

NIS *Drives*

Gear Motor

Series R

Selection Catalog



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1. Product Description

a. General Information

Operating Ambient Temperature

NIS Gear Motors can be operated with a Temperature Range from -40°C to 50°C. However care should be taken for operating below 0°C. Kindly consult us for operating below 0°C.

Installation Altitude

Due to the low air density in high altitudes, heat dissipation decreases and therefore the rated data on this catalog applies to a maximum altitude of 1000 meters.

Power and Torque

The Power and Torque Ratings on this catalog refers to the Horizontal Mounting Position (M1) with Standard Version and Standard Lubrication and under Standard Operating Conditions.

Input Components

Motor Adapters for IEC Standard Motors

Solid Input Shaft

Weights

Please note that all weights shown on this catalog does not include Motor and Oil Filled.

b. Models and Description

R Series can only come with Solid Output Shaft

Model	Description	
	Input Component	Mounting Type
R	Motor Adapter	Foot Mounted
RF	Motor Adapter	Flange Mounted
R.....D	Solid Input Shaft	Foot Mounted
RF....AD	Solid Input Shaft	Flange Mounted

c. How to select?

Basic Data you need to have using Motor Power

Description	Unit
• Motor Power	KW (1HP = 0.75KW)
• Motor Speed	Standard is 4P (1450RPM)
• Output Speed or	RPM
• Ratio	No unit
• Service Factor Requirement (SF)	No unit

If using Output Torque Requirement, you will need to know the Output Torque in Nm instead of Motor Power.

Example 1 (using Output Speed)

Gear Motor require is 5.5KW 30RPM with minimum Service Factor 1.5

Step 1

Search for Motor Power 5.5KW as shown Table below

Step 2

Look at the 'Output Speed' Column and search for 30RPM or close

Step 3

Look at the 'Service Factor' Column and must be above 1.5 if no go to the next size

Output speed r/min	Output torque N .M	Ratio i	Service factor SF	Type		Pole P
5.5KW						
17	2898	83.15	1	R RF	97	4P
20	2518	72.17	1.15		97	4P
22	2271	65.21	1.25			
24	2090	59.92	1.35			
27	1853	53.21	1.55			
30	1663	47.58	1.7			
33	1492	42.78	1.9			
39	1292	37.13	2.2			
43	1159	33.25	2.4			
52	960	27.58	2.6			
45	1121	32.05	2.2	R	97	4P
53	950	27.19	2.6	RF	97	4P
57	874	25.03	3.1			
64	779	22.37	3.3			
71	703	20.14	3.5			
78	637	18.24	3.7			
88	565	16.17	4			

Result:

Size R87 will be suitable for this example as the Service Factor fs is 1.70 with 5.5KW Motor and Output Speed of 30RPM

Example 2 (using Ratio)

Gear Motor require is 2.2KW Ratio 15 with minimum Service Factor 2.0

Step 1

Search for Motor Power 2.2KW as shown Table below

Step 2

Look at the 'Ratio' Column and search for 15 or closest to 15

Step 3

Look at the 'Service Factor' Column and search for Unit Size with Service Factor 2.0 and above

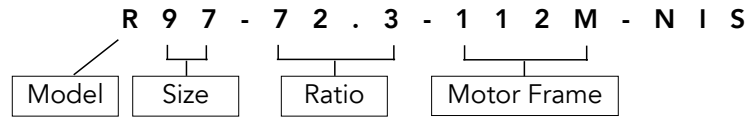
Output speed r/min	Output torque N .M	Ratio i	Service factor SF	Type		Pole P
2.2KW						
38	527	37.3	0.8	R	57	4P
40	499	35.07	0.85	RF	57	4P
47	428	30.18	1			
52	380	26.97	1.1			
64	309	21.93	1.4	R	57	4P
76	261	18.6	1.6	RF	57	4P
84	238	16.79	1.8			
95	209	14.77	2			
101	200	13.95	2.1			
119	168	11.88	2.3			
131	153	10.79	2.4			
151	132	9.35	2.7			
156	128	9.06	2.8			
177	113	7.97	3			
73	271	19.27	1.05	R	47	4P
87	228	16.22	1.15	RF	47	4P

Result:

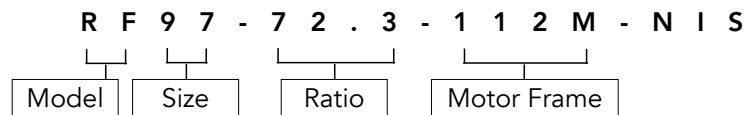
For 2.2KW Motor - Size R57 with Ratio 14.77 is suitable as the Service Factor is 2.0

d. Part No. / Nomenclature

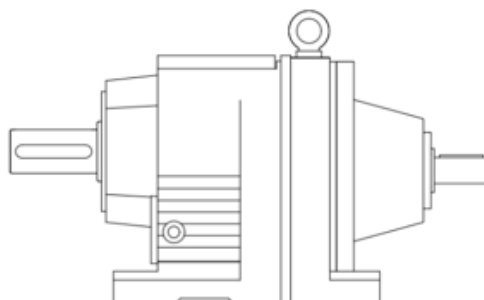
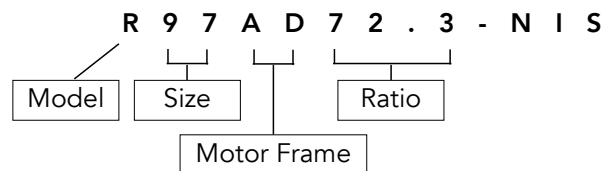
Standard Helical In-Line Gear Motor – Foot Mounted



