1.8	831	755	3.39			9.1	172	156	1.11		
0.79	1912	1737	0.8			9.3	165	150	1.14		
0.80	1907	1733	0.85			9.9	155	141	0.8	R 77 RF77	6
0.91	1677	1524	0.87			10	149	135	0.82		
0.93	1639	1489	0.89			11	136	124	0.90		
1.0	1535	1395	0.95			12	130	118	0.94		
1.1	1356	1232	1.07			13	121	110	1.01		
1.2	1260	1145	1.16			14	114	104	1.07		
1.3	1141	1037	1.28			15	103	94	1.18		
1.5	1025	931	1.42	R 77 RF77	6	4.4	371	195.24	2.1		
1.6	972	883	1.50			5.1	317	166.59	2.4		
1.7	883	802	1.65			5.8	277	145.67	2.8		
1.8	852	774	1.71			6.1	263	138.39	2.9		
						7.0	231	121.42	3.3		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type	Pole p
0.18kW						0.18kW					
7.1	227	195.24	3.4	R 77 RF77	4	11	144	123.91	0.85	R 27 RF27	4
8.3	194	166.59	4.0			13	123	105.49	1.00		
9.5	169	145.67	4.6			15	106	90.96	1.16		
10	161	138.39	4.8			16	99	84.78	1.24		
4.3	380	199.81	1.48	R 67 RF67	6	19	86	74.11	1.42		
4.6	350	184.07	1.61			20	81	69.47	1.51		
5.4	301	158.14	1.88			23	71	61.30	1.71		
6.2	262	137.67	2.2			25	65	55.87	1.88		
6.6	245	128.97	2.3			29	56	48.17	2.2		
7.5	217	113.94	2.6			31	52	44.90	2.3		
8.0	201	105.83	2.8			35	46	39.25	2.7		
8.9	182	95.91	3.1			38	44	36.79	2.8		
9.9	164	86.11	3.4			43	39	32.47	3.2		
11	141	74.17	4.0			48	35	28.78	3.5		
12	133	69.75	4.3			49	34	28.37	3.6		
7.0	232	199.81	2.4	R 67 RF67	4	53	31	26.09	3.9		
7.6	214	184.07	2.6			57	29	24.47	4.2		
8.8	184	158.14	3.1			62	26	22.32	4.6		
10	160	137.67	3.5			72	23	19.35	5.3		
11	150	128.97	3.8			77	21	18.08	5.7		
12	132	113.94	4.3			89	19	15.63	6.6		
13	123	105.83	4.6			105	16	13.28	7.8		
4.5	355	186.89	1.19	R 57 RF57	6	37	45	23.13	1.78	R 17 RF17	6
4.9	327	172.17	1.29			40	41	21.22	1.94		
5.7	281	147.92	1.50			47	35	18.06	2.28		
6.6	245	128.77	1.73			19	87	74.84	0.92	R 17 RF17	4
7.0	229	120.63	1.84			22	75	64.52	1.07		
7.4	217	186.89	1.95	R 57 RF57	4	23	70	60.14	1.14		
8.1	200	172.17	2.1			26	61	52.57	1.31		
9.4	172	147.92	2.5			28	57	49.28	1.39		
11	150	128.77	2.8			32	51	43.49	1.58		
12	140	120.63	3.0			34	47	40.49	1.70		
13	124	106.58	3.4			39	41	35.40	1.94		
14	115	98.99	3.7			42	39	33.18	2.07		
15	104	89.71	4.1			47	34	29.28	2.3		
7.9	206	176.88	1.37	R 47 RF47	4	54	30	25.96	2.6		
8.5	189	162.94	1.49			60	27	23.13	2.9		
9.9	163	139.99	1.73			63	26	22.06	3.1		
11	142	121.87	1.99			66	25	21.22	3.2		
12	133	114.17	2.1			77	21	18.06	3.7		
14	117	100.86	2.4			89	18	15.57	4.3		
15	109	93.68	2.6			96	17	14.52	4.6		
16	99	84.90	2.9			110	15	12.69	5.3		
18	89	76.23	3.2			117	14	11.89	5.7		
6.9	235	123.66	0.80	R 37 RF37	6	132	12	10.5	5.9		
8.1	200	105.28	0.94			149	11	9.31	6.1		
9.4	173	90.77	1.09			176	10	7.91	6.2		
10	161	84.61	1.17			184	9	7.55	6.5		
10	157	134.82	1.20	R 37 RF37	4	197	8	7.04	7.0		
11	144	123.66	1.31			226	7.5	6.15	7.2		
13	122	105.28	1.54			241	7	5.76	7.3		
15	106	90.77	1.78			273	6	5.09	7.9		
16	98	84.61	1.91			308	5	4.51	8.4		
19	86	73.96	2.2			363	4.5	3.83	10		
20	81	69.33	2.3			140	12	6.07	3.4	RX 67 RXF67	6
23	71	61.18	2.6			164	10	5.18	6.9		
25	65	55.76	2.9			188	9.0	4.53	8.6		
29	56	48.08	3.1			198	8.5	4.30	8.8		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type	Pole p
0.18kW						0.25kW					
229	7.4	6.07	5.5			0.69	3082	2016	0.92		
268	6.3	5.18	11			0.76	2787	1823	1.01		
307	5.5	4.53	13			0.80	2649	1733	1.06		
323	5.2	4.30	14			0.86	2481	1623	1.14		
369	4.6	3.77	18	RX 67	4	0.88	2420	1583	1.17	R 97R57	4
434	3.9	3.20	24	RXF67	4	1.0	2134	1396	1.32	RF97R57	4
481	3.5	2.89	28			1.1	1877	1228	1.50		
547	3.1	2.54	36			1.3	1633	1068	1.73		
579	2.9	2.40	40			1.5	1432	937	1.97		
681	2.5	2.04	51			1.7	1260	824	2.2		
						1.9	1127	737	2.5		
						2.2	965	631	2.9		
155	11	5.50	3.36			1.2	1750	1145	0.83		
168	10	5.07	3.37	RX 57	6	1.3	1585	1037	0.92		
195	8.6	4.35	7.4	RXF57	6	1.5	1423	931	1.02		
224	7.5	3.79	8.5			1.6	1350	883	1.08		
						1.7	1226	802	1.19		
253	6.7	5.50	5.50			1.8	1183	774	1.23	R 87R57	4
274	6.1	5.07	5.51			2.0	1044	683	1.40	RF87R57	4
320	5.3	4.35	12			2.3	916	599	1.59		
367	4.6	3.79	14			2.6	803	525	1.82		
392	4.3	3.55	15	RX 57	4	3.1	694	454	2.1		
443	3.8	3.14	16	RXF57	4	5.2	408	267	3.6		
478	3.5	2.91	18								
527	3.2	2.64	20			2.4	873	571	0.88		
586	2.9	2.37	23			2.5	836	547	0.92		
681	2.5	2.04	26			2.9	729	477	1.06		
724	2.3	1.92	28			3.3	651	426	1.18	R 77R37	4
842	2.0	1.65	32			3.8	556	364	1.39	RF77R37	4
						4.5	477	312	1.62		
426	4	3.26	3.80	RX 37	4	4.6	474	310	1.63		
527	3	2.64	4.69	RXF37	4	5.6	379	248	2.03		
						6.3	335	219	2.3		
0.25kW											
0.14	14894	9743	0.82			3.6	593	388	0.95		
0.16	12907	8443	0.95			3.9	549	359	1.03		
0.19	11170	7307	1.09			4.1	514	336	1.10		
0.22	9855	6447	1.24	R 147R77	4	4.5	474	310	1.19		
0.25	8512	5568	1.44	RF147R77	4	4.8	439	287	1.29		
0.29	7361	4815	1.66			5.3	404	264	1.40		
0.32	6612	4325	1.85			5.5	390	255	1.45	R 67R37	4
0.38	5609	3669	2.18			5.9	359	235	1.57	RF67R37	4
0.43	4935	3228	2.48			6.1	350	229	1.61		
0.49	4331	2833	2.82			6.9	307	201	1.84		
						7.1	298	195	1.89		
0.24	8918	5834	0.84			7.7	277	181	2.0		
0.28	7645	5001	0.98			8.1	263	172	2.15		
0.30	7199	4709	1.04			9.0	235	154	2.40		
0.32	6671	4364	1.13								
0.35	6142	4018	1.22			4.3	495	324	0.85		
0.37	6005	3928	1.25	R 137R77	4	4.4	488	319	0.87		
0.40	5372	3514	1.40	RF137R77	4	4.8	443	290	0.95		
0.42	5103	3338	1.47			5.2	408	267	1.04		
0.47	4478	2929	1.68			5.3	401	262	1.06		
0.52	4063	2658	1.85			5.7	376	246	1.12	R 57R37	4
0.58	3687	2414	2.0			5.8	368	241	1.15	RF57R37	4
0.67	3169	2073	2.4			6.3	336	220	1.26		
0.76	2811	1839	2.7			6.5	329	215	1.29		
0.99	2136	1397	3.5			7.6	280	183	1.51		
1.1	1874	1226	4.0			8.6	246	161	1.72		
						10	211	138	2.0		
0.46	4609	3015	0.88								
0.71	3013	1971	1.34			6.1	349	228	0.81	R 47R37	4
0.77	2772	1813	1.46			7.1	298	195	0.95	RF47R37	4
0.88	2426	1587	1.67	R 107R77	4	7.6	278	182	1.01		
1.0	2123	1389	1.90	RF107R77	4	9.0	235	154	1.20		
1.1	1859	1216	2.2								
1.5	1417	927	2.9								
1.7	1241	812	3.3								

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole				
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p				
0.25kW						0.25kW									
8.9	238	156	0.79	R 37R17 RF37R17	4	7.4	308	186.89	1.37	R 57 RF57	4				
9.3	229	150	0.82			8.1	284	172.17	1.49						
10	206	135	0.91			9.4	244	147.92	1.73						
11	194	127	0.97			11	212	128.77	1.99						
12	168	110	1.12			12	199	120.63	2.1						
13	159	104	1.18			13	176	106.58	2.4						
14	144	94	1.31			14	163	98.99	2.6						
15	138	90	1.37	15	148	89.71	2.9								
						17	133	80.55	3.2						
2.2	1029	289.60	2.7	R 97 RF97	8	20	114	69.23	3.7						
2.5	913	256.89	3.1			7.9	292	176.88	0.97						
2.7	856	240.83	3.3			8.5	269	162.94	1.05						
3.0	767	215.94	3.7			9.9	231	139.99	1.22						
2.6	876	246.54	1.66	R 87 RF87	8	11	201	121.87	1.40	R 47 RF47	4				
3.0	769	216.54	1.89			12	188	114.17	1.50						
3.1	731	205.71	1.99			14	166	100.86	1.70						
3.5	646	181.77	2.3			15	154	93.68	1.83						
3.9	592	166.59	1.30	R 77 RF77	8	16	140	84.90	2.0						
4.4	518	145.67	1.49			18	126	76.23	2.2						
4.7	492	138.39	1.57			20	113	68.54	2.5						
5.3	431	121.42	1.79			22	106	64.21	2.7						
						25	94	56.73	3.0						
						26	87	52.69	3.2						
4.4	526	195.24	1.46	R 77 RF77	6	29	79	47.75	3.6						
5.1	449	166.59	1.72			10	222	134.82	0.85						
5.8	393	145.67	1.96			11	204	123.66	0.92						
7.1	322	195.24	2.4	R 77 RF77	4	13	175	105.28	1.08			R 37 RF37	4		
8.3	275	166.59	2.8			15	150	90.77	1.26						
9.5	240	145.67	3.2			16	140	84.61	1.35						
10	228	138.39	3.4			19	122	73.96	1.54						
11	200	121.42	3.8			20	114	69.33	1.64						
						23	101	61.18	1.86						
4.1	562	158.14	1.00	R 67 RF67	8	25	92	55.76	2.0						
4.7	489	137.67	1.15			29	79	48.08	2.4						
5.0	458	128.97	1.23			31	74	44.81	2.5						
5.7	405	113.94	1.39			35	65	39.17	2.9						
						38	61	36.72	3.1						
4.3	539	199.81	1.05	R 67 RF67	6	43	53	32.40	3.5						
4.6	496	184.07	1.14			16	140	84.78	0.87						
5.4	426	158.14	1.32			19	122	74.11	1.00						
6.2	371	137.67	1.52			20	115	69.47	1.07						
6.6	348	128.97	1.62			23	101	61.30	1.21						
7.5	307	113.94	1.84			25	92	55.87	1.33						
8.0	285	105.83	1.98			29	79	48.17	1.54						
						31	74	44.90	1.65						
7.0	329	199.81	1.71	R 67 RF67	4	35	65	39.25	1.89	R 27 RF27	4				
7.6	304	184.07	1.86			38	61	36.79	2.0						
8.8	261	158.14	2.2			43	54	32.47	2.3						
10	227	137.67	2.5			48	48	28.78	2.5						
11	213	128.97	2.7			49	47	28.37	2.6						
12	188	113.94	3.0			53	43	26.09	2.8						
13	175	105.83	3.2			57	40	24.47	3.0						
14	158	95.91	3.6			62	37	22.32	3.3						
16	142	86.11	4.0			72	32	19.35	3.8						
						77	30	18.08	4.1						
4.5	504	186.89	0.84	R 57 RF57	6	89	26	15.63	4.7						
4.9	464	172.17	0.91			105	22	13.28	5.6						
5.7	399	147.92	1.06			117	20	11.86	6.2						
6.6	347	128.77	1.22			137	17	10.13	6.9						
7.0	325	120.63	1.30			148	16	9.41	7.4						
8.0	287	106.58	1.47			170	14	8.16	8.1						
8.6	267	98.99	1.58			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						

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p
0.25kW						0.37kW					
26	87	52.57	0.92	R 17 RF17	4	0.19	16532	7307	0.80	R 147R77 RF147R77	4
28	81	49.28	0.98			0.22	14586	6447	0.84		
32	72	43.49	1.11			0.25	12597	5568	0.97		
34	67	40.49	1.20			0.29	10894	4815	1.12		
39	58	35.40	1.37			0.32	9785	4325	1.25		
42	55	33.18	1.46			0.38	8301	3669	1.47		
47	48	29.28	1.65			0.43	7303	3228	1.67	R 137R77 RF137R77	4
54	43	25.96	1.87			0.49	6410	2833	1.91		
60	38	23.13	2.1			0.32	9873	4364	0.76		
63	36	22.06	2.2			0.35	8887	3928	0.85		
66	35	21.22	2.3			0.40	7950	3514	0.95		
77	30	18.06	2.7			0.42	7552	3338	1.00		
89	26	15.57	3.1			0.47	6627	2929	1.13		
96	24	14.52	3.3			0.52	6014	2658	1.25		
110	21	12.69	3.8			0.56	5620	2484	1.34		
117	20	11.89	4.1			0.58	5457	2412	1.38		
132	17	10.5	4.2			0.62	5072	2242	1.48		
149	15	9.31	4.4			0.67	4690	2073	1.60		
176	13	7.91	4.5			0.76	4161	1839	1.81		
184	12	7.55	4.7			0.99	3161	1397	2.4		
197	11	7.04	5.0			1.1	2774	1226	2.7		
226	10	6.15	5.2	RX 67 RXF67	6	1.3	2466	1090	3.0	R 107R77 RF107R77	4
241	9	5.76	5.3			1.5	2152	951	3.5		
273	8	5.09	5.7			0.68	4618	2041	0.88		
308	7	4.51	6.1			0.71	4459	1971	0.91		
363	6	3.83	6.7			0.77	4102	1813	0.99		
140	16	6.07	2.5	RX 67 RXF67	4	0.83	3785	1673	1.07		
164	14	5.18	4.9			0.88	3591	1587	1.13		
188	13	4.53	6.2			0.91	3464	1531	1.17		
198	12	4.30	6.4			1.0	3145	1390	1.29		
229	10	6.07	4.0			1.1	2751	1216	1.47		
268	9	5.18	8.1			1.2	2701	1194	1.50		
307	8	4.53	10			1.3	2360	1043	1.71		
323	7	4.30	10			1.5	2097	927	1.93		
369	6	3.77	13			1.7	1837	812	2.2		
434	5.5	3.20	17			0.97	3244	1434	0.87	R 97R57 RF97R57	4
481	5	2.89	20	RX 57 RXF57	6	1.0	3158	1396	0.89		
547	4.5	2.54	26			1.1	2778	1228	1.02		
579	4	2.40	29			1.2	2731	1207	1.03		
681	3	2.04	37			1.3	2453	1084	1.15		
155	15	5.50	2.4			1.4	2416	1068	1.17		
168	14	5.07	2.4	RX 57 RXF57	4	1.5	2120	937	1.33		
195	12	4.35	5.3			1.7	1864	824	1.51		
224	10	3.79	6.2			1.9	1667	737	1.69		
253	9.3	5.50	4.0			2.2	1428	631	1.98		
274	8.5	5.07	4.0			3.2	973	430	2.9		
320	7.3	4.35	9.0			3.7	857	379	3.3		
367	6.4	3.79	10			4.1	760	336	3.7		
392	6.0	3.55	11			1.7	1814	802	0.80	R 87R57 RF87R57	4
443	5.3	3.14	12			1.8	1751	774	0.83		
478	4.9	2.91	13			1.9	1706	754	0.85		
527	4.4	2.64	15			2.0	1545	683	0.94		
586	4.0	2.37	16			2.1	1468	649	0.99		
681	3.4	2.04	19			2.3	1355	599	1.08		
724	3.2	1.92	20			2.5	1217	538	1.20		
842	2.8	1.65	23			2.6	1188	525	1.23		
370	6	3.76	2.37	RX 37 RXF37	4	2.9	1068	472	1.36		
426	5.5	3.26	2.73			3.1	1027	454	1.42		
456	5	3.05	2.92			3.5	905	400	1.61		
527	4.5	2.64	3.38			3.9	817	361	1.78		
621	4	2.24	3.98			5.2	604	267	2.4		
695	3.5	2.00	4.46			5.9	532	235	2.7		
813	3	1.71	5.21								
869	2.5	1.60	5.57								

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p
0.37kW						0.37kW					
3.3	964	426	0.80	R 77R37 RF77R37	4	6.6	503	128.77	0.84	R 57 RF57	6
3.8	824	364	0.94			7.0	471	120.63	0.90		
4.3	740	327	1.04			8.0	416	106.58	1.02		
4.5	701	310	1.10			8.6	387	98.99	1.09		
5.6	561	248	1.37			7.4	447	186.89	0.95	R 57 RF57	4
6.3	495	219	1.56			8.1	411	172.17	1.03		
7.4	425	188	1.81			9.4	353	147.92	1.20		
8.6	367	162	2.1			11	308	128.77	1.37		
9.8	321	142	2.4			12	288	120.63	1.47		
4.8	649	287	0.87	R 67R37 RF67R37	4	13	255	106.58	1.66		
5.5	577	255	0.98			14	237	98.99	1.79		
6.1	518	229	1.09			15	214	89.71	1.97		
7.1	441	195	1.28			17	192	80.55	2.2		
2.5	1323	256.89	2.1	R 97 RF97	8	20	165	69.23	2.6		
2.7	1240	240.83	2.3			21	155	64.85	2.7		
3.0	1112	215.94	2.5			24	137	57.29	3.1		
3.5	958	185.97	2.9			26	127	53.22	3.3		
2.9	1132	289.60	2.5	R 97 RF97	6	29	115	48.23	3.7		
3.3	1004	256.89	2.8			9.9	335	139.99	0.84	R 47 RF47	4
3.5	941	240.83	3.0			11	291	121.87	0.97		
3.9	844	215.94	3.3			12	273	114.17	1.03		
3.0	1115	216.54	1.31	R 87 RF87	8	14	241	100.86	1.17		
3.1	1059	205.71	1.38			15	224	93.68	1.26		
3.5	936	181.77	1.6			16	203	84.90	1.39		
3.4	963	246.54	1.51	R 87 RF87	6	18	182	76.23	1.55		
3.9	846	216.54	1.72			20	164	68.54	1.72		
4.1	804	205.71	1.81			22	153	64.21	1.84		
4.7	710	181.77	2.1			25	136	56.73	2.1		
5.5	607	155.34	2.4			26	126	52.69	2.2		
6.0	556	142.41	2.6			29	114	47.75	2.5		
4.4	750	145.67	1.03	R 77 RF77	8	32	102	42.87	2.6		
4.7	713	138.39	1.08			38	88	36.93	2.7		
5.3	625	121.42	1.23			40	83	34.73	2.8		
5.1	651	166.59	1.18	R 77 RF77	6	41	81	33.79	3.2		
5.8	569	145.67	1.35			45	74	31.12	3.4		
6.1	541	138.39	1.43			52	64	26.74	4.4		
7.1	467	195.24	1.65	R 77 RF77	4	60	56	23.28	5.1		
8.3	398	166.59	1.94			64	52	21.81	5.4		
9.5	348	145.67	2.2			15	217	90.77	0.87	R 37 RF37	4
10	331	138.39	2.3			16	202	84.61	0.93		
11	290	121.42	2.7			19	177	73.96	1.06		
13	246	102.99	3.1			20	166	69.33	1.13		
15	222	92.97	3.47			23	146	61.18	1.29		
5.4	618	158.14	0.91	R 67 RF67	6	25	133	55.76	1.41		
6.2	538	137.67	1.05			29	115	48.08	1.64		
6.6	504	128.97	1.12			31	107	44.81	1.76		
7.5	445	113.94	1.27			35	94	39.17	2.0		
7.0	477	199.81	1.18	R 67 RF67	4	38	88	36.72	2.1		
7.6	440	184.07	1.28			43	77	32.40	2.4		
8.8	378	158.14	1.49			48	69	28.73	2.7		
10	329	137.67	1.71			49	68	28.32	2.8		
11	308	128.97	1.83			53	62	26.03	2.9		
12	272	113.94	2.1			57	58	24.42	3.2		
13	253	105.83	2.2			62	53	22.27	3.5		
14	229	95.91	2.5			72	46	19.31	4.1		
16	206	86.11	2.7			77	43	18.05	4.4		
19	177	74.17	3.2			89	38	15.60	4.9		
20	167	69.75	3.4			105	32	13.25	5.5		
23	146	61.26	3.9			117	29	11.83	6.0		
24	136	56.89	4.1								