Standard Helical In-Line Gear Motor – Flange Mounted

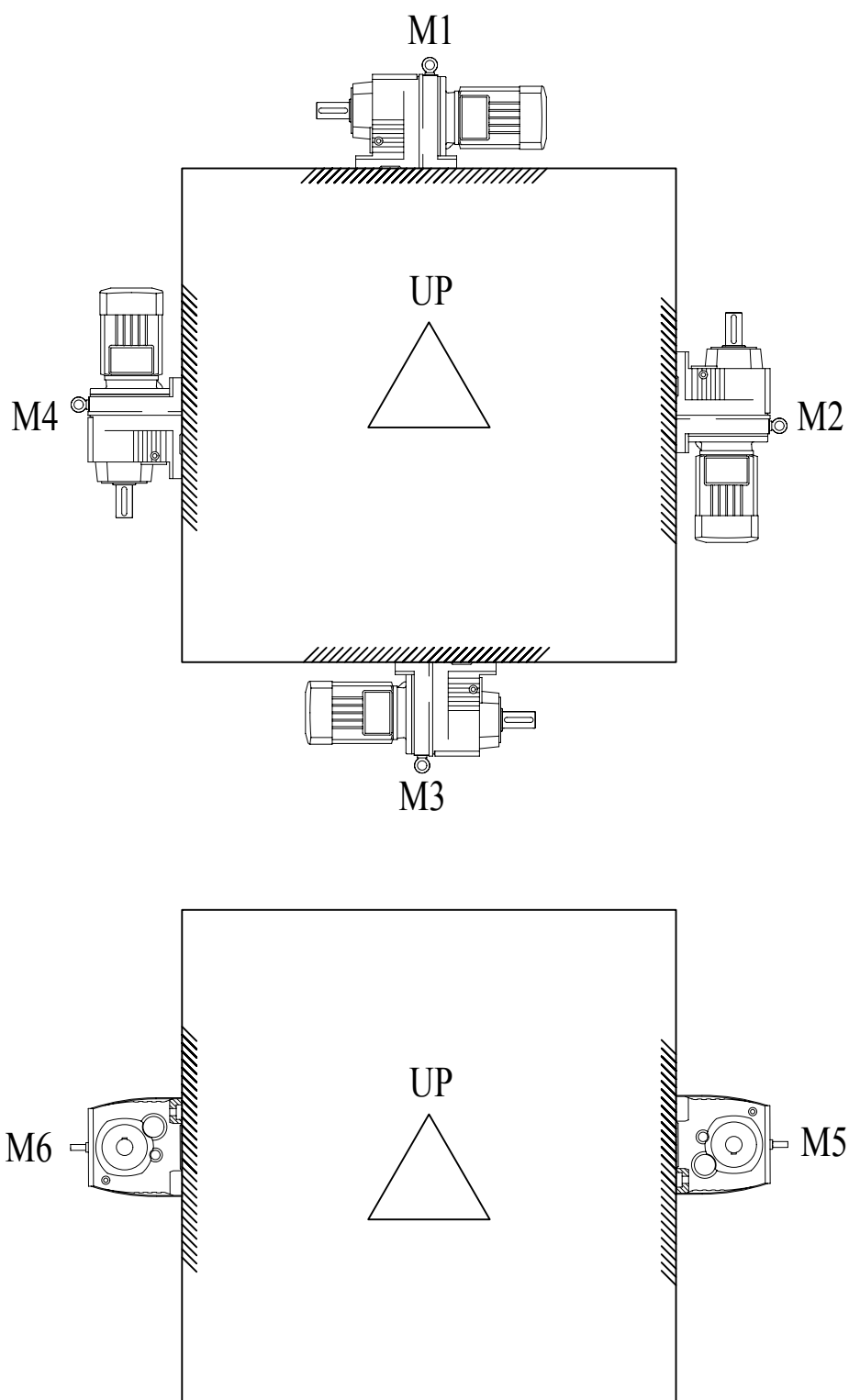


Standard Helical In-Line Gear Motor – Foot Mounted

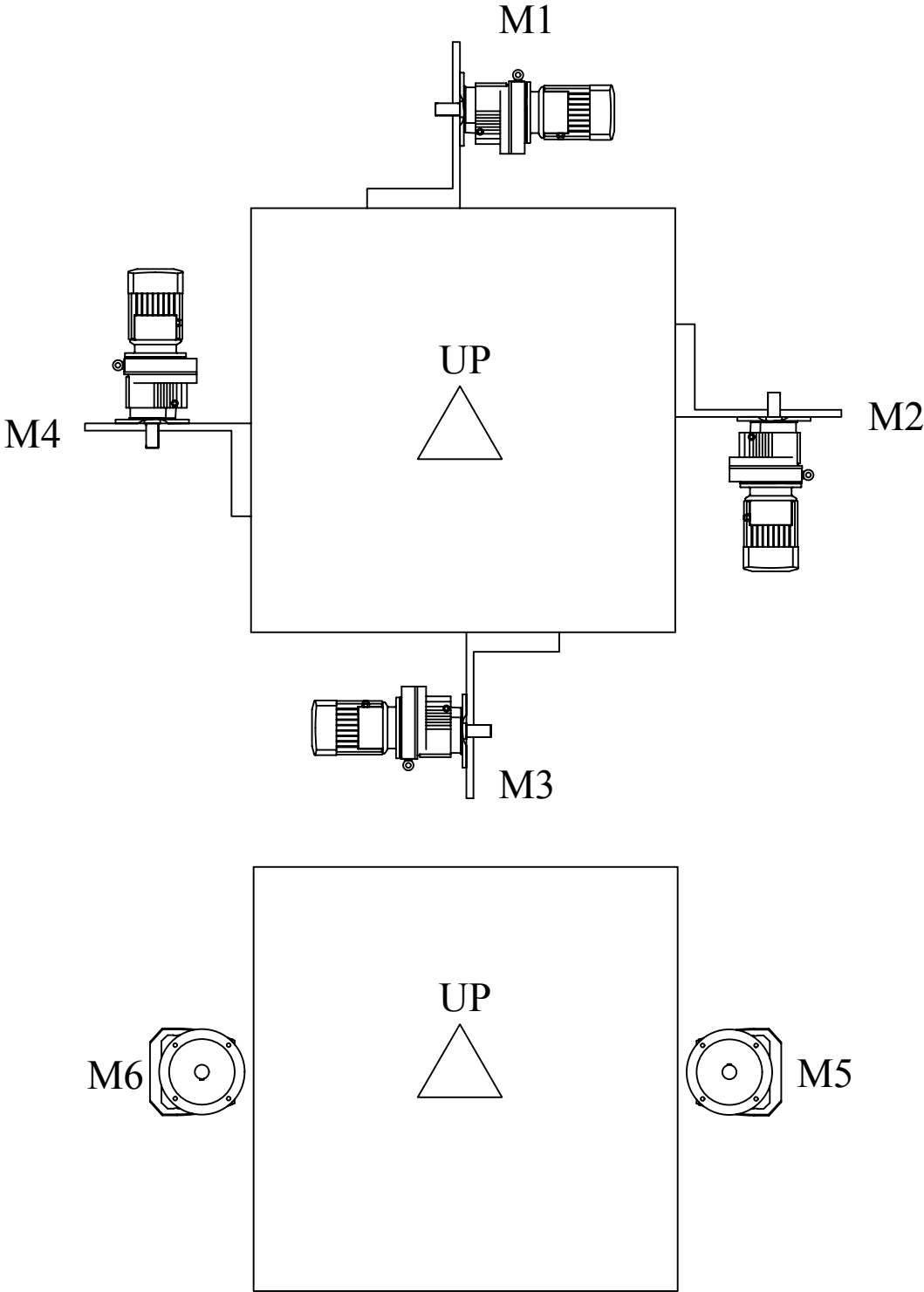


E. Mounting Position

i. Helical In-Gear Motor – Foot Mounted



ii. Helical In-Gear Motor – Flange Mounted



Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.12kW						0.12kW							
0.06	13034	21342	1.00	R	147 R77	4P	0.79	1127	1737	1.35	R	87 R57	4P
0.08	11172	18210	1.15	RF	147 R77	4P	0.91	990	1524	1.55	RF	87 R57	4P
0.09	9731	15923	1.30				1.10	794	1303	1.90			
0.10	8604	14075	1.50				1.20	696	1143	2.20			
							1.60	573	885	2.70			
0.11	7497	12344	1.70	R	147 R77	4P	1.80	505	776	3.00			
0.12	6605	11143	1.95	RF	147 R77	4P	2.00	441	685	3.40			
0.14	5919	9743	2.20				2.30	353	599	4.30			
0.16	4733	8443	2.70										
0.19	4096	7307	3.10				1.10	921	1303	0.85	R	77 R37	4P
0.21	3616	6447	3.50				1.20	784	1124	1.05	RF	77 R37	4P
0.25	3126	5568	4.10				1.30	725	1047	1.10			
							1.50	627	915	1.30			
0.11	7899	12921	1.00	R	137 R77	4P							
0.12	7115	11712	1.10	RF	137 R77	4P	1.10	804	1218	1.00	R	77 R37	4P
0.13	6262	10573	1.25				1.30	725	1084	1.10	RF	77 R37	4P
0.16	4929	8784	1.60				1.50	652	940	1.25			
0.18	4008	7479	1.95				1.70	515	821	1.55			
0.21	3979	6559	1.95				1.90	470	731	1.70			
0.24	3126	5834	2.50				2.10	451	646	1.80			
0.27	3107	5116	2.50										
0.18	4322	7583	0.95	R	107 R77	4P	2.60	372	520	2.20	R	77 R37	4P
0.20	3616	6743	1.15	RF	107 R77	4P	3.10	319	451	2.50	RF	77 R37	4P
0.23	3587	5914	1.15				3.30	294	422	2.70			
0.27	2773	5168	1.50				3.80	250	365	3.20			
0.31	2489	4435	1.70										
0.35	2225	3896	1.90				1.60	617	891	0.95	R	67 R37	4P
0.45	1842	3039	2.30				1.90	495	730	1.20	RF	67 R37	4P
							2.10	431	644	1.35			
0.35	2421	3918	1.75	R	107 R77	4P	2.40	377	571	1.55			
0.41	2068	3343	2.00	RF	107 R77	4P	2.80	314	486	1.85			
0.45	1872	3034	2.30										
0.52	1637	2653	2.60				1.70	578	836	1.00	R	67 R37	4P
0.61	1411	2280	3.00				1.80	485	750	1.20	RF	67 R37	4P
0.67	1274	2067	3.30				2.10	431	646	1.35			
							2.40	392	574	1.50			
0.30	2989	4559	1.00	R	97 R57	4P	2.80	338	495	1.75			
0.34	2519	4004	1.15	RF	97 R57	4P	3.10	279	438	2.10			
0.40	2225	3481	1.30										
0.29	3175	4678	0.95	R	97 R57	4P	1.80	539	782	0.80	R	57 R37	4P
0.32	2920	4309	1.00	RF	97 R57	4P	2.00	446	678	1.00	RF	57 R37	4P
0.37	2509	3702	1.15				2.30	407	604	1.10			
0.46	2038	3019	1.45				2.60	368	537	1.20			
0.52	1774	2668	1.65				2.90	323	471	1.35			
0.61	1450	2245	2.00				3.90	240	357	1.85			
0.68	1284	2016	2.30				4.30	211	319	2.10			
0.80	1176	1733	2.50										
0.45	2078	3065	1.40	R	97 R57	4P	3.80	255	359	1.75	R	57 R37	4P
0.51	1842	2722	1.60	RF	97 R57	4P	4.30	230	324	1.95	RF	57 R37	4P
0.61	1540	2284	1.92				4.80	201	290	2.20			
0.67	1385	2054	2.10				5.30	181	262	2.40			
0.76	1215	1823	2.40				5.60	168	246	2.60			
0.87	1049	1583	2.80				6.30	147	220	3.00			
0.99	892	1396	3.30										
1.10	760	1228	3.90				2.70	338	510	0.85	R	47 R37	4P
							3.20	279	436	1.05	RF	47 R37	4P
0.48	1735	2873	0.90	R	87 R57	4P	3.40	260	408	1.10			
0.70	1274	1961	1.20	RF	87 R57	4P	4.00	216	344	1.35			
0.53	1754	2595	0.85	R	87 R57	4P	2.80	358	502	0.80	R	47 R37	4P
0.65	1401	2129	1.10	RF	87 R57	4P	3.20	309	429	0.95	RF	47 R37	4P
0.72	1245	1930	1.20				3.70	265	372	1.10			
0.80	1098	1733	1.40				4.00	245	348	1.20			
							4.60	206	301	1.40			
							5.40	173	255	1.70			
							6.00	153	228	1.95			
							7.10	127	195	2.30			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.12kW						0.12kW							
4.10	221	338	0.90	R	37 R17	4P	6.70	163	134.82	1.15	R	37	6P
4.70	206	296	0.95	RF	37 R17	4P	7.30	149	123.66	1.25	RF	37	6P
5.30	180	259	1.10				8.60	127	105.28	1.50			
6.00	160	228	1.25				9.90	110	90.77	1.75			
6.90	137	199	1.40				11.00	103	84.61	1.85			
8.00	121	172	1.65				12.00	89	73.96	2.10			
4.20	235	328	0.85	R	37 R17	4P	10.00	106	134.82	1.80	R	37	4P
4.80	201	289	1.00	RF	37 R17	4P	11.00	98	123.66	1.95	RF	37	4P
5.20	188	265	1.05				13.00	83	105.28	2.30			
6.10	153	226	1.30				15.00	71	90.77	2.70			
6.80	141	202	1.40				16.00	67	84.61	2.80			
7.70	123	179	1.60				19.00	58	73.96	3.30			
6.00	155	229	0.80	R	27 R17	4P	7.30	150	123.91	0.80	R	27	6P
6.90	135	200	0.95	RF	27 R17	4P	8.50	127	105.49	0.95	RF	27	6P
7.80	119	177	1.05				9.90	110	90.96	1.10			
8.30	114	166	1.10				11.00	103	84.78	1.20			
6.10	154	227	0.85	R	27 R17	4P	12.00	89	74.11	1.40			
6.80	141	203	0.90	RF	27 R17	4P	10.00	106	135.09	1.15	R	27	4P
7.70	123	179	1.05				11.00	98	123.91	1.25	RF	27	4P
8.80	104	156	1.25				13.00	84	105.49	1.50			
4.60	238	195.24	3.30	R	77	6P	15.00	72	90.96	1.70			
5.40	200	166.59	3.90	RF	77	6P	16.00	67	84.78	1.85			
6.20	177	145.67	4.40				19.00	59	74.11	2.10			
4.50	242	199.81	2.40	R	67	6P	20.00	55	69.47	2.30			
4.90	223	184.07	2.60	RF	67	6P	23.00	48	61.3	2.60			
5.70	190	158.14	3.00				25.00	44	55.87	2.80			
6.50	166	137.67	3.40				29.00	38	48.17	3.30			
7.00	156	128.97	3.70				31.00	35	44.9	3.50			
7.90	138	113.94	4.10				11.00	99	81.64	0.80	R	17	6P
6.90	158	199.81	3.60	R	67	4P	13.00	86	70.39	0.95	RF	17	6P
7.50	145	184.07	3.90	RF	67	4P	14.00	80	65.61	1.00			
4.80	228	186.89	1.90	R	57	6P	16.00	69	57.35	1.15			
5.20	209	172.17	2.10	RF	57	6P	17.00	65	53.76	1.25			
6.10	179	147.92	2.40				19.00	57	47.44	1.40			
7.00	156	128.77	2.70				17.00	65	81.64	1.25	R	17	4P
7.50	146	120.63	2.90				20.00	55	70.39	1.45	RF	17	4P
8.40	129	106.58	3.30				21.00	52	65.61	1.55			
9.10	120	98.99	3.60				24.00	46	57.35	1.80			
7.40	147	186.89	2.90	R	57	4P	26.00	43	53.76	1.90			
8.00	136	172.17	3.20	RF	57	4P	29.00	37	47.44	2.20			
9.30	117	147.92	3.70				31.00	35	44.18	2.30			
11.00	102	128.77	4.20				36.00	30	38.61	2.70			
5.10	214	176.88	1.35	R	47	6P	38.00	29	36.2	2.80			
5.50	200	162.94	1.45	RF	47	6P	43.00	26	31.94	3.20			
6.40	169	139.99	1.70				49.00	23	28.32	3.60			
7.40	147	121.87	1.95				57.00	19	24.07	4.30			
7.80	140	176.88	2.00	R	47	4P	22.00	50	60.32	0.95	R	7	4P
8.50	128	162.94	2.20	RF	47	4P	25.00	43	51.52	1.10	RF	7	4P
9.90	110	139.99	2.60				27.00	40	47.78	1.20			
11.00	96	121.87	3.00				29.00	37	44.16	1.30			
12.00	90	114.17	3.20				31.00	34	41.31	1.35			
14.00	80	100.86	3.60				32.00	34	40.34	1.40			
15.00	74	93.68	3.90				34.00	32	38.51	1.45			
							38.00	29	34.05	1.65			
							45.00	25	29.08	1.95			
							48.00	23	26.97	2.10			
							56.00	20	23.32	2.40			
							60.00	18	21.73	2.60			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.12KW						0.18KW							
71	15.00	18.31	3.10	R	07	4P	0.30	4400	4435	0.95	R	107 R77	4P
78	14.00	16.73	3.40	RF	07	4P	0.34	3900	3896	1.10	RF	107 R77	4P
92	11.00	14.12	4.00				0.43	3156	3039	1.35			
108	10.00	12.06	4.70										
116	9.40	11.18	5.10				0.34	4126	3918	1.00	R	107 R77	4P
134	8.10	9.67	5.90				0.39	3518	3343	1.20	RF	107 R77	4P
144	7.50	9.01	6.30				0.44	3195	3034	1.30			
166	6.60	7.85	7.10				0.50	2793	2653	1.50			
174	6.30	7.48	6.50				0.58	2401	2280	1.75			
190	5.70	6.83	7.20				0.64	2176	2067	1.95			
226	4.80	5.76	7.80										
264	4.10	4.92	8.60				0.67	2036	1966	2.10	R	107 R77	4P
285	3.80	4.57	9.00				0.72	1833	1827	2.30	RF	107 R77	4P
329	3.30	3.95	9.70				0.83	1568	1599	2.70			
353	3.00	3.68	10.00				0.94	1411	1400	3.00			
405	2.70	3.21	11.00				1.10	1205	1226	3.50			
227	4.80	6.07	8.60	RX	67	4P	0.49	2940	2668	1.00	R	97 R57	4P
267	4.10	5.18	17.00	RXF	67	4P	0.59	2430	2245	1.20	RF	97 R57	4P
305	3.60	4.53	22.00				0.65	2166	2016	1.35			
325	3.40	4.25	22.00				0.76	1931	1733	1.50			
							0.81	1803	1623	1.65			
251	4.40	5.50	8.50	RX	57	4P	0.92	1578	1434	1.85			
272	4.00	5.07	8.60	RXF	57	4P	1.10	1303	1207	2.30			
317	3.40	4.35	19.00				1.20	1166	1084	2.50			
364	2.90	3.79	22.00				1.40	980	934	3.00			
389	2.80	3.55	24.00				1.50	921	878	3.20			
440	2.50	3.14	25.00				1.80	774	755	3.80			
474	2.30	2.91	28.00										
523	2.10	2.64	31.00				0.49	3028	2722	0.95	R	97 R57	4P
582	1.90	2.37	35.00				0.58	2533	2284	1.16	RF	97 R57	4P
676	1.60	2.04	41.00				0.65	2286	2054	1.26			
719	1.50	1.92	43.00										
835	1.30	1.65	49.00				0.89	1656	1489	0.90	R	87 R57	4P
							0.95	1548	1395	1.00	RF	87 R57	4P
0.18kw													
0.09	14700	14075	0.85	R	147 R77	4P	1.10	1352	1232	1.10			
0.11	12838	12344	1.00	RF	147 R77	4P	1.20	1254	1145	1.20			
0.12	11368	11143	1.10				1.30	1127	1037	1.35			
0.14	10094	9743	1.25				1.40	1000	931	1.50			
							1.70	843	802	1.80			
0.16	8379	8443	1.50	R	147 R77	4P	0.87	1646	1524	0.90	R	87 R57	4P
0.18	7252	7307	1.75	RF	147 R77	4P	1.00	1362	1303	1.10	RF	87 R57	4P
0.20	6399	6447	2.00				1.20	1196	1143	1.25			
0.24	5527	5568	2.30				1.50	960	885	1.60			
0.27	5047	4926	2.50				1.70	843	776	1.80			
0.31	4332	4325	2.90										
0.35	3842	3754	3.30				1.50	960	858	0.85	R	77 R37	4P
0.40	3312	3302	3.90				1.70	833	757	0.95	RF	77 R37	4P
							2.00	735	671	1.10			
0.15	8722	8784	0.90	R	137 R77	4P	2.30	617	571	1.30			
0.18	7242	7479	1.10	RF	137 R77	4P							
0.20	6811	6559	1.15				1.60	872	821	0.90	R	77 R37	4P
0.23	5655	5834	1.40				1.80	784	731	1.00	RF	77 R37	4P
0.26	5312	5116	1.50				2.00	730	646	1.10			
0.30	4430	4464	1.75				2.40	632	560	1.25			
0.34	3900	3928	2.00				2.70	539	488	1.50			
							3.00	480	436	1.70			
0.28	4959	4709	1.60	R	137 R77	4P	3.50	412	373	1.95			
0.33	4234	4018	1.85	RF	137 R77	4P	4.00	363	327	2.20			
0.38	3704	3514	2.10				4.60	323	289	2.50			
0.40	3477	3299	2.20										
0.45	3087	2929	2.50				2.30	627	571	0.95	R	67 R77	4P
							2.70	524	486	1.10	RF	67 R77	4P