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole				
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p				
0.37kW						0.37kW									
23	146	61.30	0.83	R 27 RF27	4	253	13.7	5.50	2.7	RX 57 RXF57	4				
25	134	55.87	0.92			274	12.6	5.07	2.7						
29	115	48.17	1.06			320	10.8	4.35	5.9						
31	107	44.90	1.14			367	9.4	3.79	6.9						
35	94	39.25	1.30			392	8.8	3.55	7.3						
38	88	36.79	1.39			443	7.8	3.14	7.8						
43	78	32.47	1.57			478	7.2	2.91	8.7						
48	69	28.78	1.78			527	6.6	2.64	9.9						
49	68	28.37	1.80			586	5.9	2.37	11						
53	62	26.09	1.96			681	5.1	2.04	13						
57	58	24.47	2.1			724	4.8	1.92	14						
62	53	22.32	2.3			842	4.1	1.65	16						
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	R 17 RF17	4	426	8.1	3.26	1.85	RX 37 RXF37	4				
42	79	33.18	1.01			456	7.6	3.05	1.97						
47	70	29.28	1.14			527	6.6	2.64	2.28						
54	62	25.96	1.29			621	5.6	2.24	2.69						
60	55	23.13	1.45			695	5.0	2.00	3.01						
63	53	22.06	1.52			813	4.3	1.71	3.52						
66	51	21.22	1.58			869	4.0	1.60	3.76						
77	43	18.06	1.85												
89	37	15.57	2.1												
96	35	14.52	2.3												
110	30	12.69	2.6												
117	28	11.89	2.8												
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	R 147R77 RF147R77	4	0.23	20411	6069	0.83	R 167R97 RF167R97	4				
226	15	6.15	3.5			0.26	18157	5399	0.93						
241	14	5.76	3.6			0.30	15837	4709	1.07						
273	12	5.09	3.9			0.33	14065	4182	1.20						
308	11	4.51	4.2												
363	9	3.83	4.6												
164	21	5.18	3.3												
188	19	4.53	4.2												
198	18	4.30	4.3												
225	15	3.77	5.3												
229	15	6.07	2.7			RX 67 RXF67	4	0.29	16193			4815	0.75	R 137R77 RF137R77	4
268	13	5.18	5.5					0.32	14545			4325	0.84		
307	12	4.53	6.8					0.38	12339			3669	0.99		
323	11	4.30	7.0					0.43	10856			3228	1.13		
369	9	3.77	8.7					0.49	9528			2833	1.28		
434	8	3.20	12	0.54	8593			2555	1.42						
481	7	2.89	14	0.63	7436			2211	1.64						
547	6.3	2.54	18	0.71	6561			1951	1.86						
579	6.0	2.40	19	0.82	5734			1705	2.1						
681	5.1	2.04	25	0.90	5166			1536	2.4						
				1.05	4470			1329	2.7						
				1.19	3921			1166	3.1						

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.55kW						0.55kW					
1.5	3151	937	0.89	R 97R57 RF97R57	4 4	8.8	562	158.14	1.00	R 67 RF67	4 4
1.7	2771	824	1.02			10	489	137.67	1.15		
1.9	2479	737	1.14			11	458	128.97	1.23		
2.2	2122	631	1.33			12	405	113.94	1.39		
2.5	1883	560	1.50			13	376	105.83	1.50		
2.9	1628	484	1.73			14	341	95.91	1.66		
3.2	1446	430	1.95			16	306	86.11	1.84		
3.7	1275	379	2.2			19	263	74.17	2.1		
4.1	1130	336	2.5			20	248	69.75	2.3		
4.7	995	296	2.8			23	218	61.26	2.6		
5.6	837	249	3.4			24	202	56.89	2.8		
2.6	1766	525	0.83	R 87R57 RF87R57	4 4	12	428	120.63	0.99	R 57 RF57	4 4
2.9	1587	472	0.92			13	379	106.58	1.12		
3.1	1527	454	0.95			14	352	98.99	1.20		
3.5	1345	400	1.08			15	319	89.71	1.33		
3.6	1332	396	1.09			17	286	80.55	1.48		
3.9	1214	361	1.20	R 77R37 RF77R37	4 4	20	246	69.23	1.72		
4.0	1180	351	1.23			21	230	64.85	1.84		
4.6	1026	305	1.42			24	203	57.29	2.1		
5.1	925	275	0.83			26	189	53.22	2.2		
5.9	794	236	0.97			29	171	48.23	2.5		
6.3	743	221	1.04	R 97 RF97	8 8	32	154	43.30	2.8		
7.8	599	178	1.29			37	132	37.30	3.2		
2.6	1893	256.89	1.50			40	125	35.07	3.4		
2.8	1775	240.83	1.59			53	93	26.31	4.5		
3.1	1591	215.94	1.77			56	89	24.99	4.8		
2.9	1682	289.60	1.68	R 97 RF97	6 6	63	78	21.93	5.4		
3.3	1492	256.89	1.90			75	66	18.60	6.4		
3.5	1399	240.83	2.0			15	333	93.68	0.85	R 47 RF47	4 4
3.9	1254	215.94	2.2			16	302	84.90	0.94		
4.8	1029	289.60	2.7			18	271	76.23	1.04		
5.4	912	256.89	3.1			20	243	68.54	1.16		
5.8	855	240.83	3.3	R 97 RF97	4 4	22	228	64.21	1.24		
6.4	767	215.94	3.7			25	202	56.73	1.40		
3.6	1375	246.54	1.06			26	187	52.69	1.51		
4.1	1208	216.54	1.21			29	170	47.75	1.66		
4.3	1148	205.71	1.27	R 87 RF87	6 6	32	152	42.87	1.85		
4.9	1014	181.77	1.44			38	131	36.93	2.1		
5.7	867	155.34	1.68			40	123	34.73	2.3		
5.6	876	246.54	1.66			47	106	29.88	2.7		
6.4	769	216.54	1.89			52	95	26.74	3.0		
6.8	731	205.71	2.0	R 87 RF87	4 4	60	83	23.28	3.4	R 37 RF37	4 4
7.6	646	181.77	2.3			64	77	21.81	3.6		
8.9	552	155.34	2.6			23	217	61.18	0.87		
9.8	506	142.41	2.9			25	198	55.76	0.95		
11	444	124.97	3.3			29	171	48.08	1.10		
12	421	118.43	3.5	R 77 RF77	4 4	31	159	44.81	1.18		
13	368	103.65	4.0			35	139	39.17	1.35		
8.3	592	166.59	1.30			38	130	36.72	1.44		
9.5	517	145.67	1.49			43	115	32.40	1.63		
10	492	138.39	1.57			48	102	28.73	1.84		
11	431	121.42	1.79			57	87	24.42	2.2		
13	366	102.99	2.1			62	79	22.27	2.4		
15	330	92.97	2.3			72	69	19.31	2.7		
17	291	81.80	2.7			77	64	18.05	2.9		
18	274	77.24	2.8			89	55	15.60	3.4		
21	234	65.77	3.3			105	47	13.25	4.0		
						117	42	11.83	4.5		

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole		
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p		
0.55kW						0.55kW							
35	139	39.25	0.88	R 27 RF27	4	320	16	4.35	4.0	RX 57 RXF57	4		
38	131	36.79	0.94			367	14	3.79	4.6				
43	115	32.47	1.06			392	13	3.55	4.9				
48	102	28.78	1.20			443	12	3.14	5.3				
57	87	24.47	1.41			478	11	2.91	5.8				
62	79	22.32	1.54			527	10	2.64	6.6				
72	69	19.35	1.78			586	8.8	2.37	7.4				
77	64	18.08	1.90			681	7.6	2.04	8.6				
89	56	15.63	2.2			724	7.1	1.92	9.1				
105	47	13.28	2.6			842	6.1	1.65	11				
117	42	11.86	2.9			939	5.8	1.48	12				
137	36	10.13	3.2			1069	4.8	1.30	12				
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	R 17 RF17	4	0.30	21596	4709	0.8	R 167R97 RF167R97	4		
89	55	15.57	1.44			0.33	19179	4182	0.88				
96	52	14.52	1.55			0.52	12185	2657	1.39				
110	45	12.69	1.77			0.60	10699	2333	1.58				
117	42	11.89	1.89			0.67	9562	2085	1.77				
132	37	10.50	1.9			0.95	6677	1456	2.5				
149	33	9.31	2.0										
161	31	8.63	2.1										
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			RX 67 RXF67	6	0.67	9507	2073	0.79	R 137R77 RF137R77	4
195	26	4.53	2.9	0.7	8544			1863	0.88				
206	25	4.30	3.0	0.76	8434			1839	0.89				
235	22	3.77	3.7	0.87	7287			1589	1.03				
				0.9	7273			1586	1.03				
268	19	5.18	3.7	RX 67 RXF67	4	0.99	6407	1397	1.17				
307	17	4.53	4.6			1.0	6237	1360	1.21				
323	16	4.30	4.7			1.1	5632	1228	1.34				
369	14	3.77	5.9			1.2	5623	1226	1.34				
434	12	3.20	7.9			1.3	4999	1090	1.50				
481	11	2.89	9.3			1.5	4361	951	1.72				
547	9.4	2.54	12			1.7	3811	831	1.97				
579	8.9	2.40	13			1.9	3348	730	2.2				
681	7.6	2.04	17										
747	6.9	1.86	17										
863	6.0	1.61	18										
203	25	4.35	2.5			RX 57 RXF57	6	1.3	5022	1095	0.80	R 107R77 RF107R77	4
234	22	3.79	2.9					1.4	4783	1043	0.85		
249	21	3.55	3.1					1.5	4251	927	0.95		
282	18	3.14	3.3	1.6	4072			888	0.99				
304	17	2.91	3.7	1.7	3724			812	1.09				

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
0.75kW						0.75kW					
3.5	1816	396	0.80	R 87R57 RF87R57	4	13	516	106.58	0.82	R 57 RF57	4
3.9	1656	361	0.91			14	479	98.99	0.88		
4.0	1610	351	1.04			15	435	89.71	0.97		
4.6	1399	305	1.19			17	390	80.55	1.08		
4.7	1376	300	1.35			20	335	69.23	1.26		
5.2	1224	267	1.70			21	314	64.85	1.35		
5.4	1174	256	2.0			24	277	57.29	1.52		
5.9	1078	235	2.4	R 107 RF107	8	26	258	53.22	1.64	R 47 RF47	4
2.8	2445	245.50	1.65			29	234	48.23	1.81		
3.0	2259	226.11	1.81			32	210	43.30	2.0		
3.4	1995	200.87	2.0			37	181	37.30	2.3		
3.1	2138	215.94	1.32			40	170	35.07	2.5		
3.7	1841	185.97	1.53			46	146	30.18	2.9		
4.0	1674	169.06	1.68			52	131	26.97	3.2		
3.6	1901	256.89	1.49	R 97 RF97	6	53	130	26.31	3.3	R 27 RF27	4
3.8	1782	240.83	1.58			56	124	24.99	3.4		
4.2	1598	215.94	1.76			63	108	21.93	3.9		
4.8	1403	289.60	2.0			75	92	18.60	4.6		
5.4	1244	256.89	2.3			20	332	68.54	0.85		
5.8	1167	240.83	2.4			22	311	64.21	0.91		
6.4	1046	215.94	2.7			25	275	56.73	1.03		
7.5	901	185.97	3.1	R 97 RF97	4	26	255	52.69	1.10		
8.2	819	169.06	3.4			29	231	47.75	1.22		
4.2	1602	216.54	0.91			32	208	42.87	1.36		
4.4	1522	205.71	0.96			38	179	36.93	1.58		
5.0	1345	181.77	1.08			40	168	34.73	1.68		
5.9	1149	155.34	1.27			47	145	29.88	1.95		
6.4	1054	142.41	1.38			52	130	26.74	2.2		
5.6	1194	246.54	1.22	R 87 RF87	4	53	129	26.70	2.2		
6.4	1049	216.54	1.39			59	114	23.59	2.5		
6.8	996	205.71	1.46			60	113	23.28	2.5		
7.6	880	181.77	1.65			64	106	21.81	2.7		
8.9	752	155.34	1.94			72	93	19.27	3.0		
9.8	690	142.41	2.1			78	87	17.89	3.1		
11	605	124.97	2.4			86	79	16.22	3.3		
12	574	118.43	2.5	R 87 RF87	4	29	233	48.08	0.81	R 37 RF37	4
13	502	103.65	2.9			31	217	44.81	0.87		
15	452	93.38	3.2			35	190	39.17	0.99		
8.3	807	166.59	0.96			38	178	36.72	1.06		
9.5	706	145.67	1.09			43	157	32.40	1.20		
10	670	138.39	1.15			48	139	28.73	1.35		
11	588	121.42	1.31			57	118	24.42	1.59		
13	499	102.99	1.55	R 77 RF77	4	62	110	22.27	1.71		
15	450	92.97	1.71			72	96	19.31	1.97		
17	396	81.80	1.95			77	89	18.05	2.1		
18	375	77.24	2.1			89	77	15.60	2.4		
21	319	65.77	2.4			105	66	13.25	2.7		
25	273	56.38	2.8			117	59	11.83	2.9		
27	247	50.90	3.1			137	50	10.11	3.2		
31	217	44.78	3.6	R 67 RF67	4	147	47	9.47	3.4		
33	205	42.29	3.8			48	139	28.78	0.88	R 27 RF27	4
11	625	128.97	0.90			57	119	24.47	1.03		
12	552	113.94	1.02			62	110	22.32	1.11		
13	513	105.83	1.10			72	96	19.35	1.28		
14	465	95.91	1.21			77	89	18.08	1.37		
16	417	86.11	1.35			89	77	15.63	1.58		
19	359	74.17	1.57			105	66	13.28	1.86		
20	338	69.75	1.67	R 57 RF57	4	117	59	11.86	2.1		
23	297	61.26	1.90			137	50	10.13	2.3		
24	276	56.89	2.0			148	47	9.41	2.5		
27	250	51.56	2.3			170	40	8.16	2.7		
30	224	46.29	2.5			182	38	7.63	2.8		
						211	33	6.59	3.1		
						248	28	5.60	3.4		
						278	25	5.00	3.6		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p
0.75kW						1.1kW					
77	89	18.06	0.89	R 17 RF17	4	0.53	17744	2657	0.95	R 167R97 RF167R97	4
89	77	15.57	1.04			0.60	15580	2333	1.09		
96	72	14.52	1.11			0.67	13924	2085	1.22		
110	63	12.69	1.27			0.75	12535	1877	1.35		
117	59	11.89	1.36			0.84	11153	1670	1.52		
132	52	10.50	1.41			0.96	9723	1456	1.74		
149	46	9.31	1.47			1.1	8655	1296	2.0	R 147R77 RF147R77	4
176	39	7.91	1.48			1.2	7593	1137	2.2		
184	37	7.55	1.57			0.63	14765	2211	0.83		
197	35	7.04	1.67			0.72	13029	1951	0.94		
226	30	6.15	1.73			0.82	11386	1705	1.07		
241	28	5.76	1.75			0.91	10258	1536	1.19		
273	25	5.09	1.90			1.1	8875	1329	1.38		
308	22	4.51	2.0			1.2	7787	1166	1.57		
363	19	3.83	2.2			1.4	6872	1029	1.78		
201	35	4.53	2.2	RX 67 RXF67	6	1.6	5937	889	2.1		
212	33	4.30	2.3			1.8	5236	784	2.3		
241	29	3.77	2.8			2.0	4641	695	2.6		
284	25	3.20	3.8			1.0	9082	1360	0.83	R 137R77 RF137R77	4
268	26	5.18	2.7	RX 67 RXF67	4	1.1	8201	1228	0.92		
307	23	4.53	3.4			1.2	8187	1226	0.92		
323	22	4.30	3.5			1.3	7279	1090	1.03		
369	19	3.77	4.3			1.3	7212	1080	1.04		
434	16	3.20	5.8			1.4	6812	1020	1.10		
481	15	2.89	6.8			1.5	6351	951	1.18		
547	13	2.54	8.6			1.6	5803	869	1.30		
579	12	2.40	9.5			1.7	5550	831	1.36		
681	10	2.04	12			1.9	4875	730	1.54		
747	9	1.86	13			2.2	4201	629	1.79		
863	8	1.61	13			2.6	3666	549	2.1		
240	29	3.79	2.2	RX 57 RXF57	6	2.9	3272	490	2.3	R 107R77 RF107R77	4
256	27	3.55	2.4			2.0	4621	692	0.87		
290	24	3.14	2.5			2.3	3994	598	1.01		
313	22	2.91	2.8			2.6	3539	530	1.14		
345	20	2.64	3.2	RX 57 RXF57	4	2.9	3199	479	1.26		
320	22	4.35	2.9			3.4	2711	406	1.49		
367	19	3.79	3.4			3.9	2384	357	1.70		
392	18	3.55	3.6			4.5	2090	313	1.93		
443	16	3.14	3.9			5.1	1850	277	2.2		
478	15	2.91	4.3			5.7	1636	245	2.5		
527	13	2.64	4.9			3.3	2872	430	0.98	R 97R57 RF97R57	4
586	12	2.37	5.4			3.7	2531	379	1.11		
681	11	2.04	6.3			4.2	2244	336	1.26		
724	10	1.92	6.7			4.7	1977	296	1.43		
842	9	1.65	7.8			5.6	1663	249	1.70		
939	8	1.48	8.6			6.0	1563	234	1.80		
1069	7	1.30	9.0			6.7	1396	209	2.0	R 87R57 RF87R57	4
456	15	3.05	0.97	RX 37 RXF37	4	5.2	1783	267	0.82		
527	13	2.64	1.13			5.5	1710	256	0.85		
621	11	2.24	1.33			6.0	1569	235	0.93		
695	10	2.00	1.49			6.1	1543	231	0.94		
813	9	1.71	1.74			6.7	1389	208	1.05		
869	8	1.60	1.86			7.2	1302	195	1.12		
2.8	3586	245.50	1.13	R 107 RF107	8	3.0	3283	226.11	1.23		
3.4	2901	200.87	1.39			3.4	2901	200.87	1.39		
4.0	2461	167.29	1.64			4.0	2461	167.29	1.64		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.1kW						1.1kW					
3.5	2788	256.89	1.02	R 97 RF97	6	20	488	69.23	0.87	R 57 RF57	4
3.8	2613	240.83	1.08		6	22	457	64.85	0.92		
4.2	2343	215.94	1.20			24	404	57.29	1.05		
4.9	2018	185.97	1.39			26	375	53.22	1.13		
5.4	1812	256.89	1.56	R 97 RF97	4	29	340	48.23	1.24		
5.8	1699	240.83	1.66			32	305	43.30	1.39		
6.5	1523	215.94	1.85			38	263	37.30	1.61		
7.5	1312	185.97	2.1			40	247	35.07	1.71		
8.3	1192	169.06	2.4			46	213	30.18	1.99		
9.3	1064	150.78	2.7			52	190	26.97	2.2		
11	894	126.75	3.2			53	186	26.31	2.3		
12	822	116.48	3.4			56	176	24.99	2.4		
6.5	1527	216.54	0.95	R 87 RF87	4	64	155	21.93	2.7		
6.8	1451	205.71	1.00			75	131	18.60	3.2		
7.7	1282	181.77	1.14			83	118	16.79	3.6		
9.0	1096	155.34	1.33			29	337	47.75	0.84	R 47 RF47	4
9.8	1004	142.41	1.45			33	302	42.87	0.93		
11	881	124.97	1.65			38	260	36.93	1.08		
12	835	118.43	1.74			40	245	34.73	1.15		
14	731	103.65	1.99			47	211	29.88	1.34		
15	659	93.38	2.2			52	188	26.70	1.50		
17	578	81.92	2.5			59	166	23.59	1.69		
19	510	72.37	2.9			60	164	23.28	1.72		
22	448	63.50	3.3			64	154	21.81	1.83		
23	424	60.18	3.4			73	136	19.27	2.0		
27	372	52.67	3.9			78	126	17.89	2.2		
12	856	121.42	0.90	R 77 RF77	4	86	114	16.22	2.3		
14	726	102.99	1.06			96	103	14.56	2.4		
15	656	92.97	1.18			112	88	12.54	2.7		
17	577	81.80	1.34			119	83	11.79	2.8		
18	545	77.24	1.41			138	72	10.15	3.0		
21	464	65.77	1.66			154	64	9.07	3.2		
25	398	56.38	1.94			43	229	32.40	0.82	R 37 RF37	4
28	359	50.90	2.1			49	203	28.73	0.93		
31	316	44.78	2.4			57	172	24.42	1.09		
33	298	42.29	2.6			73	139	19.31	1.35		
39	254	36.01	3.0			78	130	18.05	1.45		
43	231	32.72	3.3			90	112	15.60	1.67		
16	607	86.11	0.93	R 67 RF67	4	106	95	13.25	1.87		
19	523	74.17	1.08			118	85	11.83	2.0		
20	492	69.75	1.15			138	73	10.11	2.2		
23	432	61.26	1.31			148	68	9.47	2.3		
25	401	56.89	1.41			176	57	7.97	2.6		
27	364	51.56	1.55			210	48	6.67	2.8		
30	326	46.29	1.73			247	41	5.67	3.3		
35	281	39.88	1.9			277	36	5.06	3.5		
37	265	37.50	2.0			72	139	19.35	0.88	R 27 RF27	4
43	228	32.27	2.2			77	130	18.08	0.94		
49	203	28.83	2.4			90	113	15.63	1.09		
50	201	28.13	2.5			105	96	13.28	1.25		
52	192	26.72	2.6			118	85	11.86	1.42		
60	169	23.44	3.1			138	73	10.13	1.57		
70	143	19.89	3.9			172	59	8.16	1.86		
						183	55	7.63	1.92		
						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		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p
1.1kW						1.5kW					
249	41	5.63	2.5	RX 77 RXF77	4	1.3	10038	1090	0.75	R 137R77 RF137R77	4
262	39	5.35	2.5		4	1.4	9393	1020	0.80		4
296	35	4.73	3.3		4	1.5	8758	951	0.86		4
201	51	4.53	1.50	RX 67 RXF67	6	1.6	8003	869	0.94		4
212	49	4.30	1.55		6	1.7	7653	831	0.98		4
241	43	3.77	1.92		6	1.9	6723	730	1.12		4
309	33	4.53	2.3	RX 67 RXF67	4	2.0	6299	684	1.19		4
326	32	4.30	2.4		4	2.2	5792	629	1.30		4
371	28	3.77	2.9		4	2.4	5479	595	1.37		4
438	24	3.20	4.0		4	2.6	5056	549	1.49		4
484	21	2.89	4.7		4	2.9	4512	490	1.67		4
551	19	2.54	5.9		4	3.3	3941	428	1.91		4
583	18	2.40	6.6		4	3.7	3444	374	2.2		4
686	15	2.04	8.4		4	4.4	2919	317	2.6		4
753	14	1.86	8.7		4	2.6	4827	530	0.84	R 107R77 RF107R77	4
870	12	1.61	9.1		4	2.7	4644	510	0.87		4
1000	10	1.40	9.5		4	2.9	4362	479	0.93		4
240	43	3.79	1.5	RX 57 RXF57	6	3.0	4216	463	0.96		4
256	40	3.55	1.6		6	3.4	3697	406	1.09		4
290	36	3.14	1.7		6	3.9	3251	357	1.24		4
313	33	2.91	1.9		6	4.5	2850	313	1.42		4
345	30	2.64	2.2	RX 57 RXF57	4	4.2	3060	336	0.92	R 97R57 RF97R57	4
369	28	3.79	2.3		4	4.7	2696	296	1.05		4
394	26	3.55	2.5		4	5.6	2268	249	1.24		4
446	23	3.14	2.6		4	6.0	2131	234	1.32		4
481	21	2.91	2.9		4	6.7	1903	209	1.48	R 107 RF107	8
530	19	2.64	3.3		4	3.1	4413	226.11	0.92		8
591	17	2.37	3.7		4	3.5	3920	200.87	1.03		8
686	15	2.04	4.3		4	4.1	3265	167.29	1.24		8
729	14	1.92	4.6	RX 37 RXF37	4	4.4	3045	156.04	1.32	R 107 RF107	6
848	12	1.65	5.3		4	3.7	3593	245.50	1.12		6
946	11	1.48	5.9		4	4.1	3309	226.11	1.22		6
1077	10	1.30	6.2		4	4.6	2940	200.87	1.37		6
700	15	2.00	1.02		4	5.5	2449	167.29	1.65	R 97 RF97	4
819	13	1.71	1.19		4	5.8	2304	156.04	1.77		4
875	12	1.60	1.27		4	6.6	2041	139.47	1.98		4
0.60	21246	2333	0.80	R 167R97 RF167R97	4	5.4	2417	256.89	1.14		4
0.67	18987	2085	0.89		4	5.8	2316	240.83	1.22		4
0.75	17093	1877	0.99		4	6.5	2077	215.94	1.36		4
0.84	15208	1670	1.11		4	7.5	1789	185.97	1.58		4
0.96	13259	1456	1.28		4	8.3	1626	169.06	1.73		4
1.1	11802	1296	1.43		4	9.3	1450	150.78	1.94		4
1.2	10354	1137	1.63		4	11	1219	126.75	2.3		4
1.4	9213	1012	1.84		4	12	1120	116.48	2.5		4
3.2	3934	432	3.1	R 147R87 RF147R87	4	14	995	103.44	2.8	R 87 RF87	4
3.8	3388	373	3.6		4	15	889	92.47	3.2		4
0.82	15527	1705	0.8	R 147R77 RF147R77	4	7.7	1748	181.77	0.83		4
0.91	13988	1536	0.87		4	9.0	1494	155.34	0.98		4
1.1	12103	1329	1.01		4	9.8	1370	142.41	1.06		4
1.2	10618	1166	1.15		4	11	1202	124.97	1.21		4
1.4	9371	1029	1.30		4	12	1139	118.43	1.28		4
1.6	8096	889	1.51		4	14	997	103.65	1.46		4
1.8	7140	784	1.71		4	15	898	93.38	1.62		4
2.0	6329	695	1.93		4	17	788	81.92	1.85		4
2.3	5528	607	2.2		4	19	696	72.37	2.1		4
2.6	4981	547	2.5		4	22	611	63.50	2.4		4
						23	579	60.18	2.5		4
						27	507	52.67	2.9		4
						30	456	47.45	3.2		4
						34	400	41.63	3.6		4
						38	353	36.73	4.1		4