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.18KW						0.18KW							
11	153	123.91	0.80	R	27	4P	143	11.00	6.07	3.60	RX	67	6P
13	130	105.49	0.95	RF	27	4P	168	9.50	5.18	7.40	RXF	67	6P
15	112	90.96	1.10				192	8.50	4.53	9.20			
16	105	84.78	1.20				204	8.00	4.25	9.50			
18	92	74.11	1.35										
19	86	69.47	1.45				218	7.50	6.07	5.40	RX	67	4P
22	76	61.30	1.65				255	6.40	5.18	11.00	RXF	67	4P
24	69	55.87	1.80				292	5.60	4.53	14.00			
27	60	48.17	2.10				311	5.30	4.25	14.00			
29	56	44.90	2.20				350	4.70	3.77	18.00			
34	48	39.25	2.50				413	4.00	3.20	24.00			
36	46	36.79	2.70				457	3.60	2.89	28.00			
41	40	32.47	3.10				519	3.10	2.54	36.00			
46	36	28.78	3.50				550	2.90	2.40	40.00			
54	30	24.47	4.10				646	2.60	2.04	50.00			
47	35	28.37	3.50	R	27	4P	158	10.00	5.50	3.60	RX	57	6P
51	32	26.09	3.80	RF	27	4P	172	9.50	5.07	3.60	RXF	57	6P
59	28	22.32	4.50				200	8.20	4.35	7.90			
68	24	19.35	5.20				230	7.10	3.79	9.20			
73	23	18.08	5.50										
84	19	15.63	6.40				240	6.80	5.50	5.40	RX	57	4P
99	16	13.28	7.50				261	6.30	5.07	5.50	RXF	57	4P
16	101	81.64	0.80	R	17	4P	303	5.40	4.35	12.00			
19	87	70.39	0.95	RF	17	4P	348	4.70	3.79	14.00			
20	81	65.61	1.00				372	4.40	3.55	15.00			
23	71	57.35	1.15				421	3.90	3.14	16.00			
25	67	53.76	1.20				453	3.60	2.91	18.00			
28	59	47.44	1.40				500	3.20	2.64	20.00			
30	55	44.18	1.50				557	2.90	2.37	22.00			
34	48	38.61	1.70				647	2.60	2.04	26.00			
36	45	36.20	1.80				688	2.40	1.92	28.00			
41	40	31.94	2.00				799	2.10	1.65	31.00			
47	35	28.32	2.30				0.25KW						
55	29	24.07	2.70				0.13	14896	9743	0.85	R	147 R77	4P
52	31	25.23	2.60	R	17	4P	0.15	12544	8443	1.00	RF	147 R77	4P
57	29	23.15	2.80	RF	17	4P	0.18	10780	7307	1.20			
67	25	19.71	3.30				0.20	9545	6447	1.35			
78	21	16.99	3.90				0.23	8242	5568	1.55			
							0.26	7448	4926	1.70			
							0.30	6439	4325	2.00			
28	59	47.78	0.80	R	07	4P	0.35	5674	3754	2.30			
30	55	44.16	0.85	RF	07	4P	0.39	4920	3302	2.60			
32	51	41.31	0.95				0.45	4292	2898	3.00			
33	50	40.34	0.95										
34	48	38.51	1.00				0.22	8497	5834	0.90	R	137 R77	4P
39	42	34.05	1.15				0.25	7811	5116	1.00	RF	137 R77	4P
45	36	29.08	1.30				0.29	6605	4464	1.20			
49	33	26.97	1.40				0.33	5811	3928	1.35			
57	29	23.32	1.65										
61	27	21.73	1.75				0.28	7281	4709	1.10	R	137 R77	4P
							0.32	6213	4018	1.25	RF	137 R77	4P
72	23.00	18.31	2.10	R	07	4P	0.37	5439	3514	1.45			
79	21.00	16.73	2.30	RF	07	4P	0.39	5104	3299	1.52			
94	17.00	14.12	2.70				0.44	4528	2929	1.75			
109	15.00	12.06	3.20										
118	14.00	11.18	3.40				0.49	4106	2658	1.90	R	137 R77	4P
137	12.00	9.67	4.00				0.54	3724	2412	2.10	RF	137 R77	4P
146	11.00	9.01	4.30				0.63	3205	2073	2.50			
168	9.50	7.85	4.80				0.71	2754	1839	2.80			
177	9.20	7.48	4.40				0.94	2115	1383	3.70			
193	8.50	6.83	4.80				1.10	1852	1226	4.20			
229	7.10	5.76	5.30										
268	6.10	4.92	5.80				0.43	4635	3039	0.90	R	107 R77	4P
289	5.60	4.57	6.10								RF	107 R77	4P
334	4.80	3.95	6.70										
359	4.60	3.68	6.90										
412	4.00	3.21	7.40										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.25KW						0.25KW							
0.43	4694	3034	0.90	R	107 R77	4P	4.10	510	319	0.85	R	57 R37	4P
				RF	107 R77	4P	4.80	431	273	1.05	RF	57 R37	4P
							5.40	372	241	1.20			
0.66	3006	1966	1.41	R	107 R77	4P	6.00	333	215	1.30			
0.71	2734	1827	1.55	RF	107 R77	4P	7.00	294	187	1.50			
0.81	2362	1599	1.80				7.90	255	164	1.75			
0.93	2097	1400	2.00				9.20	221	142	2.00			
1.10	1803	1226	2.30										
1.40	1411	939	3.00				4.00	534	324	0.85	R	57 R37	4P
1.60	1215	822	3.50				4.50	475	290	0.95	RF	57 R37	4P
							5.00	426	262	1.05			
0.75	2783	1733	1.05	R	97 R57	4P	5.30	397	246	1.10			
0.80	2607	1623	1.15	RF	97 R57	4P	5.90	353	220	1.25			
0.71	2901	1823	1.00	R	97 R57	4P	5.70	368	228	0.80	R	47 R37	4P
0.82	2519	1583	1.15	RF	97 R57	4P	6.70	309	195	0.95	RF	47 R37	4P
0.93	2185	1396	1.35				7.10	289	182	1.00			
1.10	1901	1228	1.55				8.50	240	154	1.20			
1.20	1696	1057	1.72										
1.40	1499	938	1.95				8.70	245	150	0.80	R	37 R17	4P
1.60	1274	824	2.30				10.00	206	130	0.95	RF	37 R17	4P
1.80	1137	737	2.60				10.00	196	124	1.00			
2.10	980	632	3.00				12.00	174	110	1.10			
							14.00	149	94	1.30			
1.10	1813	1145	0.85	R	87 R57	4P	9.70	216	135	0.90	R	37 R17	4P
1.20	1637	1037	0.95	RF	87 R57	4P	10.00	211	127	0.95	RF	37 R17	4P
1.40	1460	931	1.05				13.00	171	104	1.15			
1.60	1245	802	1.20				14.00	147	90	1.35			
1.10	1764	1143	0.85	R	87 R57	4P	2.40	969	289.74	3.00	R	97	4P
1.50	1392	885	1.10	RF	87 R57	4P	2.70	855	255.71	3.30	RF	97	4P
1.70	1225	776	1.25				2.80	808	241.25	3.50			
1.90	1078	685	1.40				3.10	722	216.28	4.00			
2.20	911	599	1.65										
2.50	804	525	1.90				2.80	827	246.54	1.80	R	87	8P
2.90	701	456	2.20				3.10	722	216.54	2.00	RF	87	8P
4.90	407	268	3.70				3.30	678	203.79	2.20			
							3.70	608	181.77	2.40			
2.30	902	571	0.90	R	77 R37	4P							
				RF	77 R37	4P	4.10	556	166.59	1.40	R	77	8P
2.30	911	560	0.90	R	77 R37	4P	4.70	485	145.67	1.60	RF	77	8P
2.70	779	488	1.05	RF	77 R37	4P	5.00	455	136.78	1.72			
3.00	691	436	1.15				5.60	404	121.42	1.90			
3.50	598	373	1.35										
4.00	524	327	1.55				4.50	504	195.24	1.55	R	77	6P
4.50	466	289	1.75				5.30	428	166.59	1.80	RF	77	6P
5.00	417	260	1.95				6.00	375	145.67	2.10			
5.80	348	224	2.30										
							6.70	342	195.24	2.30	R	77	4P
3.40	608	388	0.95	R	67 R37	4P	7.80	290	166.59	2.70	RF	77	4P
3.80	554	344	1.05	RF	67 R37	4P	8.90	257	145.67	3.10			
4.40	456	294	1.30				9.50	239	136.78	3.20			
5.00	417	261	1.40				11.00	214	121.42	3.70			
5.50	372	234	1.60										
6.50	314	200	1.85				4.30	527	158.14	1.10	R	67	8P
7.40	274	176	2.20				4.90	461	137.67	1.25	RF	67	8P
8.20	245	158	2.40				5.30	432	128.97	1.35			
							6.00	380	113.94	1.50			
3.40	632	384	0.95	R	67 R37	4P							
3.60	588	359	1.00	RF	67 R37	4P	4.40	513	199.81	1.10	R	67	6P
4.20	505	310	1.15				4.80	475	184.07	1.20	RF	67	6P
4.90	426	264	1.40				5.60	409	158.14	1.40			
5.50	377	235	1.55				6.40	356	137.67	1.60			