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
1.5kW						1.5kW					
15	894	92.97	0.86	R 77 RF77	4	73	186	19.31	1.01	R 37 RF37	4
17	787	81.80	0.98			78	174	18.05	1.08		
18	743	77.24	1.04			90	150	15.60	1.25		
21	633	65.77	1.22			106	127	13.25	1.40		
25	542	56.38	1.42			118	114	11.83	1.51		
28	490	50.90	1.57			138	97	10.11	1.64		
31	431	44.78	1.79			148	91	9.47	1.72		
33	407	42.29	1.90			176	77	7.97	1.91		
39	346	36.01	2.2			210	64	6.67	2.1		
43	315	32.72	2.4			247	55	5.67	2.4		
49	273	28.35	2.8			277	49	5.06	2.6		
57	237	24.67	3.1			324	42	4.32	2.9		
60	225	23.37	3.4			346	39	4.05	2.9		
65	206	21.43	3.7			411	33	3.41	3.2		
74	181	18.80	4.1								
23	589	61.26	0.96	R 67 RF67	4	90	150	15.63	0.81	R 27 RF27	4
25	547	56.89	1.03			105	128	13.28	0.96		
27	496	51.56	1.14			118	114	11.86	1.06		
30	445	46.29	1.27			138	97	10.13	1.18		
35	384	39.88	1.47			172	78	8.16	1.39		
37	361	37.50	1.56			183	73	7.63	1.43		
43	310	32.27	1.82			212	63	6.59	1.57		
49	277	28.83	2.0			250	54	5.60	1.73		
50	276	28.13	2.0			280	48	5.00	1.86		
52	262	26.72	2.1			328	41	4.27	1.99		
60	230	23.44	2.4			350	38	4.00	2.1		
70	195	19.89	2.9			415	32	3.37	2.3		
78	176	17.95	3.2								
26	523	53.22	0.8	R 57 RF57	4	249	54	5.63	1.91	RX 77 RXF77	4
29	474	48.23	0.9			262	51	5.35	1.88		
32	425	43.30	1.0			296	45	4.73	2.5		
38	366	37.30	1.15			347	39	4.04	3.5		
40	344	35.07	1.23			378	36	3.70	4.0		
46	296	30.18	1.43			431	31	3.25	5.5		
52	265	26.97	1.60			455	30	3.08	6.1		
53	258	26.31	1.64			519	26	2.70	7.8		
56	245	24.99	1.72			576	23	2.43	8.6		
64	215	21.93	1.96								
75	183	18.60	2.3			309	44	4.53	1.77	RX 67 RXF67	4
83	165	16.79	2.6			326	41	4.30	1.82		
95	145	14.77	2.8			371	36	3.77	2.3		
100	137	13.95	2.9			438	31	3.20	3.1		
118	117	11.88	3.3			484	28	2.89	3.6		
						551	24	2.54	4.5		
						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		
38	355	36.93	0.8	R 47 RF47	4	369	36	3.79	1.78	RX 57 RXF57	4
40	334	34.73	0.84			394	34	3.55	1.90		
47	287	29.88	0.98			446	30	3.14	2.0		
52	257	26.70	1.1			481	28	2.91	2.3		
59	227	23.59	1.2			530	25	2.64	2.6		
60	224	23.28	1.26			591	23	2.37	2.8		
64	210	21.81	1.34			686	20	2.04	3.3		
73	185	19.27	1.50			729	18	1.92	3.5		
78	172	17.89	1.58			848	16	1.65	4.1		
86	156	16.22	1.66			946	14	1.48	4.5		
96	140	14.56	1.8			1077	13	1.30	4.7		
112	121	12.54	1.9								
119	113	11.79	2.0								
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								

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type Type	Pole p
2.2kW						2.2kW					
0.85	21991	1670	0.8	R 167R97 RF167R97	4	5.8	3414	245.50	1.18	R 107 RF107	4
0.98	19173	1456	0.88			6.3	3145	226.11	1.29		
1.1	17066	1296	1.0			7.1	2744	200.87	1.45		
1.2	14972	1137	1.1			8.5	2327	167.29	1.74		
1.4	13326	1012	1.27			9.1	2170	156.04	1.86		
1.6	11483	872	1.47			10	1940	139.47	2.1		
1.8	10140	770	1.67			11	1746	125.55	2.3		
2.1	8744	664	1.9			12	1581	113.70	2.6		
2.6	7111	540	1.72	R 147R87 RF147R87	4	14	1402	100.82	2.9	R 97 RF97	4
3.1	6084	462	2.0			16	1286	91.16	3.2		
3.3	5689	432	2.1			6.6	3003	215.94	0.94		
3.8	4912	373	2.5			7.6	2586	185.97	1.09		
4.3	4346	330	2.8	R 147R77 RF147R77	4	8.4	2351	169.06	1.20		
1.2	15354	1166	0.80			9.4	2097	150.78	1.34		
1.4	13550	1029	0.90			11	1763	126.75	1.60		
1.6	11707	889	1.04			12	1620	116.48	1.74		
1.8	10324	784	1.18			14	1439	103.44	1.96		
2.0	9152	695	1.34			15	1286	92.48	2.2		
2.3	7993	607	1.53			17	1156	83.15	2.4		
2.6	7203	547	1.70			20	1004	72.17	2.8		
3.0	6321	480	1.93	R 137R77 RF137R77	4	22	906	65.12	3.1		
1.9	9721	730	0.77			24	832	59.84	3.4		
2.1	9108	684	0.83			27	739	53.14	3.8		
2.3	8376	629	0.90			30	661	47.51	4.3		
2.4	7923	595	0.95			11	1738	124.97	0.84	R 87 RF87	4
2.6	7311	549	1.03			12	1647	118.43	0.88		
2.9	6525	490	1.15			14	1442	103.65	1.01		
3.3	5699	428	1.32			15	1299	93.38	1.12		
3.8	4980	374	1.51			17	1139	81.92	1.28		
4.5	4221	317	1.78			20	1007	72.37	1.45		
5.0	3808	286	1.97			22	883	63.50	1.65		
5.6	3377	250	2.2			24	837	60.18	1.74		
6.4	2958	219	2.5	R 107R77 RF107R77	4	27	733	52.67	1.99		
3.9	4822	357	0.84			30	660	47.45	2.2		
4.4	4336	321	0.93			34	579	41.63	2.5		
4.5	4228	313	0.96			39	511	36.73	2.9		
5.1	3741	277	1.08			41	478	34.34	3.0		
5.5	3458	256	1.17			44	453	32.57	3.2		
6.7	2809	208	1.44			45	434	31.22	3.4		
6.0	3125	234	0.90	R 97R57 RF97R57	4	51	387	27.81	3.8		
6.7	2791	209	1.01			61	325	23.40	4.5		
3.2	6212	223.34	1.21	R 137 RF137	8	66	299	21.51	4.7	R 77 RF77	4
3.8	5234	188.16	1.43			22	915	65.77	0.8		
4.1	4851	174.4	1.55			25	784	56.38	1.0		
4.5	4348	156.31	1.73			28	708	50.90	1.1		
5.0	3925	141.12	1.92			32	623	44.78	1.2		
5.5	3565	128.18	2.1			34	588	42.29	1.31		
6.2	3163	113.72	2.4			39	501	36.01	1.54		
6.9	2871	103.2	2.6			43	455	32.72	1.69		
4.7	4220	200.87	0.96	R 107 RF107	6	50	394	28.35	1.95		
5.6	3515	167.29	1.15			58	343	24.67	2.1		
6.0	3278	156.04	1.23			61	325	23.37	2.4		
6.7	2930	139.47	1.38			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		

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole		
r/min	Nm	i	f _s	Type	p	r/min	Nm	i	f _s	Type	p		
2.2kW						2.2kW							
36	555	39.88	0.98	R 67 RF67	4	300	69	4.73	1.69	RX 77 RXF77	4		
38	522	37.50	1.03			351	59	4.04	2.3				
44	449	32.27	1.13			384	54	3.70	2.7				
49	401	28.83	1.22			437	47	3.25	3.6				
61	326	23.44	1.61			461	45	3.08	4.1				
71	277	19.89	2.0			526	39	2.70	5.2				
79	250	17.95	2.2			584	35	2.43	5.7				
90	220	15.79	2.4			667	31	2.13	6.1				
95	207	14.91	2.5			755	27	1.88	6.4				
112	177	12.70	2.8			850	24	1.67	6.7				
123	160	11.54	2.9			1000	21	1.42	7.1				
142	139	10.00	3.2										
163	121	8.70	3.3										
182	108	7.79	3.4										
38	519	37.30	0.82	R 57 RF57	4	377	55	3.77	1.50	RX 67 RXF67	4		
40	488	35.07	0.87			444	46	3.20	2.0				
47	420	30.18	1.01			491	42	2.89	2.4				
53	375	26.97	1.13			559	37	2.54	3.0				
65	305	21.93	1.39			592	35	2.40	3.3				
76	259	18.60	1.64			696	30	2.04	4.3				
85	234	16.79	1.81			763	27	1.86	4.4				
96	205	14.77	1.99			882	23	1.61	4.6				
102	194	13.95	2.1			1014	20	1.40	4.8				
120	165	11.88	2.3										
132	150	10.79	2.4			452	46	3.14	1.34			RX 57 RXF57	4
152	130	9.35	2.7			538	38	2.64	1.69				
157	126	9.06	2.8			599	34	2.37	1.89				
178	111	7.97	3.0			696	30	2.04	2.2				
				740	28	1.92	2.3						
				861	24	1.65	2.7						
				959	21	1.48	3.0						
				1092	19	1.30	3.1						
						</							

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p
3.0kW						3.0kW					
3.2	8472	223.34	0.89	R 137 RF137	8	32	849	44.78	0.91	R 77 RF77	4
3.8	7137	188.16	1.05			34	802	42.29	0.96		
4.1	6615	174.40	1.14			39	683	36.01	1.13		
4.5	5929	156.31	1.27			43	621	32.72	1.24		
5.0	5353	141.12	1.40			50	538	28.35	1.43		
5.5	4862	128.18	1.55			58	468	24.67	1.57		
6.2	4314	113.72	1.74			61	443	23.37	1.74		
6.9	3914	103.20	1.92			66	406	21.43	1.90		
8.0	3364	88.70	2.20	R 137 RF137	6	76	357	18.80	2.1	R 67 RF67	4
4.3	6245	222.60	1.20			80	338	17.82	2.2		
5.1	5287	188.45	1.42			91	296	15.60	2.4		
5.5	4892	174.40	1.54			101	266	14.05	2.5		
6.1	4385	156.31	1.71			115	234	12.33	2.8		
6.8	3959	141.12	1.90			131	206	10.88	3.0		
7.5	3596	128.18	2.10			147	183	9.64	3.2		
8.4	3190	113.72	2.40			169	160	8.42	3.7		
9.3	2895	103.20	2.60	R 107 RF107	4	187	144	7.59	4.0		
6.2	4377	156.04	0.92			213	126	6.66	4.3		
6.9	3913	139.47	1.03			61	445	23.44	1.18	R 57 RF57	4
7.6	3522	125.55	1.15			71	377	19.89	1.50		
6.3	4288	226.11	0.94			79	340	17.95	1.63		
7.1	3810	200.87	1.06			90	299	15.79	1.76		
8.5	3172	167.29	1.27			95	283	14.91	1.8		
9.1	2959	156.04	1.37			112	241	12.70	2.0		
10	2645	139.47	1.53			123	219	11.54	2.1		
11	2381	125.55	1.70			142	190	10.00	2.3		
12	2156	113.70	1.87	R 97 RF97	4	53	511	26.97	0.8	R 47 RF47	4
14	1912	100.82	2.1			65	416	21.93	1.02		
16	1729	91.16	2.3			76	353	18.60	1.20		
18	1465	77.26	2.8			85	318	16.79	1.33		
20	1366	72.00	3.0			96	280	14.77	1.46		
9.4	2860	150.78	0.99			102	265	13.95	1.53		
11	2404	126.75	1.17			120	225	11.88	1.69		
12	2209	116.48	1.28			132	205	10.79	1.79		
14	1962	103.44	1.44	R 87 RF87	4	152	177	9.35	2.0	R 37 RF37	4
15	1754	92.48	1.61			157	172	9.06	2.1		
17	1577	83.15	1.79			178	151	7.97	2.2		
20	1369	72.17	2.1			189	143	7.53	2.3		
22	1235	65.12	2.3			222	122	6.41	2.6		
24	1135	59.84	2.5			244	110	5.82	2.7		
27	1008	53.14	2.8			281	96	5.05	3.0		
30	901	47.51	3.1			323	83	4.39	3.2		
33	810	42.72	3.5	R 77 RF77	4	88	308	16.22	0.84	R 67 RF67	4
38	703	37.08	4.0			98	276	14.56	0.90		
43	630	33.20	4.3			113	238	12.54	0.99		
15	1771	93.38	0.82			120	224	11.79	1.03		
17	1554	81.92	0.94			140	192	10.15	1.12		
20	1373	72.37	1.06			157	172	9.07	1.20		
22	1204	63.50	1.21			177	152	8.01	1.27		
24	1141	60.18	1.28			183	147	7.76	1.04		
27	999	52.67	1.46	R 67 RF67	4	204	132	6.96	1.13	R 57 RF57	4
30	900	47.45	1.62			237	114	6.00	1.29		
34	790	41.63	1.85			252	107	5.64	1.36		
39	697	36.73	2.1			293	92	4.85	1.53		
41	651	34.34	2.2			327	82	4.34	1.67		
44	618	32.57	2.4			371	73	3.83	1.86		
45	592	31.22	2.5			140	192	10.11	0.83	R 47 RF47	4
51	528	27.84	2.8			150	180	9.47	0.87		
53	527	27.81	2.8			178	151	7.97	0.97		
61	444	23.40	3.3			213	126	6.67	1.07		
66	408	21.51	3.5			250	108	5.67	1.24		
74	362	19.10	3.6			281	96	5.06	1.32		
83	324	17.08	4.0			329	82	4.32	1.45		
93	291	15.35	4.3			351	77	4.05	1.49		
						416	65	3.41	1.63		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type Type	Pole p
3.0kW						4.0kW					
254	106	5.60	0.88	R 27 RF27	4	3.8	8877	376	0.85	R 137R77 RF137R77	4
284	95	5.00	0.94			3.9	8830	374	0.85		
333	81	4.27	1.01			4.2	8004	339	0.94		
355	76	4.00	1.05			4.5	7484	317	1.00		
421	64	3.37	1.2			4.8	7012	297	1.07		
						5.0	6752	286	1.11		
						5.8	5902	250	1.27		
109	258	6.47	4.31	RX 127 RXF127	8	6.6	5171	219	1.45		
220	127	6.44	1.42	RX 87 RXF87	4	7.5	4509	191	0.90	R 107R77 RF107R77	4
256	110	5.55	1.92			8.0	4273	181	0.95		
281	100	5.05	2.3			8.6	3943	167	1.03		
316	89	4.50	3.1								
376	75	3.78	3.8								
						4.4	8152	163.46	1.50	R 147 RF147	8
						4.9	7324	146.85	1.67		
						6.0	5946	119.24	2.0		
						6.5	5487	110.03	2.2		
300	94	4.73	1.24	RX 77 RXF77	4	4.1	8698	174.40	0.86	R 137 RF137	8
351	80	4.04	1.68			4.6	7796	156.31	0.96		
384	73	3.70	1.97			5.1	7038	141.12	1.07		
437	64	3.25	2.7			5.6	6393	128.18	1.18		
461	61	3.08	3.0			6.3	5671	113.72	1.33		
						7.0	5147	103.20	1.46		
377	75	3.77	1.10	RX 67 RXF67	4	4.3	8354	223.34	0.90	R 137 RF137	6
444	63	3.20	1.49			5.1	7038	188.16	1.07		
491	57	2.89	1.74			5.5	6523	174.40	1.15		
559	50	2.54	2.2			6.1	5847	156.31	1.29		
592	47	2.40	2.4			6.8	5278	141.12	1.42		
696	40	2.04	3.1			7.5	4794	128.18	1.57		
763	37	1.86	3.2			8.4	4254	113.72	1.77		
882	32	1.61	3.4			9.3	3860	103.2	1.95		
1014	28	1.40	3.5			11	3318	88.70	2.3		
452	62	3.14	0.98	RX 57 RXF57	4						
538	52	2.64	1.24								
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 RF167R97	4	9	4172	167.29	0.97	R 107 RF107	4
1.9	18179	770	0.93			10	3891	156.04	1.04		
2.2	15677	664	1.08			11	3478	139.47	1.16		
2.8	12041	510	1.41			12	3131	125.55	1.29		
3.8	8972	380	1.89			13	2835	113.70	1.43		
4.3	7980	338	2.1			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		
2.7	12749	540	0.96	R 147R87 RF147R87	4	12	2905	116.48	0.97	R 97 RF97	4
3.1	10908	462	1.12			14	2579	103.44	1.09		
3.3	10199	432	1.20			16	2306	92.48	1.22		
3.9	8806	373	1.39			17	2073	83.15	1.36		
4.4	7791	330	1.57			20	1800	72.17	1.57		
5.1	6682	283	1.83			22	1624	65.12	1.74		
5.8	5902	250	2.1			24	1492	59.84	1.89		
6.7	5100	216	2.4			27	1325	53.14	2.1		
7.5	4509	191	2.7			30	1185	47.51	2.4		
8.9	3801	161	3.2			34	1065	42.72	2.6		
						39	925	37.08	3.0		
						43	828	33.20	3.2		
						45	803	32.22	3.3		
2.4	14331	607	0.85	R 147R77 RF147R77	4	54	669	26.84	3.6		
2.6	12915	547	0.95			58	624	25.03	4.3		
3.0	11333	480	1.08			64	558	22.37	4.6		
3.5	9609	407	1.27			71	502	20.14	4.9		
						78	455	18.24	6.2		