6.50	319	201	1.85				5.80	333	128.97	1.70			
7.20	289	181	2.00				7.70	295	113.94	1.95			
							8.30	271	105.83	2.10			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.25kw						0.25KW							
6.50	347	199.81	1.65	R	67	4P	46	49.00	28.37	2.50	R	27	4P
7.10	323	184.07	1.80	RF	67	4P	50	46.00	26.09	2.70	RF	27	4P
8.20	276	158.14	2.10				58	39.00	22.32	3.20			
9.40	242	137.67	2.40				67	34.00	19.35	3.70			
10.00	223	128.97	2.50				72	31.00	18.08	3.90			
11.00	200	113.94	2.90				83	28.00	15.63	4.50			
12.00	184	105.83	3.10				98	23.00	13.28	5.30			
14.00	167	95.91	3.40				110	21.00	11.86	5.90			
15.00	150	86.11	3.80				128	18.00	10.13	6.60			
							138	16.00	9.41	7.10			
4.70	480	186.89	0.90	R	57	6P	159	14.00	8.16	7.70			
5.10	442	172.17	0.95	RF	57	6P	170	13.00	7.63	8.00			
6.00	380	147.92	1.10				197	11.00	6.59	8.80			
6.80	333	128.77	1.30				232	9.50	5.60	9.60			
7.30	309	120.63	1.35				260	8.70	5.00	10.00			
8.30	276	106.58	1.55				304	7.40	4.27	11.00			
8.90	257	98.99	1.70				325	6.90	4.00	12.00			
							386	5.90	3.37	13.00			
7.00	328	186.89	1.30	R	57	4P							
7.50	299	172.17	1.40	RF	57	4P	23	100	57.35	0.80	R	17	4P
8.80	257	147.92	1.65				24	94	53.76	0.85	RF	17	4P
10.00	223	128.77	1.90				27	83	47.44	1.00			
11.00	209	120.63	2.00				29	77	44.18	1.05			
12.00	186	106.58	2.30				34	67	38.61	1.20			
13.00	173	98.99	2.50				36	64	36.20	1.30			
14.00	157	89.71	2.70				41	56	31.94	1.45			
16.00	141	80.55	3.00				46	49	29.32	1.65			
19.00	121	69.23	3.50				54	42	24.07	1.90			
7.40	309	176.88	0.90	R	47	4P	52	44	25.23	1.85	R	17	4P
8.00	285	162.94	1.00	RF	47	4P	56	41	23.15	2.00	RF	17	4P
9.30	242	139.99	1.15				66	34	19.71	2.40			
11.00	214	121.87	1.35				77	29	16.99	2.70			
11.00	200	114.17	1.45				82	28	15.84	2.90			
13.00	176	100.86	1.60				94	24	13.84	3.40			
14.00	163	93.68	1.75				100	23	12.98	3.60			
15.00	148	84.90	1.90				114	20	11.45	3.90			
17.00	133	76.23	2.10										
19.00	120	68.54	2.40				38	60	34.05	0.80	R	17	4P
20.00	112	64.21	2.50				45	50	29.08	0.95	RF	17	4P
23.00	99	56.73	2.90				48	48	26.97	1.00			
25.00	92	52.69	3.10				56	41	23.32	1.15			
27.00	84	47.75	3.40				60	38	21.73	1.25			
9.60	238	134.82	0.80	R	37	4P	71	32.00	18.31	1.50	R	07	4P
11.00	214	123.66	0.90	RF	37	4P	78	29.00	16.73	1.65	RF	07	4P
12.00	183	105.28	1.05				92	25.00	14.12	1.95			
14.00	159	90.77	1.20				108	21.00	12.06	2.30			
15.00	147	84.61	1.30				116	20.00	11.18	2.40			
18.00	129	73.96	1.45				134	17.00	9.67	2.80			
19.00	121	69.33	1.55				144	16.00	9.01	3.00			
21.00	106	61.18	1.80				166	13.00	7.85	3.40			
23.00	97	55.76	1.95				174	13.00	7.48	3.10			
27.00	84	48.08	2.30				190	12.00	6.83	3.40			
29.00	78	44.81	2.40				226	10.00	5.76	3.80			
33.00	68	39.17	2.80				264	8.60	4.92	4.10			
35.00	64	36.72	3.00				285	8.00	4.57	4.30			
40.00	57	32.4	3.40				329	6.90	3.95	4.70			
							353	6.50	3.68	4.90			
15.00	148	84.78	0.85	R	27	4P	405	5.60	3.21	5.30			
18.00	129	74.11	0.95	RF	27	4P							
19.00	122	69.47	1.00				145	16	6.07	2.60	RX	67	6P
21.00	107	61.30	1.15				170	13	5.18	5.40	RXF	67	6P
23.00	98	55.87	1.25				194	11	4.53	6.70			
27.00	85	48.17	1.45				207	11	4.25	6.90			
29.00	79	44.90	1.60										
33.00	68	39.25	1.80										
35.00	65	36.79	1.90										
40.00	57	32.47	2.20										
45.00	50	28.78	2.50										
53.00	43	24.47	2.90										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.25KW						0.37KW							
214	10.00	6.07	3.90	R	67	4P	0.70	4315	1966	0.96	R	107 R77	4P
251	9.00	5.18	7.90	RF	67	4P	0.76	3949	1827	1.05	RF	107 R77	4P
287	7.90	4.53	9.90				0.86	3420	1599	1.25			
306	7.40	4.25	10.00				0.99	3028	1400	1.40			
345	6.60	3.77	13.00				1.10	2617	1226	1.60			
406	5.60	3.20	17.00				1.50	2029	939	2.10			
450	5.00	2.89	20.00				1.70	1754	822	2.40			
511	4.50	2.54	25.00										
542	4.20	2.40	28.00				1.10	2705	1207	1.10	R	97 R57	4P
636	3.60	2.04	35.00				1.30	2421	1084	1.20	RF	97 R57	4P
160	14.00	5.50	2.60	R	57	4P	0.99	3116	1396	0.95	R	97 R57	4P
174	13.00	5.07	2.60	RF	57	4P	1.10	2724	1228	1.10	RF	97 R57	4P
202	11.00	4.35	5.80				1.30	2403	1057	1.21			
232	9.50	3.79	6.70				1.50	2117	938	1.40			
							1.70	1823	824	1.60			
236	9.50	5.50	3.90	R	57	4P	1.90	1637	737	1.80			
257	8.80	5.07	3.90	RF	57	4P	2.20	1401	632	2.10			
299	7.60	4.35	8.50				3.20	960	431	3.10			
343	6.70	3.79	9.90				3.60	843	379	3.50			
366	6.20	3.55	11.00				4.10	750	336	3.90			
414	5.50	3.14	11.00										
446	5.00	2.91	13.00				1.70	1774	802	0.85	R	87 R57	4P
492	4.60	2.64	14.00				1.80	1666	754	0.90	RF	87 R57	4P
548	4.20	2.37	16.00				2.10	1421	649	1.05			
637	3.50	2.04	19.00										
677	3.30	1.92	20.00				1.80	1774	776	0.85	R	87 R57	4P
787	2.90	1.65	23.00				2.00	1539	685	1.00	RF	87 R57	4P
							2.30	1313	599	1.15			
							2.60	1147	525	1.30			
0.37KW						0.37KW							
0.19	15582	7307	0.80	R	147 R77	4P	3.00	1009	456	1.50			
0.21	13818	6447	0.90	RF	147 R77	4P	5.20	583	268	2.60			
0.25	11858	5568	1.05				5.90	515	236	2.90			
0.28	10682	4926	1.20										
0.32	9290	4325	1.35				2.60	1219	531	1.27	R	87 R57	4P
0.37	8144	3754	1.55				2.90	1078	472	1.40	RF	87 R57	4P
0.42	7095	3302	1.80				3.50	911	400	1.65			
0.48	6194	2898	2.10				3.80	813	361	1.85			
0.31	9545	4464	0.80	R	137 R77	4P	3.70	843	373	0.95	R	77 R37	4P
0.35	8399	3928	0.95	RF	137 R77	4P	4.20	740	327	1.10	RF	77 R37	4P
							4.80	657	289	1.20			
0.34	8898	4018	0.90	R	137 R77	4P	5.30	588	260	1.35			
0.39	7781	3514	1.00	RF	137 R77	4P	6.20	500	224	1.60			
0.41	7303	3299	1.06				7.00	436	197	1.85			
0.47	6488	2929	1.20				8.20	382	169	2.10			
0.56	5488	2484	1.45				9.30	333	149	2.40			
0.62	4929	2242	1.60										
							4.70	652	294	0.90	R	67 R57	4P
0.52	5880	2658	1.35	R	137 R77	4P	5.30	588	261	1.00	RF	67 R57	4P
0.57	5331	2412	1.45	RF	137 R77	4P	5.90	529	234	1.10			
0.67	4586	2073	1.70				6.90	451	200	1.30			
0.75	3979	1839	1.95										
1.00	3037	1383	2.60				2.70	1264	255.71	2.30	R	97	8P
1.10	2666	1226	2.90				2.80	1188	241.25	2.40	RF	97	8P
1.30	2367	1079	3.30				3.10	1064	216.28	2.70			