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole								
r/min	Nm	i	f _s	Type	p	r/min	Nm	i	f _s	Type	p								
4.0kW						4.0kW													
23	1583	63.5	0.92	R 87 RF87	4	142	253	10.15	0.85	R 47 RF47	4								
24	1501	60.18	0.97			159	226	9.07	0.86										
27	1313	52.67	1.11			180	200	8.01	0.91										
30	1183	47.45	1.23			207	174	6.96	0.96										
35	1038	41.63	1.40			240	150	6.00	0.98										
39	916	36.73	1.59			255	141	5.64	1.04										
42	856	34.34	1.70			297	121	4.85	1.17										
44	812	32.57	1.79			332	108	4.34	1.27										
46	779	31.22	1.87			376	96	3.83	1.42										
52	694	27.84	2.1								RX 127 RXF127	8							
53	693	27.81	2.2			109	344	6.47	3.23										
62	584	23.40	2.5			121	310	5.88	3.59			RX 127 RXF127	6						
67	536	21.51	2.7																
75	476	19.10	3.1			147	254	6.47	4.37			RX 87 RXF87	4						
84	426	17.08	3.1																
94	383	15.35	3.3			259	144	5.55	1.46										
108	332	13.33	3.6			285	131	5.05	1.78										
121	297	11.93	3.9			320	117	4.50	2.3										
						381	98	3.78	2.9			RX 77 RXF77	4						
40	898	36.01	0.86	R 77 RF77	4														
44	816	32.72	0.94			356	105	4.04	1.28										
51	707	28.35	1.09			389	96	3.70	1.50										
58	615	24.67	1.19			443	84	3.25	2.0										
62	583	23.37	1.32			468	80	3.08	2.3										
67	534	21.43	1.44			533	70	2.70	2.9										
77	469	18.80	1.56			593	63	2.43	3.2										
81	444	17.82	1.65			676	55	2.13	3.4										
92	389	15.60	1.79			766	49	1.88	3.6										
102	350	14.05	1.93			862	43	1.67	3.7										
117	307	12.33	2.1			1014	37	1.42	3.9										
132	271	10.88	2.3								RX 67 RXF67	4							
149	240	9.64	2.5			450	83	3.20	1.13										
171	210	8.42	2.8			498	75	2.89	1.33										
190	189	7.59	3.0			567	66	2.54	1.68										
216	166	6.66	3.3			600	62	2.40	1.85										
245	147	5.88	3.5			706	53	2.04	2.4										
276	130	5.21	3.7			774	48	1.86	2.4										
						894	42	1.61	2.6			RX 57 RXF57	4						
72	496	19.89	1.14	R 67 RF67	4	1029	36	1.40	2.7										
80	448	17.95	1.24																
91	394	15.79	1.34			545	69	2.64	0.95										
97	372	14.91	1.39			608	62	2.37	1.05										
113	317	12.70	1.54			706	53	2.04	1.22										
125	288	11.54	1.63			750	50	1.92	1.30										
144	249	10.00	1.77			873	43	1.65	1.51										
166	217	8.70	1.91			973	38	1.48	1.66										
185	194	7.79	1.84			1108	34	1.30	1.75										
196	184	7.36	1.90								R 167R97 RF167R97	4							
230	156	6.27	2.0																
253	142	5.70	2.1																
292	123	4.93	2.2																
336	107	4.29	2.4																
						5.5kW					R 147R87 RF147R87	4							
77	464	18.60	0.91	R 57 RF57	4	2.2	21556	664	0.80										
86	419	16.79	1.01			2.5	18764	578	0.90										
97	368	14.77	1.11			2.8	16556	510	1.02										
103	348	13.95	1.16			3.3	14219	438	1.19										
121	296	11.88	1.29			3.8	12336	380	1.37										
133	269	10.79	1.36			4.3	10973	338	1.54										
154	233	9.35	1.49			4.7	9966	307	1.70										
159	226	9.06	1.56			5.1	9155	282	1.85										
181	199	7.97	1.68										R 147R87 RF147R87	4					
191	188	7.53	1.75			3.1	14998	462	0.81										
225	160	6.41	1.97			3.3	14024	432	0.87										
247	145	5.82	2.1			3.9	12109	373	1.01										
285	126	5.05	2.3			4.4	10713	330	1.14										
328	109	4.39	2.4			5.1	9187	283	1.33										
						5.8	8116	250	1.51										
						6.7	7012	216	1.74										
						7.5	6201	191	1.97										

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type	Pole p
5.5kW						5.5kW					
3.7	12752	196.41	1.32	R 167 RF167	8	45	1105	32.22	2.2	R 97 RF97	4
4.5	10440	160.80	1.63			54	920	26.84	2.6		
5.5	8469	130.44	1.99			58	858	25.03	3.1		
6.0	7855	120.99	2.17			64	767	22.37	3.3		
6.9	6779	104.41	2.50			71	691	20.14	3.6		
						79	625	18.24	3.8		
4.4	10613	163.46	1.15	R 147 RF147	8	89	554	16.17	4.1		
4.9	9534	146.85	1.28								
6.0	7742	119.24	1.57			30	1627	47.45	0.90		
6.6	7144	110.03	1.72			35	1427	41.63	1.02		
5.9	7960	163.46	1.54	R 147 RF147	6	39	1259	36.73	1.16		
6.5	7151	146.85	1.71			44	1117	32.57	1.30		
8.0	6133	119.24	2.0			52	955	27.84	1.53		
8.8	5659	110.03	2.2			53	954	27.81	1.53		
10	4865	94.60	2.5			62	802	23.40	1.82	R 87 RF87	4
12	4293	83.47	2.8			67	738	21.51	2.0		
5.6	8790	128.18	0.86	R 137 RF137	8	75	655	19.10	2.1		
6.3	7798	113.72	0.96			84	586	17.08	2.2		
7.0	7077	103.2	1.06			94	526	15.35	2.4		
8.1	6083	88.70	1.24			108	457	13.33	2.6		
5.5	8970	174.40	0.84	R 137 RF137	6	121	409	11.93	2.8		
6.1	8039	156.31	0.94			145	339	9.90	3.3		
6.8	7258	141.12	1.04			156	317	9.25	3.6		
7.5	6592	128.18	1.14			173	285	8.32	3.8		
8.4	5849	113.72	1.29			199	248	7.22	4.1		
9.3	5308	103.20	1.42								
6.4	7658	223.34	0.98	R 137 RF137	4	77	645	18.80	1.14	R 77 RF77	4
7.7	6451	188.16	1.17			81	611	17.82	1.20		
8.3	5980	174.40	1.26			92	535	15.60	1.30		
9.2	5359	156.31	1.40			102	482	14.05	1.40		
10	4839	141.12	1.55			117	423	12.33	1.53		
11	4395	128.18	1.71			132	373	10.88	1.66		
13	3899	113.72	1.93			149	331	9.64	1.79		
14	3538	103.20	2.1			171	289	8.42	2.1		
16	3041	88.70	2.5			190	260	7.59	2.2		
18	2774	80.91	2.7			216	228	6.66	2.4		
20	2520	73.49	3.0			245	202	5.88	2.52		
22	2236	65.20	3.4			276	179	5.21	2.68		
24	2029	59.17	3.7								
28	1744	50.86	4.3								
11	4305	125.55	0.94	R 107 RF107	4	91	541	15.79	0.97	R 67 RF67	4
13	3898	113.70	1.04			97	511	14.91	1.01		
14	3457	100.82	1.17			113	435	12.70	1.12		
16	3126	91.16	1.29			125	396	11.54	1.19		
19	2649	77.26	1.54			144	343	10.00	1.29		
20	2469	72.00	1.64			166	298	8.70	1.34		
22	2222	64.84	1.82			185	267	7.79	1.38		
25	2012	58.69	2.01			196	252	7.36	1.39		
28	1785	52.05	2.3			230	215	6.27	1.44		
31	1614	47.06	2.5			253	195	5.70	1.49		
36	1367	39.88	3.0			292	169	4.93	1.61		
17	2851	83.15	0.99	R 97 RF97	4	336	147	4.29	1.73		
20	2475	72.17	1.14								
22	2233	65.12	1.26			97	506	14.77	0.81	R 57 RF57	4
24	2052	59.84	1.37			103	478	13.95	0.85		
27	1822	53.14	1.55			121	407	11.88	0.93		
30	1629	47.51	1.73			133	370	10.79	0.99		
34	1465	42.72	1.93			154	321	9.35	1.08		
39	1271	37.08	2.2			181	273	7.97	1.22		
43	1138	32.20	2.4			191	258	7.53	1.27		
52	944	27.54	2.7			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 RF47	4
						332	149	4.34	0.92		
						376	131	3.83	1.03		

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _s	Type	p	r/min	Nm	i	f _s	Type	p
5.5kW						7.5kW					
116	443	6.22	3.79	RX 157 RXF157	8 8	4.4	14408	330	0.85	R 147R87 RF147R87	4 4
123	420	5.88	2.64	RX 127 RXF127	8 8	5.2	12356	283	0.99		
147	350	6.47	3.18	RX 127	6	5.8	10915	250	1.12		
164	315	5.88	3.53	RXF127	6	6.8	9431	216	1.30		
182	283	5.28	3.92			7.6	8339	191	1.47		
217	238	6.65	1.82	RX 107	4	9.1	7030	161	1.74	R 167 RF167	4 4
257	200	5.60	2.14	RXF107	4	3.7	18366	196.41	0.92		
277	186	5.19	3.52			4.5	15036	160.80	1.13		
310	166	4.65	3.93			5.5	12197	130.44	1.39		
						6.0	11314	120.99	1.50		
247	208	5.82	1.9	RX 97 RXF97	4 4	6.9	9763	104.41	1.73	R 167 RF167	6 6
297	173	4.85	2.1			4.9	13775	196.41	1.23		
319	162	4.52	3.5			6.0	11277	160.80	1.50		
356	144	4.04	3.9			7.4	9145	130.44	1.84		
396	130	3.64	4.3			7.9	8485	120.99	1.99		
436	118	3.30	4.7			9.2	7323	104.41	2.31		
493	104	2.92	5.4			10	6462	92.14	2.6		
545	94	2.64	5.9			12	5602	79.88	3.0		
643	80	2.24	7.0			14	4984	71.07	3.4		
735	70	1.96	7.6			15	4487	63.98	3.8		
878	59	1.64	8.1			16	4103	58.51	4.1	R 147 RF147	8 8
1014	51	1.42	8.4			4.4	15285	163.46	0.80		
320	161	4.50	1.7	RX 87 RXF87	4 4	4.9	13732	146.85	0.89		
381	135	3.78	2.1			6.0	11150	119.24	1.09		
414	124	3.48	3.1			6.6	10289	110.03	1.20		
466	110	3.09	3.4			5.9	11464	163.46	1.07	R 147 RF147	6 6
522	99	2.76	3.9			6.5	10299	146.85	1.19		
581	89	2.48	4.3			8.0	8363	119.24	1.45		
670	77	2.15	4.7			8.8	7717	110.03	1.59		
443	116	3.25	1.47	RX 77 RXF77	4 4	10	6635	94.60	1.84	R 137 RF137	4 4
468	110	3.08	1.65			12	5854	83.47	2.1		
533	97	2.70	2.1			7.7	8677	188.16	0.87		
593	87	2.43	2.3			8.4	8042	174.40	0.94		
676	76	2.13	2.5			9.3	7208	156.31	1.04		
766	67	1.88	2.6			10	6508	141.12	1.16		
862	60	1.67	2.7			11	5911	128.18	1.27		
1014	51	1.42	2.9			13	5244	113.72	1.43		
567	91	2.54	1.22	RX 67 RXF67	4 4	14	4759	103.20	1.58	R 107 RF107	4 4
600	86	2.40	1.35			16	4090	88.70	1.84		
706	73	2.04	1.73			18	3731	80.91	2.0		
774	66	1.86	1.78			20	3389	73.49	2.2		
894	58	1.61	1.86			22	3007	65.20	2.5		
1029	50	1.40	2.0			25	2729	59.17	2.8		
706	73	2.04	0.89	RX 57 RXF57	4 4	29	2345	50.86	3.2		
750	69	1.92	0.95			16	4204	91.16	0.96		
873	59	1.65	1.10			19	3563	77.26	1.13		
973	53	1.48	1.21			20	3320	72.00	1.22		
1108	46	1.30	1.27			23	2989	64.81	1.35		
7.5kW						25	2706	58.69	1.49		
2.9	22268	510	0.80	R 167R97 RF167R97	4 4	28	2400	52.05	1.68		
3.3	19124	438	0.88			31	2170	47.06	1.86		
3.8	16591	380	1.02			37	1839	39.88	2.2		
4.3	14758	338	1.15			42	1607	34.84	2.5		
4.8	13404	307	1.26			48	1404	30.44	2.9		
5.2	12313	282	1.37			50	1344	29.14	3.0		
						54	1257	27.25	3.2		
						59	1134	24.60	3.6		
						65	1030	22.34	3.9		

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole		
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p		
7.5kW						7.5kW							
24	2760	59.84	1.02	R 97 RF97	4 4	123	572	5.88	2.94	RX 127	6		
27	2451	53.14	1.15			136	515	5.28	3.26	RXF127	6		
31	2191	47.51	1.29			167	420	4.29	4.0				
34	1970	42.72	1.43										
39	1710	37.08	1.65			221	318	6.47	3.49	RX 127	4		
44	1531	33.20	1.72			245	286	5.88	3.88	RXF127	4		
45	1486	32.22	1.77										
53	1270	27.54	1.94			220	320	6.65	1.35	RX 107 RXF107	4 4		
54	1238	26.84	1.98			260	269	5.60	1.59				
58	1154	25.03	2.30			281	250	5.19	2.6				
65	1032	22.37	2.48			314	224	4.65	2.9				
72	929	20.14	2.64			348	202	4.20	3.9				
80	841	18.24	2.79										
40	1694	36.73	0.86	R 87 RF87	4 4	251	280	5.82	1.41	RX 97 RXF97	4 4		
45	1502	32.57	0.97			301	233	4.85	1.59				
52	1284	27.84	1.13			323	217	4.52	2.6				
53	1282	27.81	1.1			361	194	4.04	2.9				
62	1079	23.40	1.35			401	175	3.64	3.2				
68	992	21.51	1.42			442	159	3.30	3.5				
76	881	19.10	1.54			500	140	2.92	4.0				
85	788	17.08	1.66										
95	708	15.35	1.78			324	216	4.50	1.26	RX 87 RXF87	4 4		
110	615	13.33	1.96			386	182	3.78	1.58				
122	550	11.93	2.1			420	167	3.48	2.3				
147	457	9.90	2.4			472	149	3.09	2.6				
158	427	9.25	2.7			529	133	2.76	2.9				
175	384	8.32	2.8			589	119	2.48	3.2				
202	333	7.22	3.0			679	103	2.15	3.5				
226	298	6.47	3.2			756	93	1.93	3.6				
272	247	5.36	3.5			913	77	1.60	3.8				
						1050	67	1.39	4.1				
78	867	18.80	0.85	R 77 RF77	4 4	449	156	3.25	1.09			RX 77 RXF77	4 4
82	822	17.82	0.89			474	148	3.08	1.23				
94	719	15.60	0.97			541	130	2.70	1.56				
104	648	14.05	1.04			601	117	2.43	1.73				
118	569	12.33	1.14			685	102	2.13	1.84				
134	502	10.88	1.24			777	90	1.88	1.94				
151	445	9.64	1.33			874	80	1.67	2.0				
173	388	8.42	1.53			1028	68	1.42	2.1				
192	350	7.59	1.64							RX 67 RXF67	4 4		
219	307	6.66	1.78			575	122	2.54	0.91				
248	271	5.88	1.87			608	115	2.40	1.00				
280	240	5.21	2.00			716	98	2.04	1.28				
						785	89	1.86	1.32				
						907	77	1.61	1.38				
115	586	12.70	0.83	R 67 RF67	4 4	1043	67	1.40	1.45	R 167R107 RF167R107	4 4		
127	532	11.54	0.88			11kW							
146	461	10.00	0.96			4.9	18891	295	0.90				
168	401	8.70	0.99			5.1	18379	287	0.92				
187	359	7.79	1.02			5.2	17994	281	0.94				
198	339	7.36	1.03			6.1	15241	238	1.11				
233	289	6.27	1.07			7.0	13320	208	1.27				
256	263	5.70	1.11			8.3	11271	176	1.50				
296	227	4.93	1.20							R 167R97 RF167R97	4 4		
340	198	4.29	1.28			4.3	21645	338	0.80				
						4.8	19659	307	0.86				
						5.2	18059	282	0.94				
												R 147R87 RF147R87	4 4
183	368	7.97	0.91			5.8	16009	250	0.80				
194	347	7.53	0.95	6.8	13832	216	0.88						
228	296	6.41	1.07	7.6	12231	191	1.00						
251	268	5.82	1.12	9.1	10310	161	1.19						
289	233	5.05	1.23	9.2	10182	159	1.20						
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								

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type	Pole p
11kW						11kW					
6.0	16540	160.80	1.02	R 167 RF167	6	135	732	10.83	2.7	R 97 RF97	4
7.4	13417	130.44	1.26		6	158	626	9.26	3.0		4
7.9	12445	120.99	1.36			174	566	8.37	3.4		
9.2	10740	104.41	1.58			206	480	7.09	3.9		
						235	419	6.20	4.2		
7.4	13284	196.41	1.27	R 167 RF167	4	68	1455	21.51	0.97	R 87 RF87	4
9.1	10876	160.80	1.56			76	1292	19.10	1.05		
11	8822	130.44	1.91			85	1155	17.08	1.13		
12	8183	120.99	2.07			95	1038	15.35	1.21		
14	7062	104.41	2.4			110	902	13.33	1.33		
16	6232	92.14	2.7			122	807	11.93	1.43		
18	5403	79.88	3.1			147	670	9.90	1.66		
21	4807	71.07	3.5			158	626	9.25	1.82		
6.5	15105	146.85	0.81	R 147 RF147	6	175	563	8.32	1.94		
8.1	12265	119.24	1.0		6	202	488	7.22	2.1		
8.7	11318	110.03	1.08			226	438	6.47	2.2		
10	9731	94.60	1.26			272	363	5.36	2.4		
12	8586	83.47	1.42								
8.9	11056	163.46	1.11	R 147 RF147	4	134	736	10.88	0.84	R 77 RF77	4
10	9932	146.85	1.23			151	652	9.64	0.91		
12	8065	119.24	1.52			192	513	7.59	1.12		
13	7442	110.03	1.64			219	450	6.66	1.21		
15	6398	94.60	1.91			248	398	5.88	1.28		
17	5645	83.47	2.2			280	352	5.21	1.36		
20	4876	72.09	2.5							RX 157 RXF157	6
22	4508	66.65	2.7			191	539	5.05	3.12		
24	4129	61.50	3.0			209	492	4.68	3.41		
28	3576	52.87	3.4			240	429	4.04	3.92		
10	9545	141.12	0.80	R 137 RF137	4	235	437	6.22	3.84	RX 157 RXF157	4
11	8669	128.18	0.87								
13	7691	113.72	0.98			249	414	5.88	2.68	RX 127 RXF127	4
14	6980	103.2	1.08			277	372	5.28	2.98		
16	5999	88.70	1.25			339	304	4.29	3.65		
18	5472	80.91	1.37			372	277	3.95	4.01		
20	4970	73.49	1.51			281	366	5.19	1.79	RX 107 RXF107	4
22	4410	65.20	1.71			314	328	4.65	1.99		
25	4002	59.17	1.88			348	296	4.20	2.63		
29	3440	50.86	2.2			383	269	3.81	2.90		
33	3002	44.39	2.5			432	238	3.38	3.27		
39	2540	37.65	3.0			476	216	3.07	3.60		
44	2226	32.91	3.4			553	186	2.64	4.19		
23	4383	64.81	0.92	R 107 RF107	4	323	319	4.52	1.75	RX 97 RXF97	4
25	3969	58.69	1.02			361	285	4.04	1.96		
28	3520	52.05	1.15			401	257	3.64	2.2		
31	3183	47.06	1.27			442	233	3.30	2.4		
37	2697	39.88	1.50			500	206	2.92	2.7		
42	2356	34.84	1.72			553	186	2.64	3.0		
48	2059	30.44	1.96			652	158	2.24	3.5		
50	1971	29.14	2.1			745	138	1.96	3.9		
54	1843	27.25	2.2			890	116	1.64	4.1		
59	1664	24.60	2.4			1028	110	1.42	4.3		
65	1511	22.34	2.7							RX 87 RXF87	4
74	1341	19.82	3.0			420	245	3.48	1.55		
81	1217	17.99	3.3			472	218	3.09	1.75		
						529	195	2.76	1.96		
						589	175	2.48	2.2		
						679	152	2.15	2.4		
34	2889	42.72	0.98	R 97 RF97	4	756	136	1.93	2.5	RX 77 RXF77	4
39	2508	37.08	1.12			913	113	1.60	2.6		
44	2245	33.20	1.21			1050	98	1.39	2.8		
53	1863	27.54	1.35								
58	1693	25.03	1.57			601	171	2.43	1.18		
65	1513	22.37	1.69			685	150	2.13	1.25		
72	1362	20.14	1.80			777	133	1.88	1.33		
80	1234	18.24	1.90			874	118	1.67	1.38		
90	1094	16.17	2.1			1028	100	1.42	1.46		
100	989	14.62	2.2								
118	838	12.39	2.5								

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole													
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p													
15kW						15kW																		
6.1	20783	238	0.81	R 167R107 RF167R107	4	53	2540	27.54	1.1	R 97 RF97	4													
6.5	19560	224	0.87			58	2309	25.03	1.15															
7.0	18163	208	0.93			65	2063	22.37	1.24															
7.5	17028	195	0.99			72	1858	20.14	1.32															
8.3	15369	176	1.10			80	1682	18.24	1.40															
7.4	18201	130.44	0.93	R 167 RF167	6	90	1491	16.17	1.51			R 87 RF87	4											
	8.0	16883	120.99			1.00	100	1348	14.62					1.6										
	9.2	14569	104.41			1.16	118	1143	12.39					1.8										
	11	12857	92.14			1.32	135	999	10.83					2.0										
7.4	18115	196.41	0.93	R 167 RF167	4	158	854	9.26	2.4					RX 157 RXF157	4									
	9.1	14830	160.80			1.14	174	772	8.37							2.5								
	11	12030	130.44			1.41	206	654	7.09							2.9								
	12	11159	120.99			1.52	235	572	6.20							3.1								
	14	9630	104.41			1.76	85 95 110 122 147 158 175 202 226 272	1575 1416 1229 1100 913 853 767 666 597 494	17.08 15.35 13.33 11.93 9.90 9.25 8.32 7.22 6.47 5.36							0.89 0.98 1.05 1.13 1.21 1.33 1.42 1.51 1.61 1.73								
	16	8498	92.14			1.99				R 87 RF87	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	R 147 RF147	6	287 315 361						488 446 388	5.05 4.68 4.04				3.44 3.77 3.32	RX 127 RXF127	4					
	10	13200	94.60																	0.93				
	12	11647	83.47																	1.05				
	13	10059	72.09																	1.21				
	14	9300	66.65											1.31										
8.9	15076	163.46	0.81	R 147 RF147	4									372	378					3.95	2.94	RX 107 RXF107	4	
	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																	
	17	7698	83.47				1.59																	
	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	R 137 RF137	4	323 361 401 442 500 553 652 745 890 1028	435 388 350 317 281 254 215 188 158 137	4.52 4.04 3.64 3.30 2.92 2.64 2.24 1.96 1.64 1.42	1.3 1.4 1.6 1.8 2.0 2.2 2.6 2.8 3.0 3.1	RX 97 RXF97	4													
	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												
	29	4691	50.86									1.60												
	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	R 107 RF107	4							420 472 529 589 679 756 913 1050	335 297 265 238 207 186 154 134	3.48 3.09 2.76 2.48 2.15 1.93 1.60 1.39	1.14 1.28 1.43 1.60 1.75 1.80 1.92 2.0	RX 87 RXF87	4							
	37	3678	39.88															1.10						
	42	3213	34.84															1.26						
	48	2807	30.44			1.44																		
	50	2688	29.14			1.50																		
	54	2513	27.25			1.61																		
	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																					

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
18.5kW						18.5kW					
9.1	18291	160.80	0.93	R 167 RF167	4	110	1516	13.33	0.8	R 87 RF87	4
11	14838	130.44	1.13			122	1357	11.93	0.85		
12	13763	120.99	1.24			147	1126	9.90	0.98		
14	11877	104.41	1.42			158	1052	9.25	1.08		
16	10481	92.14	1.61			175	946	8.32	1.15		
18	9086	79.88	1.86			202	821	7.22	1.22		
21	8084	71.07	2.1			226	736	6.47	1.30		
23	7278	63.98	2.3			272	610	5.36	1.40		
25	6655	58.51	2.5								
29	5791	50.91	2.9								
						317	547	4.68	3.07	RX 157	4
						364	476	4.04	3.53	RXF157	4
						412	420	3.57	4.0		
12	13564	119.24	0.90	R 147 RF147	4	348	478	4.20	1.63	RX 107 RXF107	4
13	12516	110.03	0.98			383	452	3.81	1.73		
15	10761	94.60	1.14			432	401	3.38	1.95		
17	9495	83.47	1.29			476	364	3.07	2.1		
20	8200	72.09	1.49			553	313	2.64	2.5		
22	7581	66.65	1.61			635	273	2.30	2.9		
24	6944	61.50	1.76			749	231	1.95	3.1		
28	6014	52.87	2.0			854	203	1.71	3.3		
31	5306	46.65	2.3			1014	171	1.44	3.6		
36	4583	40.29	2.7								
18	9203	80.91	0.82	R 137 RF137	4	401	432	3.64	1.30	RX 97 RXF97	4
20	8359	73.49	0.90			442	391	3.30	1.43		
22	7416	65.20	1.01			500	346	2.92	1.62		
25	6731	59.17	1.12			553	313	2.64	1.79		
33	5049	44.39	1.49			652	266	2.24	2.1		
39	4283	37.65	1.76			745	232	1.96	2.3		
44	3744	32.91	2.0			890	194	1.64	2.4		
49	3362	29.56	2.2			1028	168	1.42	2.5		
52	3166	27.83	2.3								
61	2730	24.00	2.7			529	327	2.76	1.16		
66	2520	22.15	3.0	589	294	2.48	1.29				
77	2166	19.04	3.5	679	255	2.15	1.42				
87	1911	16.80	3.9	756	229	1.93	1.46				
				913	190	1.60	1.56				
				1050	165	1.39	1.65				
37	4536	39.88	0.89	R 107 RF107	4	22kW					
42	3963	34.84	1.02			11	17645	130.44	0.95	R 167 RF167	4
50	3315	29.14	1.22			12	16366	120.99	1.04		
59	2798	24.60	1.44			14	14124	104.41	1.20		
65	2541	22.34	1.59			16	12464	92.14	1.36		
74	2255	19.82	1.79			18	10805	79.88	1.57		
81	2046	17.99	1.98			21	9614	71.07	1.76		
94	1759	15.46	2.3			23	8655	63.98	2.0		
108	1536	13.50	2.3			25	7915	58.51	2.1		
128	1302	11.45	3.1			29	6887	50.91	2.5		
146	1139	10.01	3.5	32	6078	44.93	2.8				
181	918	8.07	3.0	37	5269	38.95	3.2				
213	778	6.84	3.6								
72	2291	20.14	1.07	R 97 RF97	4	13	14884	110.03	0.83	R 147 RF147	4
80	2075	18.24	1.13			15	12797	94.60	0.95		
90	1839	16.17	1.23			17	11291	83.47	1.08		
100	1663	14.62	1.30			20	9752	72.09	1.3		
118	1409	12.39	1.46			22	9016	66.65	1.36		
135	1232	10.83	1.59			24	8258	61.50	1.48		
158	1053	9.26	1.81			28	7152	52.87	1.71		
174	952	8.37	2.0			31	6310	46.65	1.94		
206	806	7.09	2.3			36	5450	40.29	2.2		
235	705	6.20	2.5			41	4821	35.64	2.5		
282	589	5.18	2.8			49	4051	29.95	3.0		
328	511	4.49	3.0								

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole						
r/min	Nm	i	f _s	Type	p	r/min	Nm	i	f _s	Type	p						
22kW						22kW											
22	8820	65.20	0.85	R 137 RF137	4	652	316	2.24	1.77	RX 97 RXF97	4						
25	8004	59.17	0.94			745	276	1.96	1.94								
29	6880	50.86	1.09			890	231	1.64	2.05								
33	6005	44.39	1.25			1028	200	1.42	2.14								
39	5093	37.65	1.48			RX 87 RXF87	4	529	389	2.76	0.98						
44	4452	32.91	1.69					589	350	2.48	1.09						
49	3999	29.56	1.88					679	303	2.15	1.19						
52	3765	27.83	2.00					756	272	1.93	1.23						
61	3246	24.00	2.3					913	226	1.60	1.31						
66	2996	22.15	2.5					1050	196	1.39	1.39						
77	2576	19.04	2.9					30kW									
87	2273	16.80	3.3			R 167 RF167	4	16	16996	92.14	1.0						
101	1963	14.51	3.8					18	14735	79.88	1.15						
114	1736	12.83	4.3					21	13109	71.07	1.29						
42	4713	34.84	0.86					R 107 RF107	4	23	11802	63.98	1.43				
				25	10793					58.51	1.57						
				29	9391					50.91	1.80						
				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						
				72	2724					20.14	1.04	R 97 RF97	4	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		
36	7432	40.29	1.64														
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														
147	1339	9.90	0.83			R 87 RF87	4	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								
				77	3512			19.04	2.1								
				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								
				412	500			3.57	3.36	RX 157 RXF157	4	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														
146	1846	10.01	1.91														
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														
348	592	4.20	1.32			RX 107 RXF107	4					RX 107 RF107	4				
														383	537	3.81	1.45
														432	477	3.38	1.64
														476	433	3.07	1.80
				553	372			2.64	2.10								
				635	324			2.30	2.41								
				749	275			1.95	2.61								
				854	241			1.71	2.75								
				1014	203			1.44	2.99								
				401	513			3.64	1.09	RX 97 RXF97	4						
														442	465	3.30	1.20
														500	412	2.92	1.36
														553	372	2.64	1.50

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole		
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p		
30kW						37kW							
100	2697	14.62	0.80	R 97 RF97	4	39	8507	37.65	0.88	R 137 RF137	4		
118	2285	12.39	0.90			45	7436	32.91	1.01				
135	1998	10.83	0.98			53	6288	27.83	1.20				
158	1708	9.26	1.12			61	5423	24.00	1.38				
174	1544	8.37	1.24			67	5005	22.15	1.51				
206	1308	7.09	1.44			77	4302	19.04	1.75				
235	1144	6.20	1.55			88	3796	16.80	1.98				
282	955	5.18	1.75			101	3279	14.51	2.3				
325	828	4.49	1.85			115	2899	12.83	2.6				
432	649	3.40	1.71	RX 127 RXF127	4	136	2438	10.79	2.8				
476	566	3.07	1.38	RX 107 RXF107	4	169	1968	8.71	3.1				
553	487	2.64	1.60			194	1715	7.59	3.3				
635	424	2.30	1.84			230	1442	6.38	3.7				
749	360	1.95	2.0			285	1164	5.15	3.7				
854	315	1.71	2.1			R 107 RF107	4	74	4478			19.82	0.90
1014	266	1.44	2.3					82	4065	17.99	0.99		
500	539	2.92	1.04	RX 97 RXF97	4			95	3493	15.46	1.16		
553	487	2.64	1.15					109	3050	13.50	1.33		
652	413	2.24	1.35					128	2587	11.45	1.50		
745	362	1.96	1.48					147	2262	10.01	1.56		
890	303	1.64	1.57			174	1912	8.46	1.79				
1028	262	1.42	1.63			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	RX 127 RXF127	4		
						490	707	3.00	1.57				
						568	610	2.59	1.82				
						435	796	3.38	0.98	RX 107 RXF107	4		
						479	723	3.07	1.08				
						557	622	2.64	1.25				
						639	542	2.30	1.44				
						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	R 167 RF167	4		
						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				
						50	8153	29.87	2.08				
						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	R 147 RF147	4		
						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				
						72	5579	20.44	2.0				
						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				

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole 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	R 167	4						
145	9910	10.28	1.61	RF167	4						
170	8484	8.77	1.89								

Technical Parameter Table

Permissible torque	Output speed	Ratio	Type	Power	Permissible torque	Output speed	Ratio	Type	Power		
Nm	r/min	i	Type	kW/4p	Nm	r/min	i	Type	kW/4p		
130	8.5	164	R 27R17 RF27R17	0.18	1550	0.82	1690	R 87R57 RF87R57	0.18		
	8.9	156				0.91	1524				
	10	135				1.0	1395				
	12	118		1.1		1232	0.25				
	13	104		1.2		1145					
	15	90		1.3		1037					
200	4.8	289	R 37R17 RF37R17	0.18		1.6	883		R 87R57 RF87R57	0.37	
	5.7	243				1.7	802				
	6.2	226				1.8	754				
	7.5	185		1.4		1008	0.55				
	8.5	164		2.0		683					
	8.9	156		2.3		599					
	10	135		2.6		538					
	11	127		2.9		472					
13	104	3.4	400	0.75							
15	90	3.5	396								
300	3.2	429	R 47R37 RF47R37			0.18	3.9		361	R 87R57 RF87R57	1.1
	3.7	372					4.0		351		
	4.0	348			4.6		305				
	4.6	301		4.7	300						
	5.5	255		5.2	267						
	6.1	228		5.5	256						
450	2.1	678	R 57R37 RF57R37	0.18	0.32	4309	R 97R57 RF97R57	0.18			
	2.4	589			0.35	4004					
	2.6	537			0.38	3702					
	3.0	471		0.40	3481	0.25					
	3.9	357		0.46	3019						
	4.4	319		0.52	2668						
	5.2	267		0.62	2245						
5.8	241	0.69	2016								
600	1.7	836	R 67R37 RF67R37	0.18	0.76	1823	R 97R57 RF97R57	0.37			
	1.9	750			0.80	1733					
	2.0	730			0.86	1623					
	2.2	630			0.88	1583					
	2.4	571			0.97	1434					
	2.5	561		1.00	1396						
	2.8	495		1.1	1228	0.55					
	2.9	486		1.2	1207						
	3.2	438		1.3	1084						
	3.6	388		1.3	1068						
4.1	336	1.5	937								
4.8	287	1.5	934								
820	1.2	1124	R 77R37 RF77R37	0.18	1.6	878	R 97R57 RF97R57	0.75			
	1.3	1047			1.7	824					
	1.5	915			1.8	755					
	1.6	858		1.9	737	1.1					
	2.1	671		2.1	631						
	2.4	571		2.2	625						
	2.5	547		2.5	549						
	2.9	477		2.6	560	1.5					
	3.3	426		2.9	484						
	3.8	364		3.2	430						
	4.5	312		3.7	379						
	4.5	310		4.1	336						
5.6	248	4.7	296								
1550	0.65	2129	R 87R57 RF87R57	0.18	5.1	270	R 97R57 RF97R57	2.2			
	0.71	1955			5.6	249					
	0.72	1930			5.9	234					
	0.79	1737			6.1	227					
	0.80	1733									

Technical Parameter Table

Permissible torque	Output speed	Ratio	Type	Power	Permissible torque	Output speed	Ratio	Type	Power	
Nm	r/min	i	Type	kW/4p	Nm	r/min	i	Type	kW/4p	
4300	0.21	6690	R 107R77 RF107R77	0.18	8000	0.34	4018	R 137R77 RF137R77	0.37	
	0.24	5735				0.35	3928			
	0.27	5127				0.40	3514			
	0.32	4302				0.41	3377			
	0.36	3870		0.25		0.42	3338		0.55	
	0.36	3847				0.47	2929			
	0.42	3302				0.48	2926			
	0.46	3015				0.52	2658			
	0.46	2997		0.37		0.56	2484		0.75	
	0.53	2621				0.58	2412			
	0.62	2252				0.62	2242			
	0.68	2041				0.67	2073			
	0.71	1971		0.55		0.75	1863		1.1	
	0.77	1813				0.76	1839			
	0.83	1673				0.88	1598			
	0.88	1587				1.0	1397		1.5	
	0.91	1531				1.1	1226			
	1.00	1390		0.75		1.3	1090			
	1.00	1389				1.3	1080			
	1.14	1216				1.4	1020			
	1.2	1194		1.1		1.5	951		2.2	
	1.27	1095				1.6	869			
	1.3	1043				1.7	831			
	1.50	927				2.0	730			
	1.6	888		1.5		2.1	684		3	
	1.7	787				2.3	629			
	2.0	692				2.3	609			
	2.3	605		2.2		2.6	564		4	
	2.4	598				2.6	549			
	2.6	530				2.8	517			
	2.7	510				2.9	490		5.5	
	2.9	479		3		3.2	453			
	3.1	463				3.4	428			
	3.4	420				3.8	376			
	3.5	406		4		3.8	374		0.18	
	3.8	373				4.2	339			
	4.0	357				4.5	317			
	4.5	321				4.8	297		0.25	
	4.6	313		4		5.0	286			
	5.1	281				5.8	250			
	5.2	277		13000	0.08	18210	0.37			
	5.7	253			3				0.09	15923
	5.8	245							0.10	14075
	6.6	217							0.12	12344
6.9	208	R 147R77 RF147R77	0.18		0.13	11143	R 147R77 RF147R77	0.25		
7.5	191				0.15	9743				
7.9	181				0.17	8443				
8.6	167				0.20	7307				
0.12	11712		0.25		0.22	6447		0.37		
0.13	10573				0.26	5568				
0.16	8784				0.30	4815				
0.19	7479				0.33	4325		0.55		
0.22	6412		0.37		0.39	3669				
0.24	5834				0.44	3228				
0.28	5001				0.50	2833				
0.30	4709									
0.32	4364									

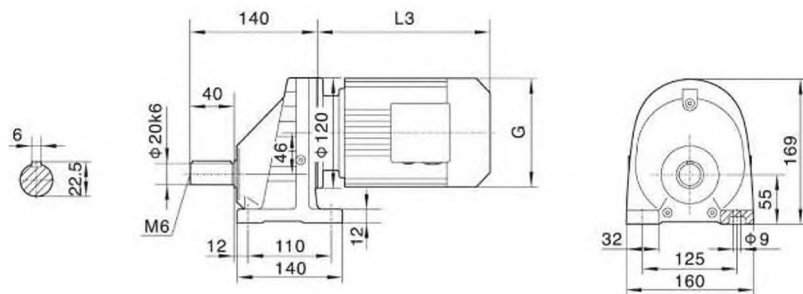
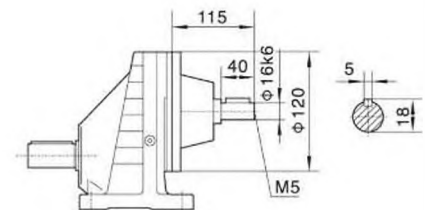
All gear units are overloaded in above table. Determination of operating torque should not higher than the gear unit's nominal torque.