1.40	2068	942	3.80				3.60	922	186.30	3.10			
0.67	4567	2067	0.90	R	107 R77	4P	3.10	1083	289.74	2.60	R	97	6P
0.82	3714	1693	1.15	RF	107 R77	4P	3.50	950	255.71	3.00	RF	97	6P
0.89	3352	1550	1.25				3.70	903	241.25	3.20			
0.98	3048	1407	1.40				4.20	808	216.28	3.50			
1.10	2617	1209	1.60										
1.30	2283	1055	1.85				3.10	1074	216.54	1.40	R	87	8P
							3.30	1007	203.79	1.46	RF	87	8P
							3.70	893	181.77	1.65			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.37KW						0.37KW							
3.60	922	246.54	1.60	R	87	6P	9.90	342	139.99	0.85	R	47	4P
4.20	808	216.54	1.80	RF	87	6P	11	295	121.87	0.95	RF	47	4P
4.40	762	203.79	1.92				12	276	114.17	1.05			
5.00	679	181.77	2.20				14	247	100.86	1.15			
5.80	580	155.34	2.50				15	228	93.68	1.25			
6.40	527	140.99	2.80				16	204	84.90	1.40			
							18	185	76.23	1.55			
4.70	717	145.67	1.10	R	77	8P	20	167	68.54	1.70			
5.00	676	136.78	1.16	RF	77	8P	21	156	64.21	1.80			
5.60	599	121.42	1.30				24	138	56.73	2.10			
							26	128	52.69	2.20			
5.40	622	166.59	1.25	R	77	6P	29	116	47.75	2.50			
6.20	542	145.67	1.45	RF	77	6P	32	105	42.87	2.70			
6.60	512	136.78	1.52				37	90	36.93	3.20			
							40	85	34.73	3.40			
7.10	475	195.24	1.65	R	77	4P							
8.30	404	166.59	1.90	RF	77	4P	41	83	33.79	2.80	R	47	4P
9.50	356	145.67	2.20				44	76	31.12	2.80	RF	47	4P
10.00	333	136.78	2.30				52	66	26.74	4.40			
11.00	295	121.42	2.60				59	57	23.28	5.00			
13.00	252	102.99	3.10				63	53	21.81	5.40			
15.00	228	92.97	3.50										
5.70	589	158.14	0.95	R	67	6P	15	219	90.77	0.85	R	37	4P
6.50	513	137.67	1.10	RF	67	6P	16	204	84.61	0.90	RF	37	4P
7.00	480	128.97	1.20				19	180	73.96	1.05			
7.90	423	113.94	1.35										
6.90	485	199.81	1.15	R	67	4P	20	169	69.33	1.15	R	37	4P
7.50	447	184.07	1.25	RF	67	4P	23	149	61.18	1.30	RF	37	4P
8.70	385	158.14	1.50				25	136	55.76	1.40			
10	337	137.67	1.70				29	117	48.08	1.60			
11	314	128.97	1.80				31	109	44.81	1.75			
12	276	113.94	2.10				35	95	39.17	2.00			
13	257	105.83	2.20				38	89	36.72	2.10			
14	233	95.91	2.40				43	79	32.40	2.40			
16	209	86.11	2.70				48	70	28.73	2.70			
19	181	74.17	3.20				57	60	24.42	3.20			
20	170	69.75	3.40										
23	149	61.26	3.80				49	69	28.32	2.80	R	37	4P
24	139	56.89	4.10				53	64	26.03	2.80	RF	37	4P
							62	54	22.27	3.50			
7.00	480	128.77	0.90	R	57	6P	71	47	19.31	4.10			
7.50	451	120.63	0.95	RF	57	6P	76	44	18.05	4.30			
8.40	399	106.58	1.10										
9.10	371	98.99	1.15				88	38	15.60	5.00	R	37	4P
							104	32	13.25	5.60	RF	37	4P
							117	29	11.83	6.00			
7.40	456	186.89	0.95	R	57	4P							
8.00	418	172.17	1.00	RF	57	4P	23	149	61.30	0.85	R	27	4P
9.30	361	147.92	1.20				25	136	55.87	0.90	RF	27	4P
11.00	314	128.77	1.35				29	117	48.17	1.05			
11.00	295	120.63	1.45				31	109	44.90	1.15			
13.00	261	106.58	1.65				35	96	39.25	1.30			
14.00	242	98.99	1.80				38	89	36.79	1.40			
15.00	219	89.71	1.95				43	79	32.47	1.55			
17.00	195	80.55	2.20				48	70	28.78	1.75			
20.00	168	69.23	2.50				56	60	24.47	2.10			
21.00	158	64.85	2.70										
24.00	140	57.29	3.10				49	69	28.37	1.80	R	27	4P
26.00	129	53.22	3.30				53	64	26.09	1.95	RF	27	4P
29.00	118	48.23	3.60				62	54	22.32	2.30			
							71	48	19.35	2.60			
							76	44	18.08	2.80			
							88	38	15.63	3.30			
							104	32	13.28	3.80			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.37KW						0.37KW							
36	94	38.61	0.85	R	17	4P	251	13.00	5.50	2.80	R	57	4P
38	88	36.20	0.90	RF	17	4P	272	12.00	5.07	2.80	RF	57	4P
43	78	31.94	1.05				317	10.00	4.35	6.10			
49	69	28.32	1.15				364	9.20	3.79	7.10			
57	59	24.07	1.40				389	8.60	3.55	7.60			
							440	7.60	3.14	8.10			
55	62.00	25.23	1.30	R	17	4P	474	7.10	2.91	8.90			
60	56.00	23.15	1.45	RF	17	4P	523	6.50	2.64	10.00			
70	48.00	19.71	1.70				582	5.80	2.37	11.00			
81	42.00	16.99	1.95				676	4.90	2.04	13.00			
87	39.00	15.84	2.10				719	4.70	1.92	14.00			
100	33.00	13.84	2.40				835	4.00	1.65	16.00			
106	31.00	12.98	2.60				0.55KW						
121	28.00	11.45	2.80				0.22	19404	6077	0.90	R	167 R97	4P
136	25.00	10.15	3.00				0.25	17248	5407	1.00	RF	167 R97	4P
160	21.00	8.63	3.30				0.29	14700	4650	1.20			
183	18.00	7.55	2.90				0.33	12838	4129	1.35			
196	17.00	7.04	3.10										
224	15.00	6.15	3.40				0.28	16562	4926	0.75	R	147 R77	4P
239	14.00	5.76	3.60				0.31	14406	4325	0.90	RF	147 R77	4P
271	12.00	5.09	3.90				0.36	12642	3754	1.00			
306	11.00	4.51	4.20				0.41	10976	3302	1.15			
360	9.30	3.83	4.60				0.47	9633	2898	1.30			
75	45.00	18.31	1.05	R	07	4P	0.53	8712	2555	1.45	R	147 R77	4P
83	41.00	16.73	1.15	RF	07	4P	0.62	7546	2211	1.70	RF	147 R77	4P
98	34.00	14.12	1.40				0.70	6654	1951	1.90			
114	29.00	12.06	1.60				0.80	5694	1705	2.20			
123	28.00	11.18	1.75				0.89	5106	1536	2.50			
143	24.00	9.67	2.00				1.00	4420	1329	2.90			
153	22.00	9.01	2.20				1.20	3842	1166	3.30			
176	19.00	7.85	2.40										
185	18.00	7.48	2.30										
202	17.00	6.83	2.50				0.55	8477	2484	0.90	R	137 R77	4P
239	14.00	5.76	2.70								RF	137 R77	4P
280	12.00	4.92	2.90										
302	11.00	4.57	3.10				0.51	9065	2658	0.85	R	137 R77	4P
350	9.50	3.95	3.40				0.56	8232	2412	0.95	RF	137 R77	4P
375	8.90	3.68	3.50				0.66	7076	2073	1.10			
430	7.80	3.21	3.80				0.74	6194	1839	1.25			
							0.85	5312	1598	1.50			
174	19	5.18	3.70	R	67	6P	0.98	4696	1383	1.67			
199	17	4.53	4.60	RF	67	6P	1.10	4136	1226	1.90			
211	16	4.25	4.80				1.20	3667	1079	2.10			
239	14	3.77	5.90				1.40	3203	942	2.40			
							1.60	2764	831	2.80			
227	15.00	6.07	2.80	R	67	4P							
267	12.00	5.18	5.60	RF	67	4P	0.97	4733	1407	0.90	R	107 R77	4P
305	11.00	4.53	7.10				1.10	4067	1209	1.05	RF	107 R77	4P
325	10.00	4.25	7.40				1.30	3548	1055	1.20			
366	9.20	3.77	9.00				1.50	3107	919	1.35			
431	7.80	3.20	12.00				1.70	2773	815	1.50			
478	7.00	2.89	14.00				1.90	2421	717	1.75			
543	6.20	2.54	18.00				2.20	2117	626	2.00			
575	5.80	2.40	20.00										
675	4.90	2.04	26.00				0.97	4714	1400	0.90	R	107 R77	4P
							1.10	4096	1226	1.05	RF	107 R77	4P
207	16	4.35	4.00	R	57	6P	1.20	3665	1104	1.15			