Technical Parameter Table

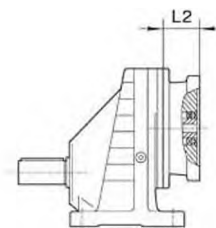
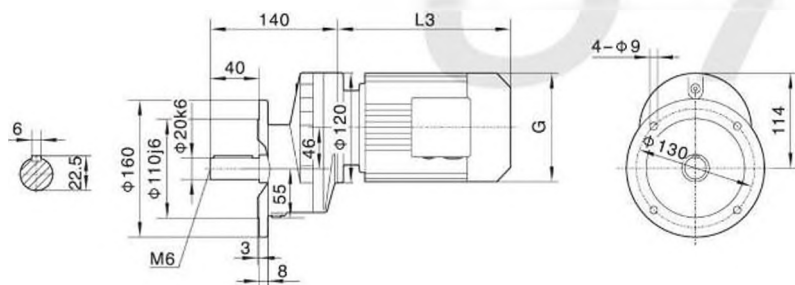
Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p	Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
13000	0.56	2555	R 147R77 RF147R77	1.1	11	4.9	295	R 167R107 RF167R107	11
	0.65	2211				5.1	287		
	0.73	1951				5.2	281		
	0.84	1705		1.5		5.6	260		
	0.93	1536				6.1	238		15
	1.1	1329		2.2		6.5	224		
	1.2	1166	R 147R87 RF147R87			7.0	208	R 167R107 RF167R107	
	1.4	1029				7.5	195		
	1.6	889		3					
	1.8	784							
	2.1	695		4					
	2.4	607							
	2.6	547		5.5					
	3.0	480		4					
	2.7	540	R 167R97 RF167R97						
	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				R 167R97 RF167R97	
	0.06	22482							
	0.07	20002							
	0.08	17361							
	0.09	15446							
	0.10	14051							
	0.12	11812							
	0.13	10519							
	0.14	9754	R 167R97 RF167R97	0.75					
	0.23	6069							
	0.26	5399							
	0.30	4709							
	0.33	4182							
	0.18	7749		1.1					
	0.20	6894							
	0.37	3739							
	0.54	2657	R 167R97 RF167R97	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	R 167R97 RF167R97	4					
	1.9	770							
	2.2	664		5.5					
	2.5	578							
	2.8	510							
	3.3	438		7.5					
	3.8	380							
	4.3	338							
	4.8	307	R 167R97 RF167R97	11					
	5.2	282							

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

Dimensional Drawings

RX37

RX..S37


Customers provide the motor by themselves
need connected flange.

RXF37


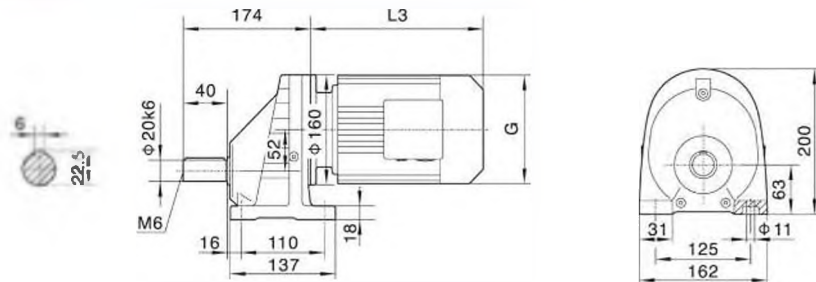
Note: For other values please
refer to relevant structure.

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

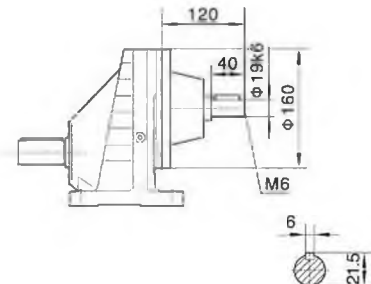
Note: "RX.." means RX, RXF.

Dimensional Drawings

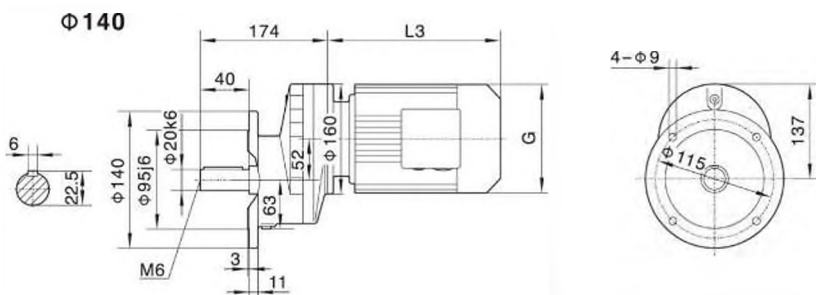
RX57



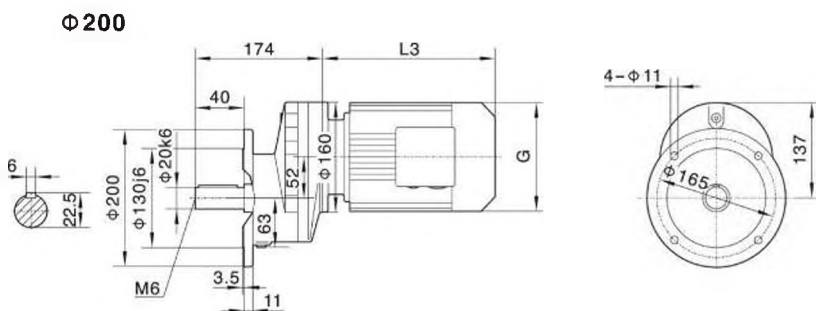
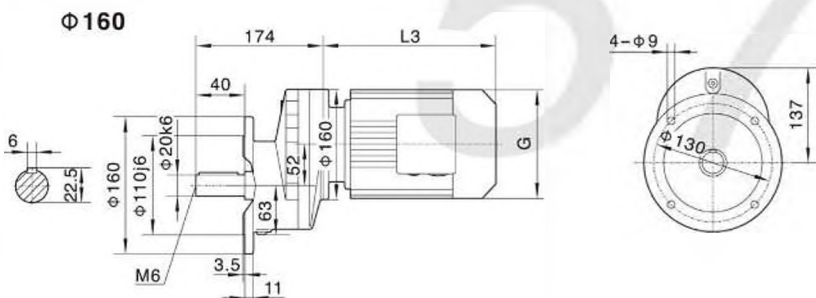
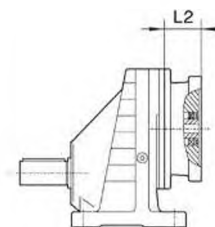
RX..S57



RXF57



Customers provide the motor by themselves
need connected flange.

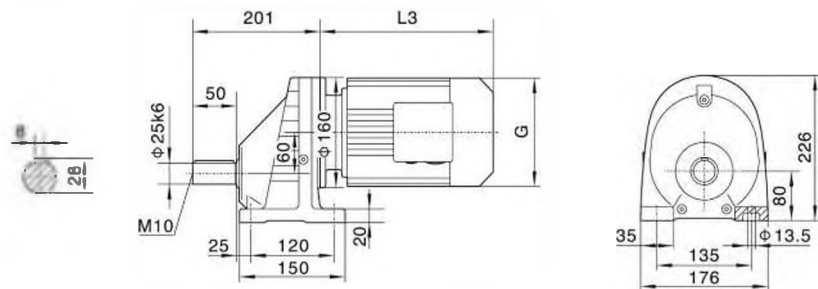
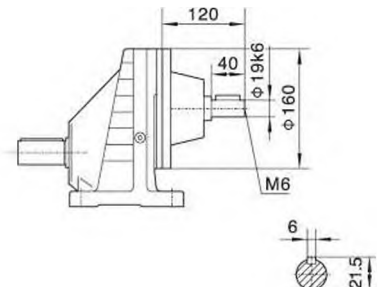
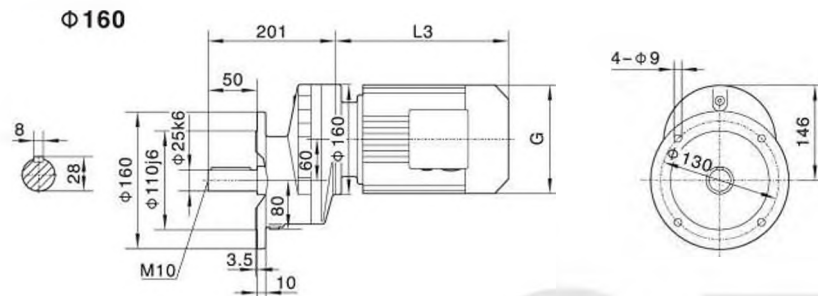


Note: For other values please
refer to relevant structure.

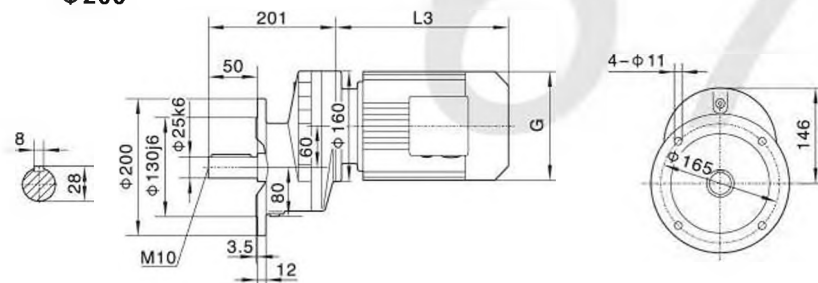
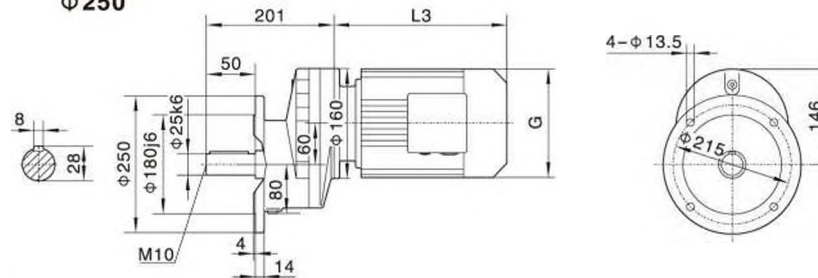
Motor size	63	71	80	90S	90L	100	112M	132S	
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	
L3	223	245	278	304	328	350	380	425	
G	130	145	175	195	195	215	240	275	
L2	81	81	81	81	81	93	93	101	

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

Dimensional Drawings

RX67

RX..S67

RXF67


Customers provide the motor by themselves
need connected flange.

 $\phi 200$

 $\phi 250$


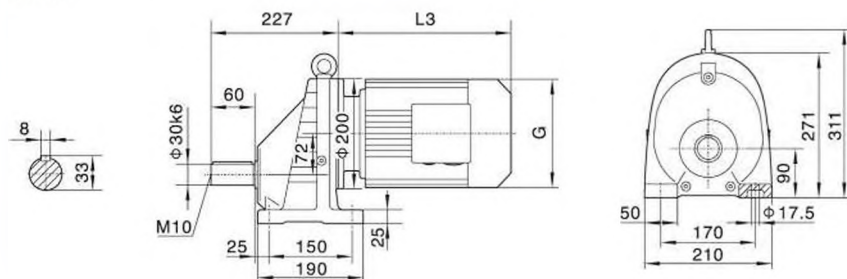
Note: For other values please
refer to relevant structure.

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	

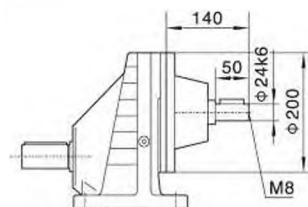
Note: "RX.." means RX, RXF.

Dimensional Drawings

RX77

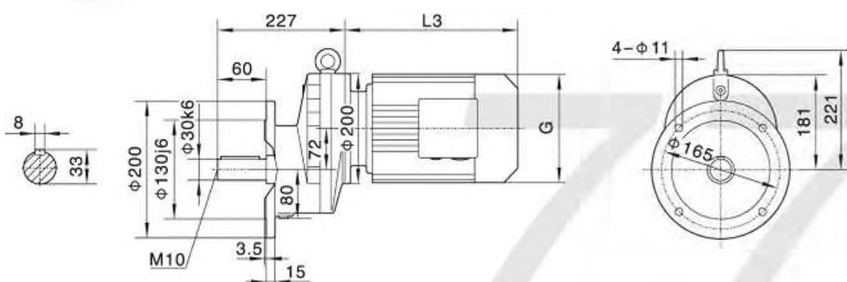


RX..S77



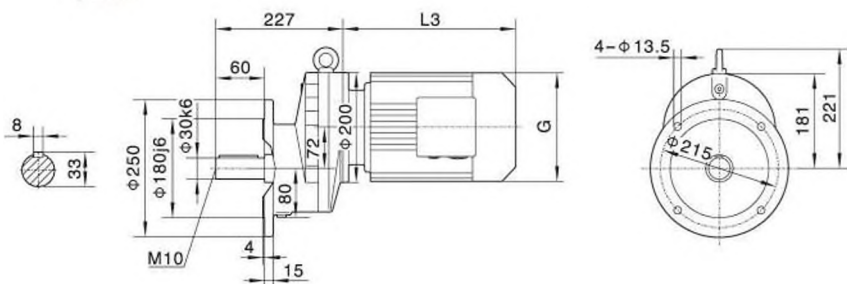
RXF77

Φ 200



Customers provide the motor by themselves
need connected flange.

Φ 250

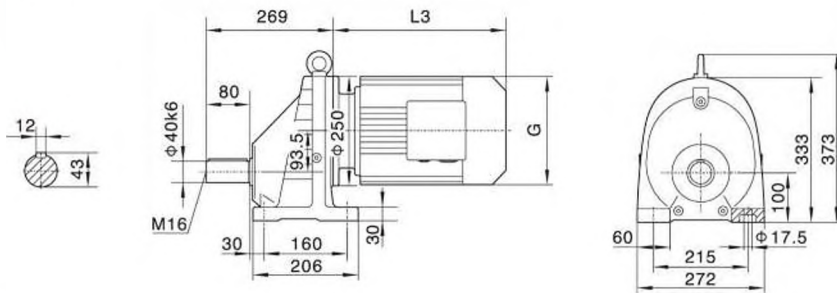
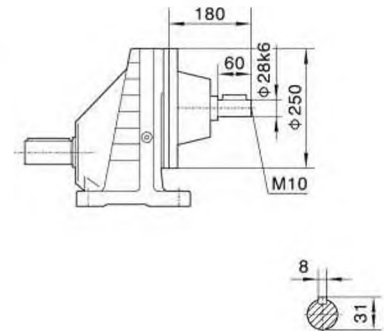
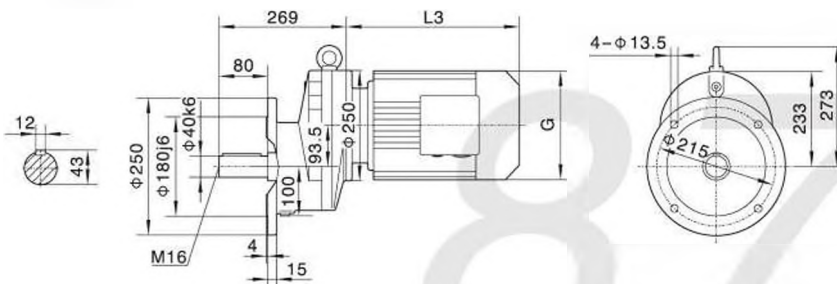
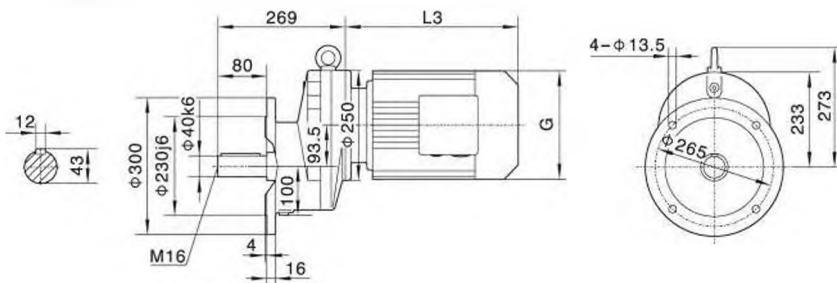


Note: For other values please
refer to relevant structure.

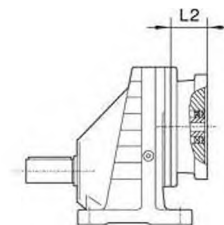
Motor size	90S	90L	100	112M	132S	132M	160M
Power/(kW)	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11
L3	304	328	350	380	425	461	524
G	195	195	215	240	275	275	330
L2	81	81	93	93	101	101	126

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

Dimensional Drawings

RX87

RX..S87

RXF87
Φ 250

Φ 300


Customers provide the motor by themselves
need connected flange.



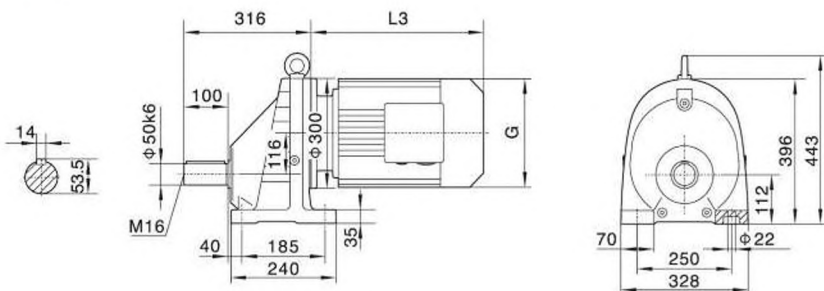
Note: For other values please
refer to relevant structure.

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	

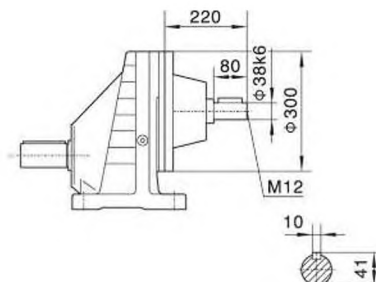
Note: "RX.." means RX, RXF.

Dimensional Drawings

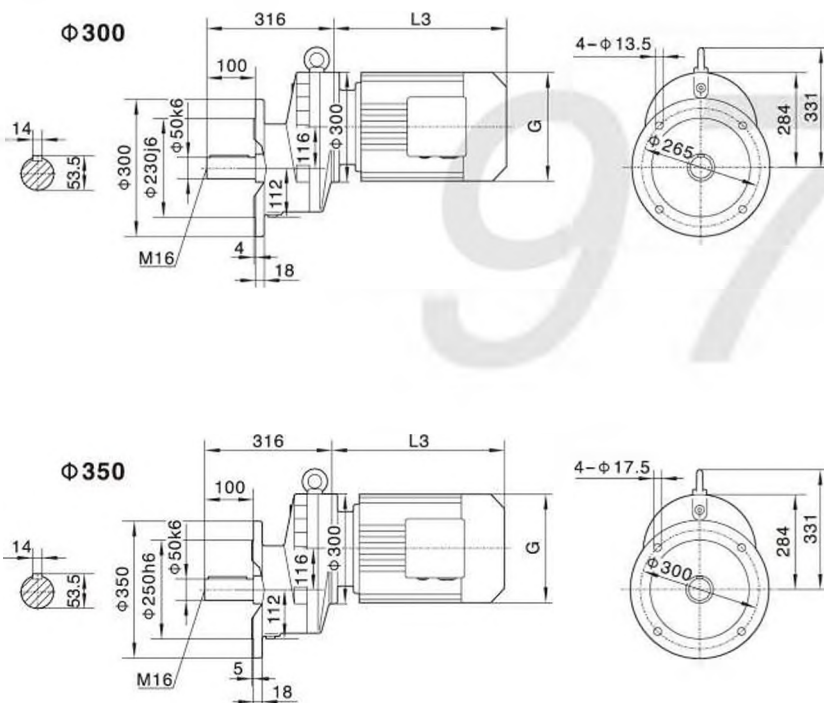
RX97



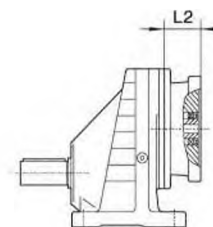
RX..S97



RXF97



Customers provide the motor by themselves
need connected flange.

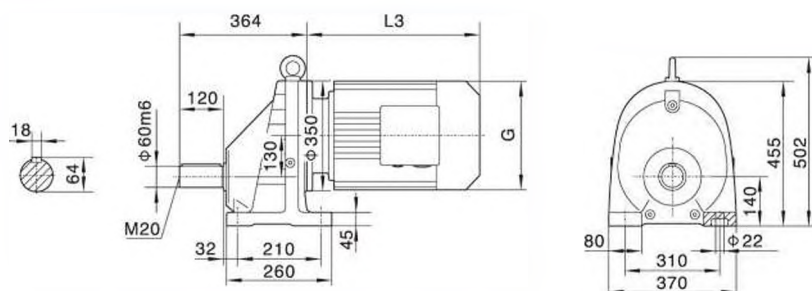
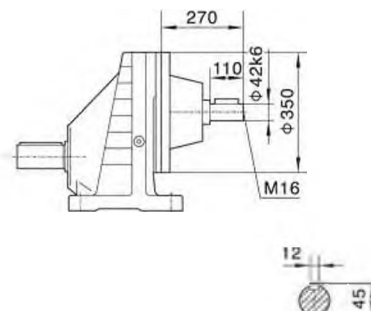
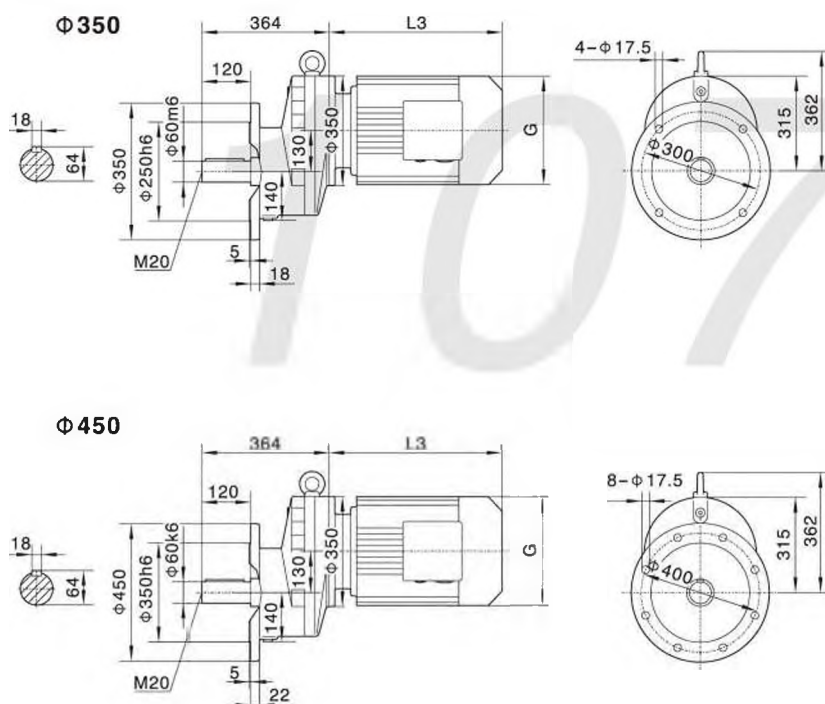


Note: For other values please
refer to relevant structure.