238	14	3.79	4.60	RF	57	6P	1.40	3156	939	1.35			
254	13	3.55	5.00				1.70	2744	822	1.55			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.55KW						0.55KW							
1.7	2813	824	1.05	R	97 R57	4P	8.6	580	158.14	1	R	67	4P
1.8	2519	737	1.15	RF	97 R57	4P	9.9	504	137.67	1.15	RF	67	4P
2.1	2156	632	1.35				11	475	128.97	1.2			
2.4	1882	560	1.55				12	418	113.94	1.35			
2.8	1637	484	1.8				13	390	105.83	1.45			
3.1	1480	431	2				14	352	95.91	1.6			
3.6	1294	379	2.3				16	318	86.11	1.8			
4	1156	336	2.6				18	271	74.17	2.1			
4.6	1009	296	2.9				20	257	69.75	2.2			
5.5	843	249	3.5				22	223	61.26	2.5			
							24	209	56.89	2.7			
2.6	1784	525	0.85	R	87 R57	4P							
3	1548	456	1	RF	87 R57	4P	11	442	120.63	0.95	R	57	4P
3.4	1343	398	1.15				13	390	106.58	1.1	RF	57	4P
3.9	1186	352	1.3				14	361	98.99	1.2			
4.5	1019	305	1.5				15	328	89.71	1.3			
							17	295	80.55	1.45			
2.9	1656	472	0.9	R	87 R57	4P	20	252	69.23	1.7			
3.4	1392	400	1.1	RF	87 R57	4P	21	238	64.85	1.8			
3.8	1254	361	1.2				24	209	57.29	2			
							26	195	53.22	2.2			
4.9	970	276	0.85	R	77 R37	4P	28	177	48.23	2.4			
5.8	823	236	1	RF	77 R37	4P	31	159	43.3	2.7			
6.2	769	221	1.05				36	137	37.3	3.1			
7.3	647	186	1.25				39	129	35.07	3.3			
2.7	1881	255.71	1.5	R	97	8P	52	97	26.31	4.4	R	57	4P
2.8	1767	241.25	1.6	RF	97	8P	55	91	24.7	4.8	RF	57	4P
3.1	1587	216.28	1.8				62	81	21.93	5.3			
							73	68	18.8	6.3			
3.1	1606	289.74	1.75	R	97	6P							
3.5	1416	255.71	2	RF	97	6P	15	342	93.68	0.85	R	47	4P
3.7	1340	241.25	2.1				16	314	84.9	0.9	RF	47	4P
4.2	1197	216.28	2.4				18	280	76.23	1			
							20	252	68.54	1.15			
4.7	1064	289.74	2.7	R	97	4P	21	238	64.21	1.2			
5.3	941	255.71	3	RF	97	4P	24	209	56.73	1.35			
5.6	884	241.25	3.2				26	195	52.69	1.45			
6.3	798	216.28	3.6				28	175	47.75	1.65			
							32	158	42.87	1.8			
3.6	1368	246.54	1.1	R	87	6P	37	136	36.93	2.1			
4.2	1197	216.54	1.25	RF	87	6P	39	127	34.73	2.2			
4.4	1129	203.79	1.31				46	109	29.88	2.6			
5	1007	181.77	1.45										
5.8	865	155.34	1.7				51	98	26.74	2.9	R	47	4P
							58	86	23.28	3.3	RF	47	4P
5.5	903	246.54	1.65	R	87	4P	62	80	21.81	3.6			
6.3	798	216.54	1.85	RF	87	4P							
6.7	748	203.79	1.97				22	223	61.18	0.85	R	37	4P
7.5	665	181.77	2.2				24	204	55.76	0.95	RF	37	4P
8.8	570	155.34	2.6				28	177	48.08	1.1			
9.7	517	140.99	2.8				30	164	44.81	1.15			
11	461	124.97	3.2				35	143	39.17	1.3			
11	432	118.43	3.4				37	135	36.72	1.4			
13	380	103.65	3.9				42	119	32.4	1.6			
							47	105	28.73	1.8			
8.2	613	166.59	1.25	R	77	4P	56	89	24.42	2.1			
9.3	537	145.67	1.45	RF	77	4P							
9.9	502	136.78	1.57				61	82	22.27	2.3	R	37	4P
11	447	121.42	1.75				70	71	19.31	2.7	RF	37	4P
13	380	102.99	2.1				75	67	18.05	2.9			
15	342	92.97	2.3				87	57	15.6	3.3			
17	299	81.8	2.6				103	48	13.25	3.7			
18	285	77.24	2.8				115	44	11.83	4			
21	242	65.77	3.2										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.55KW						0.55KW							
35	144	39.25	0.85	R	27	4P	312	16.00	4.35	4.10	RX	57	4P
37	135	36.79	0.90	RF	27	4P	359	14.00	3.79	4.70	RXF	57	4P
42	119	32.47	1.05				383	13.00	3.55	5.00			
47	105	28.78	1.15				434	11.00	3.14	5.40			
56	90	24.47	1.40				467	10.00	2.91	6.00			
							515	9.50	2.64	6.80			
61	82	22.32	1.50	R	27	4P	574	8.70	2.37	7.50			
70	71	19.35	1.75	RF	27	4P	666	7.50	2.04	8.70			
75	67	18.08	1.85				708	7.00	1.92	9.30			
87	57	15.63	2.20				823	6.10	1.65	11.00			
102	48	13.28	2.50				921	5.40	1.48	12.00			
115	44	11.86	2.80				1078	4.60	1.26	13.00			
134	37	10.13	3.10				0.75KW						
145	34	9.41	3.40				0.30	20286	4650	0.85	R	167 R97	4P
167	30	8.16	3.70				0.33	17838	4129	1.00	RF	167 R97	4P
178	28	7.63	3.80				0.52	11858	2657	1.50	R	167 R97	4P
206	25	6.59	4.20				0.59	10290	2333	1.70	RF	167 R97	4P
243	21	5.60	4.60				0.66	9114	2085	1.95			
272	18	5.00	4.90				0.96	6419	1438	2.80			
318	16	4.27	5.30										
340	14	4.00	5.50				0.42	14994	3302	0.85	R	147 R77	4P
404	12	3.37	6.10				0.48	13132	2898	0.95	RF	147 R77	4P
							0.54	11858	2555	1.10	R	147 R77	4P
69	72	19.71	1.10	R	17	4P	0.62	10290	2211	1.25	RF	147 R77	4P
80	63	16.99	1.30	RF	17	4P	0.71	9045	1951	1.40			
86	58	15.84	1.40				0.81	7781	1705	1.65			
98	51	13.84	1.60				0.90	6987	1536	1.80			
105	48	12.98	1.70				1.00	6047	1329	2.10			
119	42	11.45	1.85				1.20	5272	1166	2.40			
134	37	10.15	1.95				0.74	8555	1863	0.90	R	137 R77	4P
158	31	8.63	2.20				0.87	7242	1586	1.10	RF	137 R77	4P
180	28	7.55	1.90				0.99	6448	1391	1.20			
193	26	7.04	2.00				1.10	5802	1256	1.35			
221	23	6.15	2.30				0.67	9614	2073	0.80	R	137 R77	4P
236	21	5.76	2.40				0.75	8438	1839	0.95	RF	137 R77	4P
267	19	5.09	2.60				0.86	7262	1598	1.10			
302	16	4.51	2.80				1.00	6393	1383	1.21			
355	14	3.83	3.00				1.10	5635	1226	1.40			
							1.30	4986	1079	1.57			
174	29	5.18	2.50	RX	67	6P	1.40	4359	942	1.82			
199	25	4.53	3.10	RXF	67	6P	1.70	3783	831	2.10			
211	23	4.25	3.20				1.90	3293	730	2.40			
239	21	3.77	4.00										
							1.30	4841	1055	0.85	R	107 R77	4P
263	19.00	5.18	3.80	RX	67	4P	1.50	4224	919	1.00	RF	107 R77	4P
300	17.00	4.53	4.70	RXF	67	4P	1.70	3783	831	2.10			
320	16.00	4.25	4.90				1.90	3293	730	2.40			
360	14.00	3.77	6.00										
425	11.00	3.20	8.10				1.30	4841	1055	0.85	R	107 R77	4P
471	10.00	2.89	9.50				1.50	4224	919	1.00	RF	107 R77	4P
535	9.30	2.54	12.00				1.70	3763	815	1.10			
567	8.80	2.40	13.00										
666	7.50	2.04	17.00				1.50	4312	939	1.00	R	107 R77	4P
732	6.80	1.86	18.00				1.70	3753	822	1.10	RF	107 R77	4P
845	5.90	1.61	18.00				3.70	1676	369	2.50			
							4.30	1460	323	2.90			
207	24	4.35	2.70	RX	67	4P	2.20	2930	632	1.00	R	97 R57	4P
238	21	3.79	3.10	RXF	67	4P	2.50	2568	560	1.15	RF	97 R57	4P
254	20	3.55	3.30				2.90	2225	484	1.30			
287	17	3.14	3.60				3.20	2009	431	1.45			
309	16	2.91	3.90				3.60	1764	379	1.65			
							4.10	1568	336	1.90			
							4.70	1372	296	2.10			
							5.50	1147	249	2.60			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.75KW						0.75KW							
3.50	1833	398	0.85	R	87 R57	4P	11	637	128.97	0.90	R	67	4P