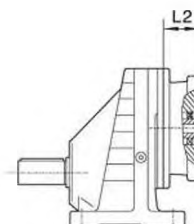
Motor size	132S	132M	160M	160L	180M	180L	200	
Power/(kW)	5.5	7.5	11	15	18.5	22	30	
L3	425	461	524	547	555	588	654	
G	275	275	330	330	380	380	420	
L2	101	101	126	126	126	126	126	

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

Dimensional Drawings

RX107

RX..S107

RXF107


Customers provide the motor by themselves
need connected flange.



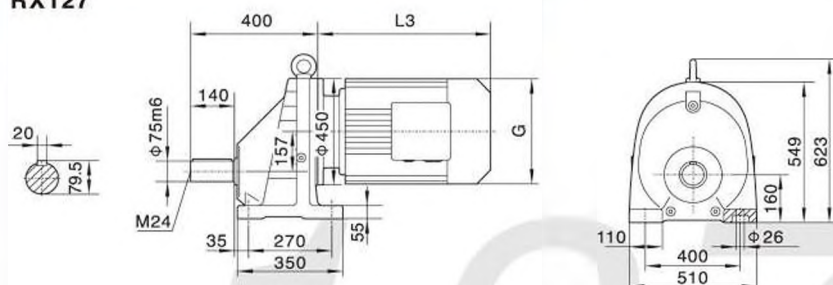
Note: For other values please
refer to relevant structure.

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	

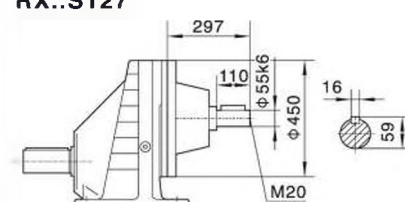
Note: "RX.." means RX, RXF.

Dimensional Drawings

RX127

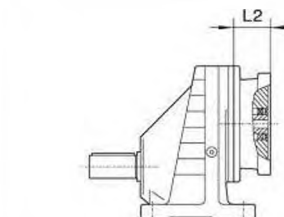
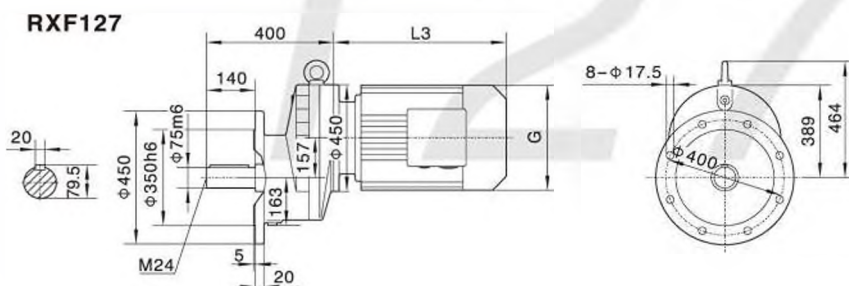


RX..S127



Customers provide the motor by themselves
need connected flange.

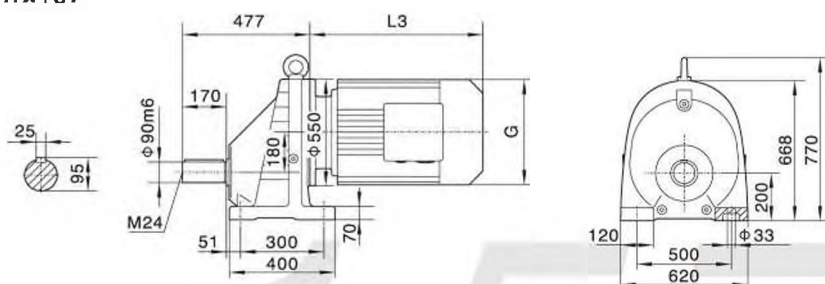
RXF127



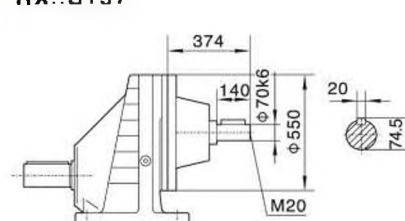
Note: For other values please
refer to relevant structure.

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

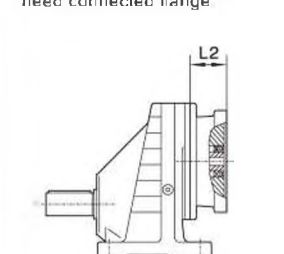
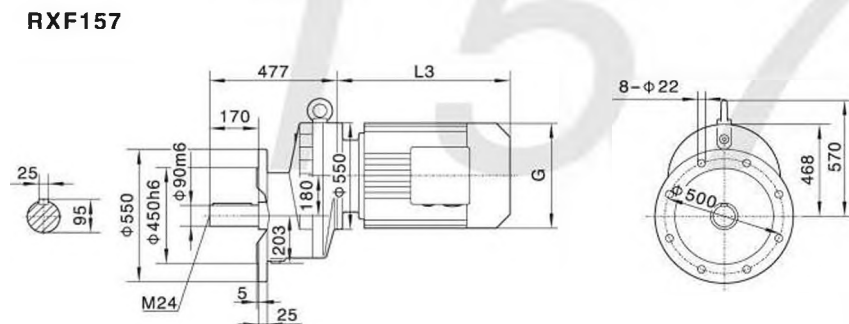


RX..S157



Customers provide the motor by themselves
need connected flange.

RXF157

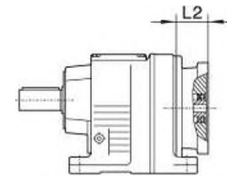
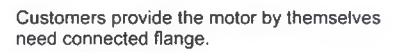


Note: For other values please
refer to relevant structure.

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



RF17

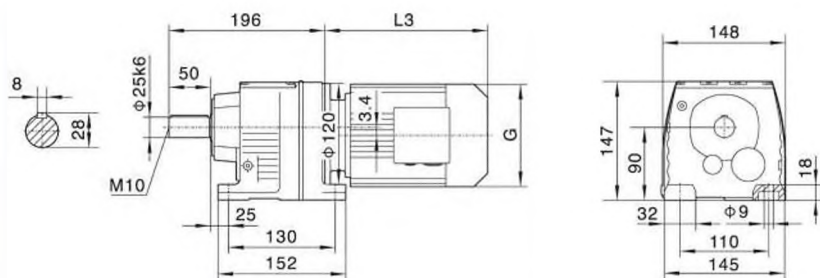
Note: For other values please refer to relevant structure.



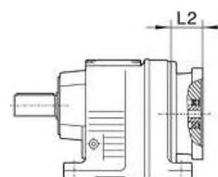
Note: "R." means R, RF.

Dimensional Drawings

R27

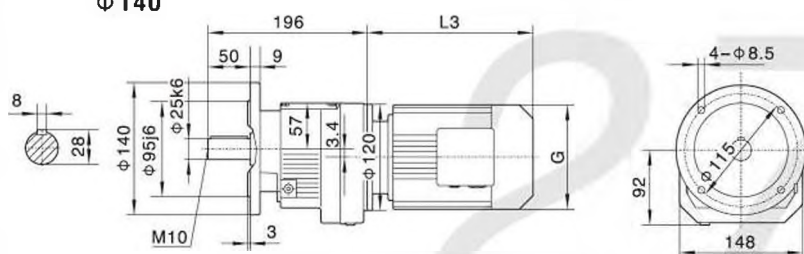


Customers provide the motor by themselves
need connected flange.

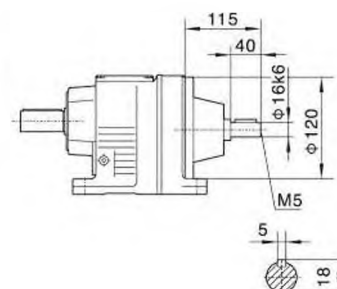


RF27

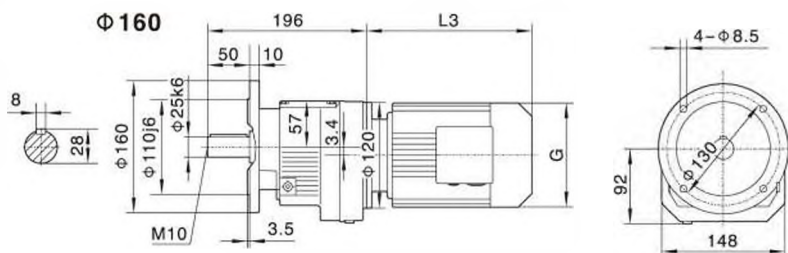
Φ 140



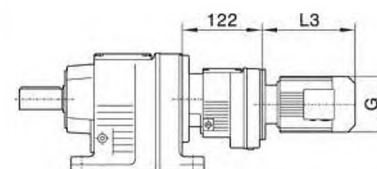
R..S27



Φ 160



R..27R17

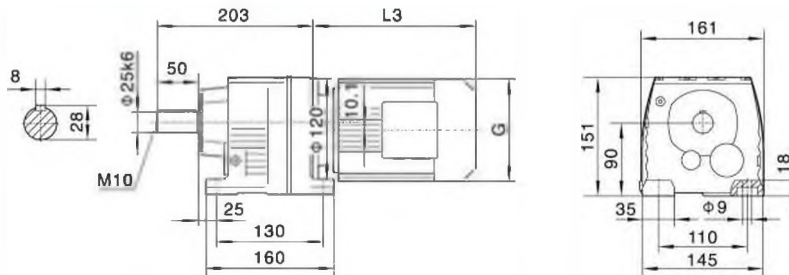


Note: For other values please refer to relevant structure.

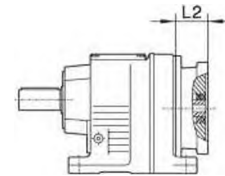
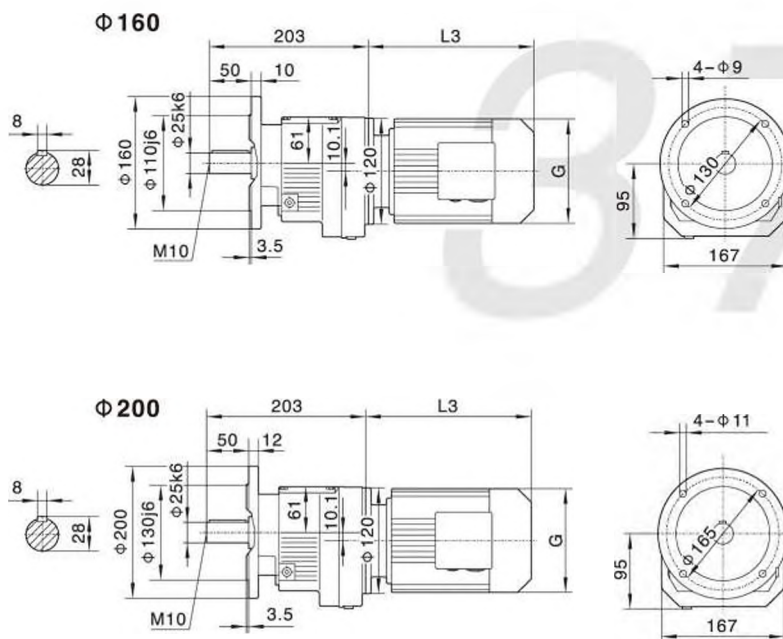
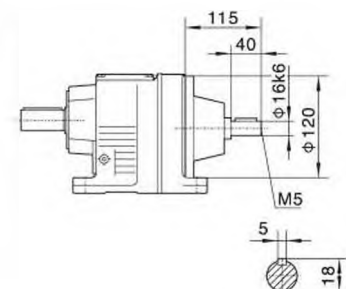
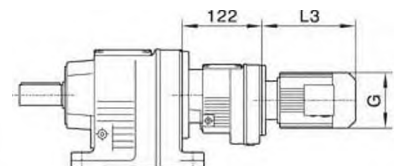
Motor size	63	71		80		90S	90L	100		
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	
L3	235	245		278		304	328	340		
G	130	145		175		195	195	215		
L2	71	71		71		71	71	93		

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

Dimensional Drawings

R37


Customers provide the motor by themselves
need connected flange.


RF37

R..S37

R..37R17


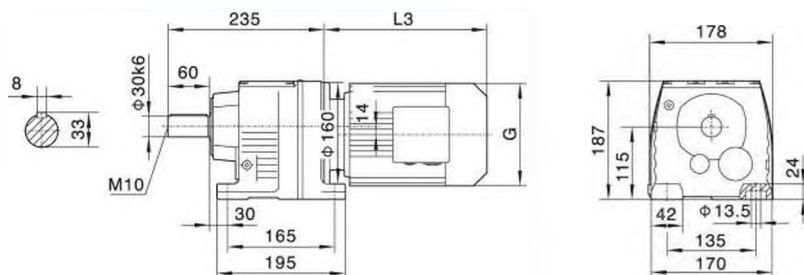
Note: For other values please
refer to relevant structure.

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	

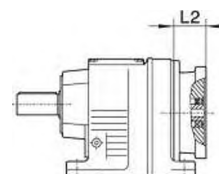
Note: "R.." means R, RF.

Dimensional Drawings

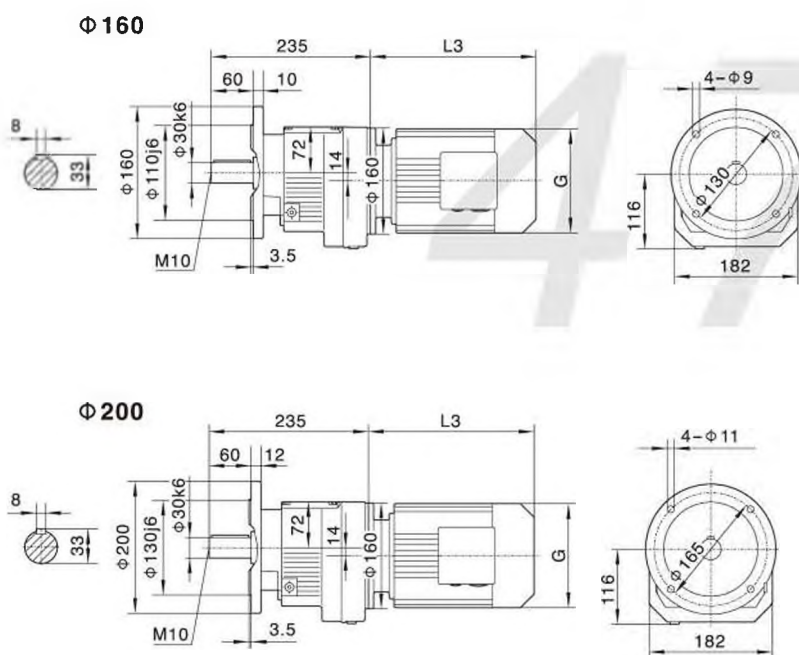
R47



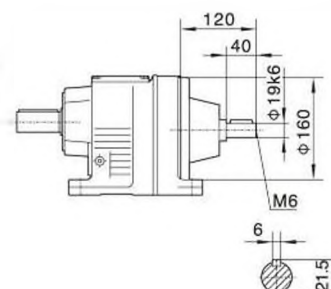
Customers provide the motor by themselves
need connected flange.



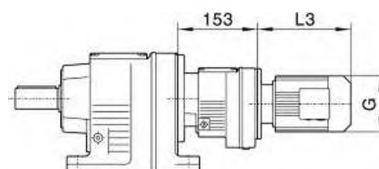
RF47



R..S47



R..47R37

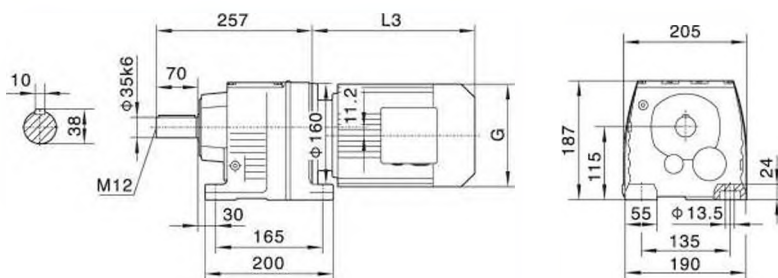


Note: For other values please
refer to relevant structure.

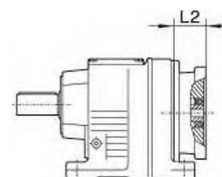
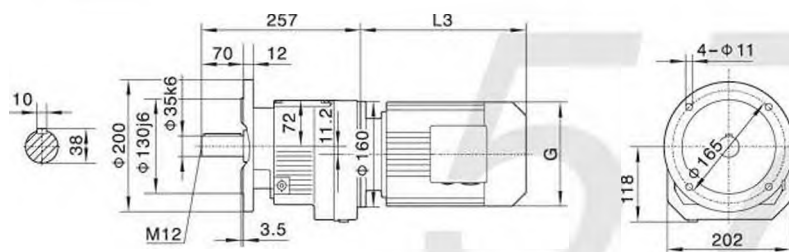
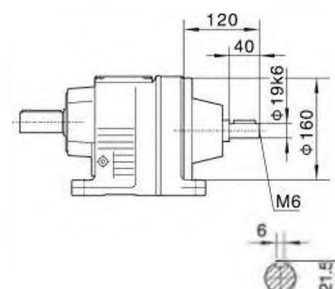
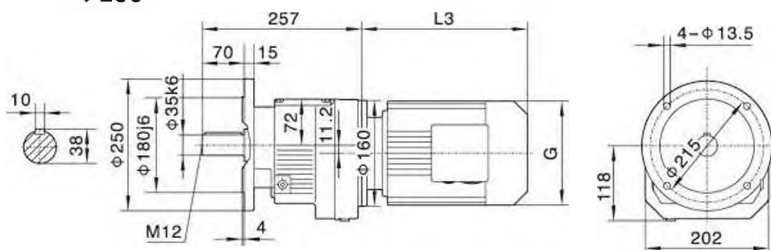
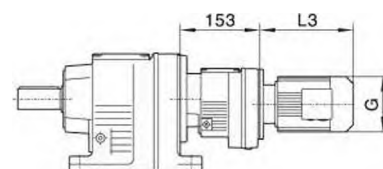
Motor size	63	71	80	90S	90L	100	112M	132S	
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	
L3	223	245	278	304	328	350	380	425	
G	130	145	175	195	195	215	240	275	
L2	81	81	81	81	81	93	93	101	

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

Dimensional Drawings

R57


Customers provide the motor by themselves
need connected flange.


RF57
 $\phi 200$

R..S57

 $\phi 250$

R..57R37


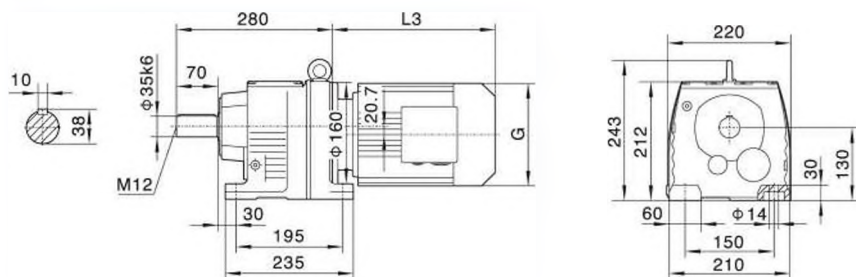
Note: For other values please
refer to relevant structure.

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	

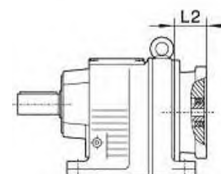
Note: "R.." means R, RF.

Dimensional Drawings

R67

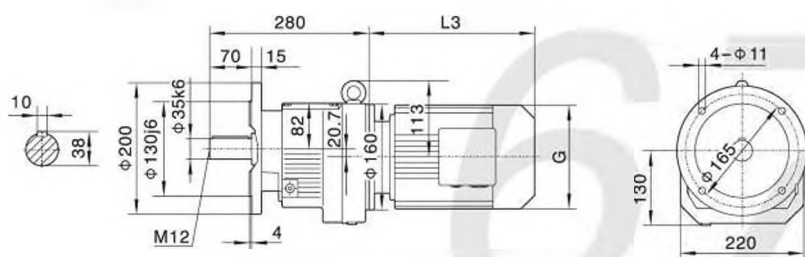


Customers provide the motor by themselves
need connected flange.

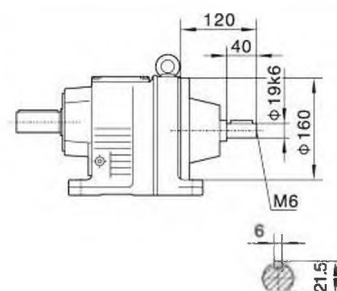


RF67

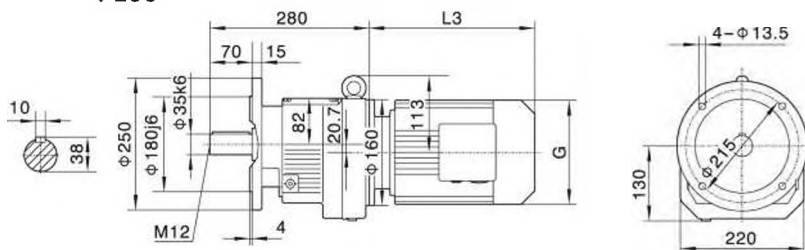
Φ 200



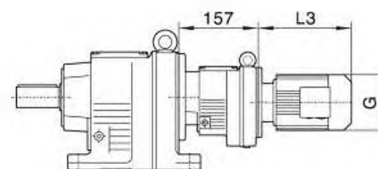
R..S67



Φ 250



R..67R37

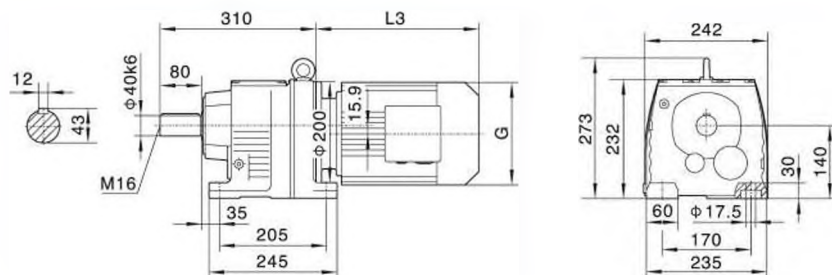


Note: For other values please
refer to relevant structure.

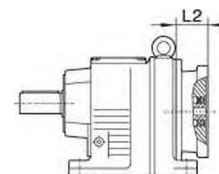
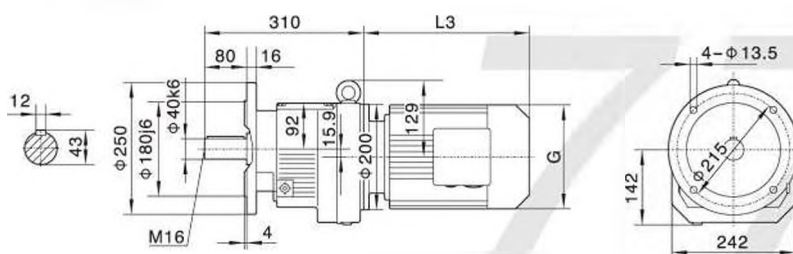
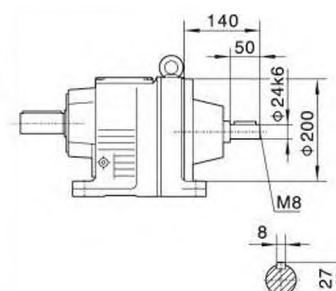
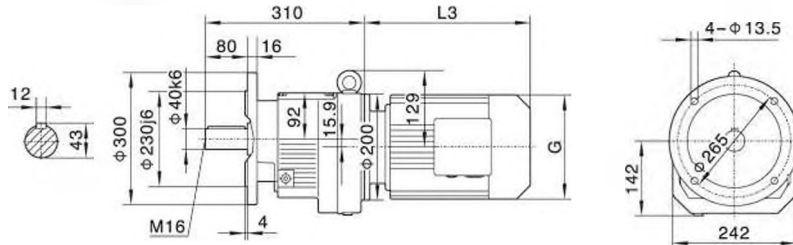
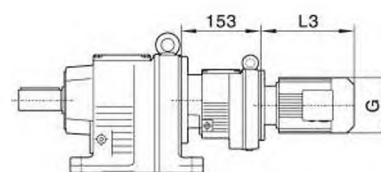
Motor size	63	71	80	90S	90L	100L	112M	132S	132M	
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	
L3	223	245	278	304	328	350	380	425	461	
G	130	145	175	195	195	215	240	275	275	
L2	81	81	81	81	81	93	93	101	101	

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

Dimensional Drawings

R77


Customers provide the motor by themselves
need connected flange.


RF77
Φ250

R..S77

Φ300

R..77R37


Note: For other values please
refer to relevant structure.

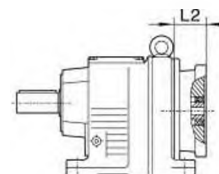
Motor size	63	71	80	90S	90L	100L	112M	132S	132M	160M
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11
L3	223	233	278	304	328	350	380	425	461	524
G	130	145	175	195	195	215	240	275	275	330
L2	81	81	81	81	81	93	93	101	101	126

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

Dimensional Drawings

[illegible]

Customers provide the motor by themselves
need connected flange.



Φ 300

[illegible]

R..S87

Technical drawing of the motor showing dimensions: 180, 60, 28, 250, M10, 8, 31.

Φ 350

[illegible]

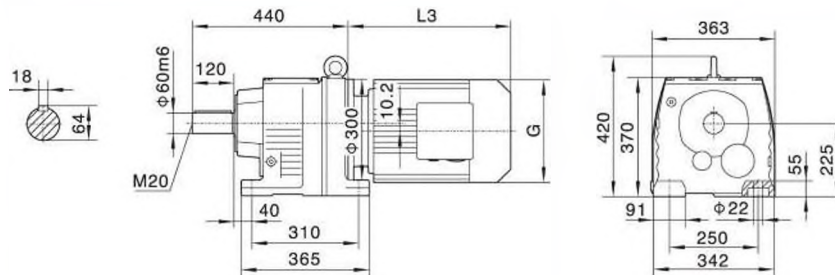
R..87R57

Note: For other values please refer to relevant structure.

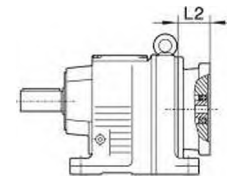
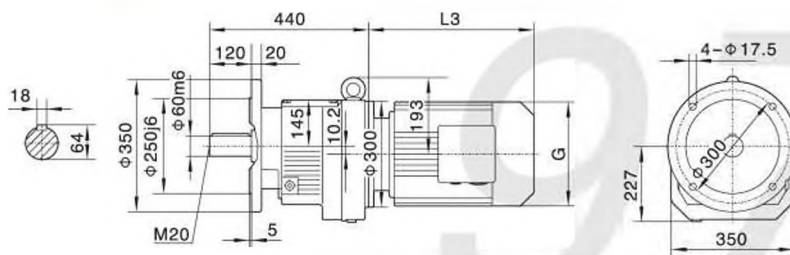
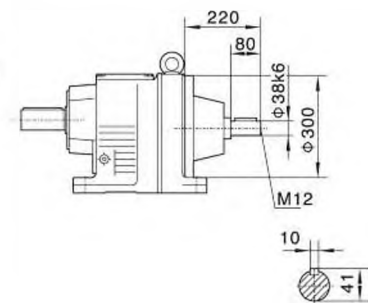
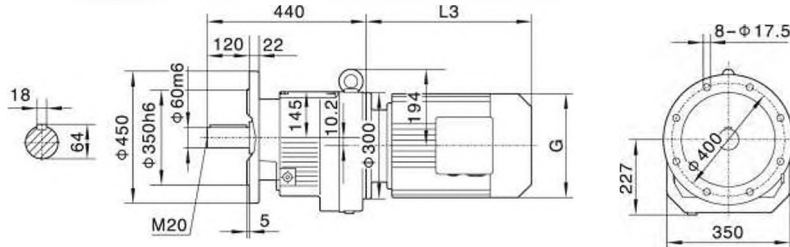
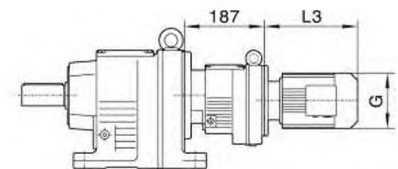
Motor size	80		90S	90L	100		112M	132S	132M	160M	160L	180M	180L
Power/(kW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22
L3	246		280	304	350		380	425	461	524	547	583	616
G	175		195	195	215		240	275	275	330	330	380	380
L2	86		86	86	71		71	101	101	126	126	126	126

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

Dimensional Drawings

R97


Customers provide the motor by themselves
need connected flange.


RF97
Φ 350

R..S97

Φ 450

R..97R57


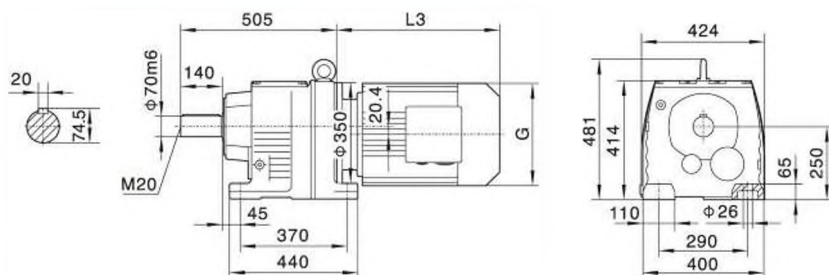
Note: For other values please
refer to relevant structure.

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	

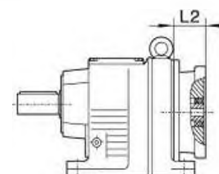
Note: "R.." means R, RF.

Dimensional Drawings

R107

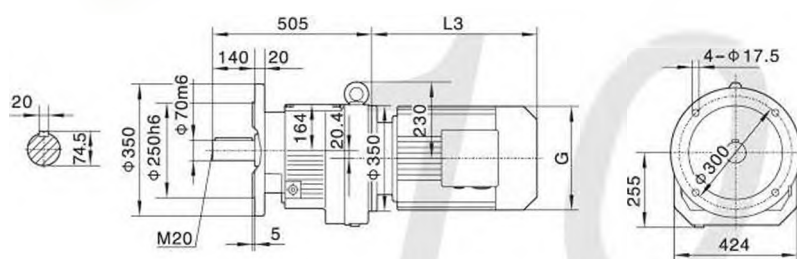


Customers provide the motor by themselves
need connected flange.

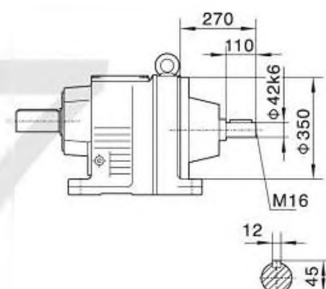


RF107

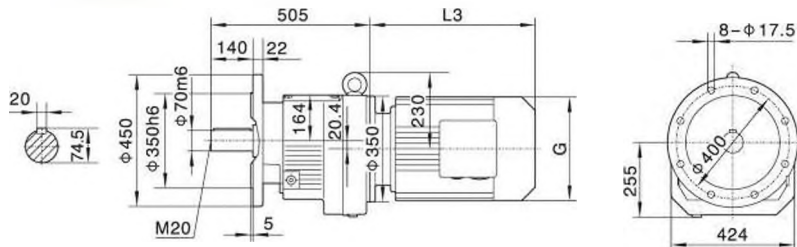
$\phi 350$



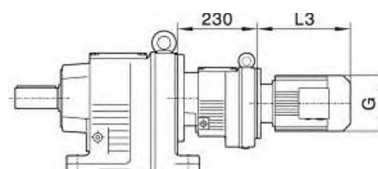
R..S107



$\phi 450$



R..107R77

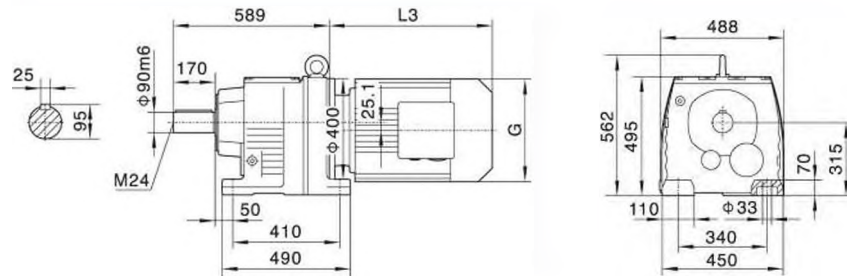


Note: For other values please
refer to relevant structure.

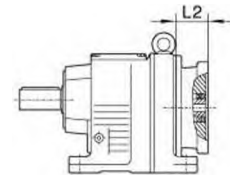
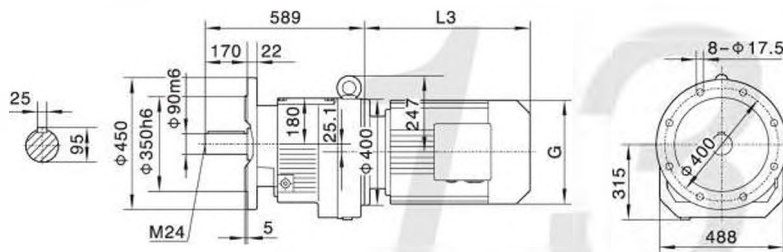
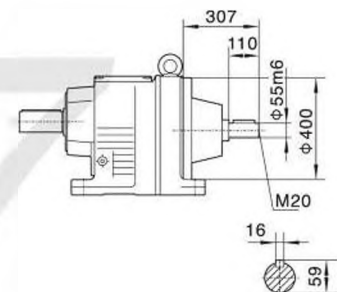
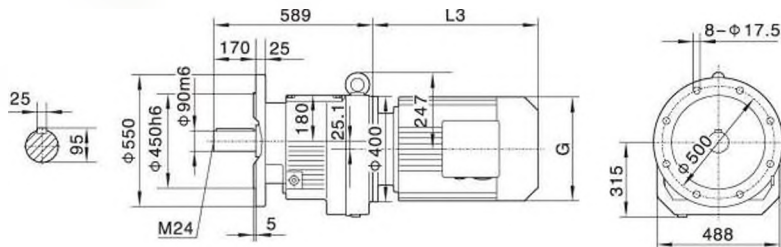
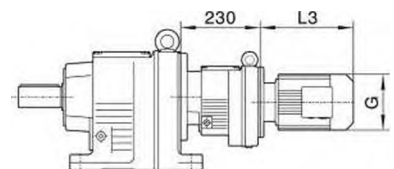
Motor size	100	112M	132S	132M	160M	160L	180M	180L	200	225S	225M	
Power/(kW)	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	30	37	45
L3	318	334	386	422	504	519	555	588	654	680	702	
G	215	240	275	275	330	330	380	380	420	470	470	
L2	101	101	101	101	126	126	126	126	132	132	132	

Note: "R." means R, RF.

Dimensional Drawings

R137


Customers provide the motor by themselves
need connected flange.


RF137
Φ 450

R..S137

Φ 550

R..137R77


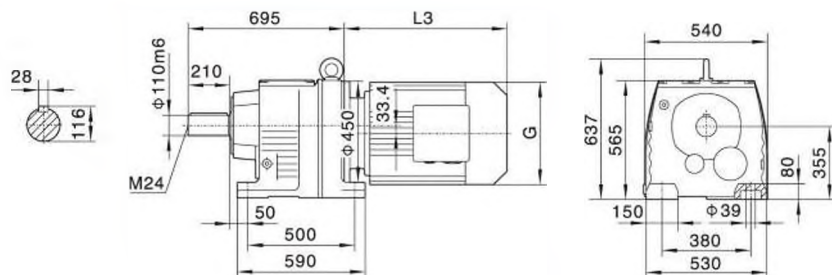
Note: For other values please
refer to relevant structure.

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	

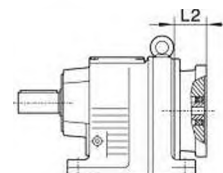
Note: "R.." means R, RF.

Dimensional Drawings

R147

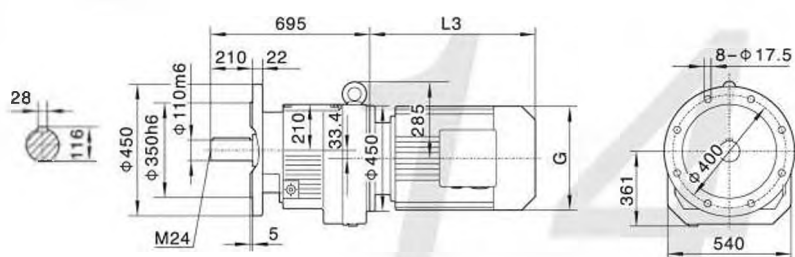


Customers provide the motor by themselves
need connected flange.

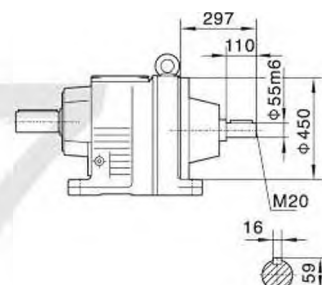


RF147

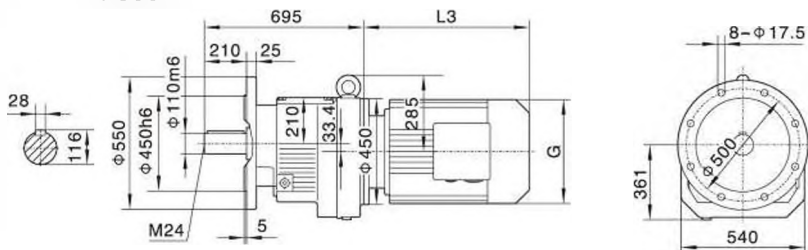
Φ 450



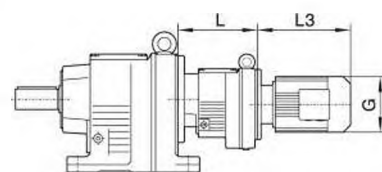
R..S147



Φ 550



R..147R87(R77)



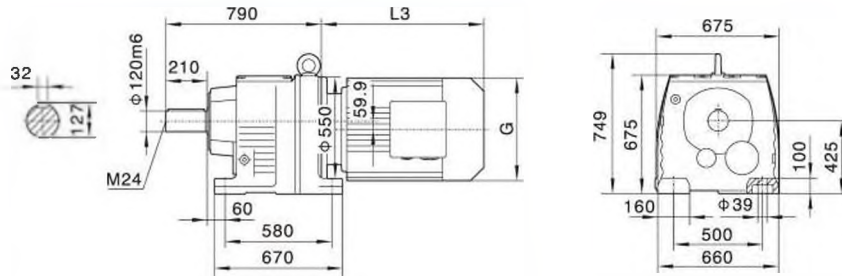
	R 147R77	R. 147R87
L	230	275

Note: For other values please
refer to relevant structure.

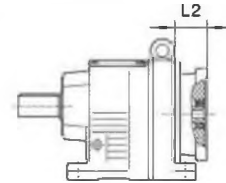
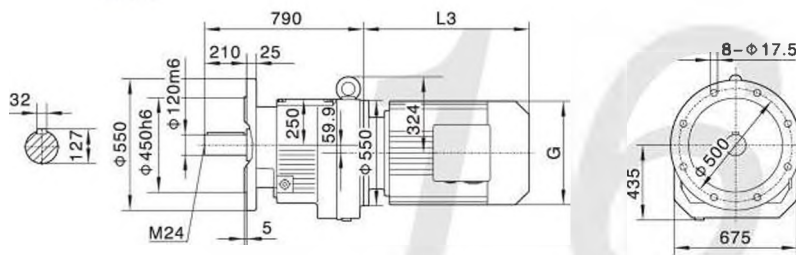
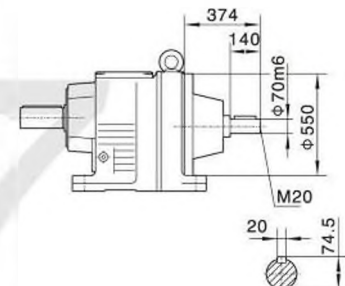
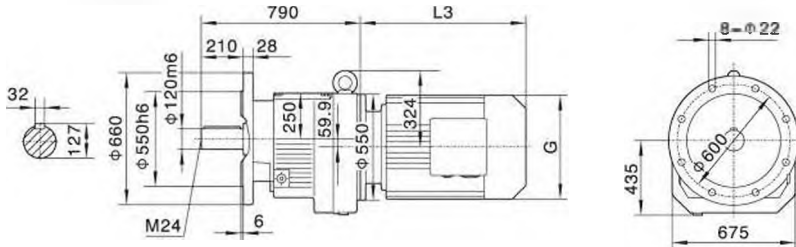
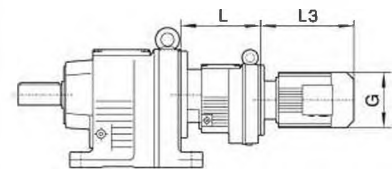
Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	
L3	567	602	583	616	654	674	696	775	845	845	
G	330	330	380	380	420	470	470	510	580	580	
L2	132	132	132	132	132	143	143	174	174	174	

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

Dimensional Drawings

R167


Customers provide the motor by themselves
need connected flange.


RF167
Φ 550

R..S167

Φ 660

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.



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