3.90	1617	352	0.95	RF	87 R57	4P	12	561	113.94	1.00	RF	67	4P
4.50	1401	305	1.10				13	523	105.83	1.10			
5.20	1235	268	1.25				14	475	95.91	1.20			
5.90	1088	236	1.40				16	423	86.11	1.35			
							19	366	74.17	1.55			
3.80	1705	361	0.90	R	87 R57	4P	20	342	69.75	1.65			
4.60	1411	300	1.10	RF	87 R57	4P	23	304	61.26	1.90			
5.40	1196	256	1.25				24	280	56.89	2.00			
							27	257	51.56	2.20			
2.80	2480	251.15	1.65	R	107	8P	30	228	46.29	2.50			
3.00	2271	229.95	1.80	RF	107	8P							
3.40	2005	203.16	2.00				13	527	106.58	0.80	R	57	4P
							14	489	98.99	0.90	RF	57	4P
3.20	2128	216.28	1.35	R	97	8P	15	442	89.71	0.95			
3.70	1834	186.30	1.55	RF	97	8P	17	399	80.55	1.10			
4.10	1672	170.02	1.70				20	342	69.23	1.25			
							21	318	64.85	1.30			
3.50	1929	255.71	1.45	R	97	6P	24	280	57.29	1.50			
3.70	1824	241.25	1.55	RF	97	6P							
4.20	1634	216.28	1.75				26	261	53.22	1.65	R	57	4P
							29	238	48.23	1.80	RF	57	4P
4.80	1425	289.74	2.00	R	97	4P	32	214	43.30	2.00			
5.40	1264	255.71	2.30	RF	97	4P	37	184	37.30	2.30			
5.70	1188	241.25	2.40				39	173	35.07	2.50			
6.40	1064	216.28	2.70				46	149	30.18	2.90			
7.40	922	186.30	3.10				51	133	26.97	3.20			
8.10	836	170.02	3.40										
							52	130	26.31	3.30	R	57	4P
4.20	1634	216.54	0.90	R	87	6P	56	122	24.70	3.50	RF	57	4P
4.40	1543	203.79	0.96	RF	87	6P	63	108	21.93	4.00			
5.00	1378	181.77	1.05				74	92	18.60	4.70			
5.80	1178	155.34	1.25	R	87	6P	20	337	68.54	0.85	R	47	4P
6.40	1063	140.99	1.36	RF	87	6P	21	318	64.21	0.90	RF	47	4P
							24	280	56.73	1.00			
5.60	1216	246.54	1.20	R	87	4P							
6.40	1064	216.54	1.40	RF	87	4P	26	261	52.69	1.10	R	47	4P
6.80	1007	203.79	1.46				29	238	47.75	1.20	RF	47	4P
7.60	893	181.77	1.65				32	214	42.87	1.35			
8.90	770	155.34	1.90				37	182	36.93	1.55			
9.80	696	140.99	2.10				40	171	34.73	1.65			
11.00	618	124.97	2.40				46	147	29.88	1.95			
12.00	584	118.43	2.50				52	132	26.70	2.20			
13.00	513	103.65	2.90				60	112	22.81	2.60			
15.00	461	93.38	3.20										
							52	132	26.74	2.20	R	47	4P
8.30	817	166.59	0.95	R	77	4P	59	115	23.28	2.50	RF	47	4P
9.50	717	145.67	1.10	RF	77	4P	63	107	21.81	2.70			
10.00	676	136.78	1.16				72	95	19.27	3.00			
							77	88	17.89	3.10			
11.00	599	121.42	1.30	R	77	4P	85	80	16.22	3.30			
13.00	508	102.99	1.55	RF	77	4P							
15.00	461	92.97	1.70				29	238	48.08	0.80	R	37	4P
17.00	404	81.80	1.95				31	223	44.81	0.85	RF	37	4P
18.00	380	77.24	2.10				35	195	39.17	1.00			
21.00	323	65.77	2.40										
24.00	285	57.68	2.70				38	181	36.72	1.05	R	37	4P
27.00	257	52.07	3.00				43	160	32.40	1.20	RF	37	4P
30.00	228	45.81	3.50				48	142	28.73	1.35			
32.00	214	43.26	3.70				57	121	24.42	1.60			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
0.75KW						0.75KW							
62	110	22.27	1.75	R	37	4P	317	22.00	4.35	3.00	RX	57	4P
71	95	19.31	2.00	RF	37	4P	364	19.00	3.79	3.50	RXF	57	4P
76	89	18.05	2.10				389	17.00	3.55	3.80			
88	77	15.60	2.50				440	15.00	3.14	4.00			
104	66	13.25	2.80				474	14.00	2.91	4.40			
117	58	11.83	3.00				523	13.00	2.64	5.00			
137	50	10.11	3.20				582	11.00	2.37	5.60			
146	47	9.47	3.40				676	10.00	2.04	6.50			
							719	9.50	1.92	6.90			
48	142	28.78	0.85	R	27	4P	835	8.20	1.65	8.00			
56	121	24.47	1.00	RF	27	4P	935	7.30	1.48	8.80			
							1094	6.30	1.26	9.60			
62	110	22.32	1.10	R	27	4P	1.1KW						
71	95	19.35	1.30	RF	27	4P							
76	89	18.08	1.40										
88	77	15.63	1.60										
104	66	13.28	1.90										
116	59	11.86	2.10										
136	50	10.13	2.30										
147	47	9.41	2.50										
169	40	8.16	2.70										
181	38	7.63	2.80										
209	32	6.59	3.10				0.53	17542	2657	1.00	R	167 R97	4P
246	28	5.60	3.40				0.60	15288	2333	1.15	RF	167 R97	4P
276	25	5.00	3.70				0.67	13524	2085	1.30			
							0.75	12054	1877	1.45			
70	97	19.71	0.85	R	17	4P	0.84	10780	1670	1.65			
81	84	16.99	0.95	RF	17	4P	0.97	9486	1438	1.85			
87	78	15.84	1.05				1.10	8448	1279	2.10			
100	68	13.84	1.20				1.20	7360	1123	2.40			
106	64	12.98	1.25										
121	56	11.45	1.35				0.63	14994	2211	0.85	R	147 R77	4P
136	50	10.15	1.45				0.72	13230	1951	0.95	RF	147 R77	4P
160	43	8.63	1.60				0.82	11466	1705	1.10			
183	37	7.55	1.45				0.91	10290	1536	1.25			
196	35	7.04	1.50				1.10	8879	1329	1.45			
224	30	6.15	1.70				1.20	7762	1166	1.65			
239	29	5.76	1.75				1.40	6821	1029	1.85			
271	25	5.09	1.95				1.60	5909	889	2.20			
306	22	4.51	2.10				1.80	5194	784	2.50			
360	19	3.83	2.30				2.00	4586	695	2.80			
199	34	4.53	2.30	RX	67	6P	1.00	9418	1391	0.85	R	137 R77	4P
211	32	4.25	2.30	RXF	67	6P	1.10	8487	1256	0.90	RF	137 R77	4P
239	29	3.77	2.90				1.30	7438	1105	1.05			
281	25	3.20	3.90				1.30	7017	1043	1.10			
							1.60	5949	888	1.30			
267	26.00	5.18	2.80	RX	67	4P	1.00	9343	1383	0.86	R	137 R77	4P
305	23.00	4.53	3.50	RXF	67	4P	1.10	8252	1226	0.95	RF	137 R77	4P
325	21.00	4.25	3.60				1.30	7286	1079	1.06			
366	19.00	3.77	4.40				1.50	6368	942	1.21			
431	16.00	3.20	6.00				1.70	5557	831	1.40			
478	14.00	2.89	7.10				1.90	4851	730	1.60			
543	12.00	2.54	8.90				2.20	4145	629	1.90			
575	12.00	2.40	9.80				2.50	3753	560	2.10			
675	10.00	2.04	13.00				2.90	3234	490	2.40			
743	9.10	1.86	13.00										
858	7.90	1.61	14.00				1.90	4831	717	0.85	R	107 R77	4P
											RF	107 R77	4P
							2.30	4067	614	1.05	R	107 R77	4P
							2.60	3597	544	1.15	RF	107 R77	4P
							2.80	3244	492	1.30			
							3.40	2754	417	1.55			
							3.80	2460	369	1.70			
							4.30	2156	323	1.95			
238	29	3.79	2.30	RX	57	6P	4.90	1891	285	2.20			
254	27	3.55	2.40	RXF	57	6P	5.50	1666	253	2.50			
287	24	3.14	2.60										
309	22	2.91	2.90										
341	20	2.64	3.30										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
1.1KW						1.1KW							
3.20	2930	431	1.00	R	97 R57	4P	16	613	86.11	0.95	R	67	4P
3.70	2568	379	1.15	RF	97 R57	4P	19	527	74.17	1.10	RF	67	4P
4.20	2283	336	1.30				20	499	69.75	1.15			
4.70	2009	296	1.45				23	437	61.26	1.30			
5.60	1676	249	1.75				25	404	56.89	1.40			
6.00	1558	234	1.90				27	366	51.56	1.55			
6.70	1401	209	2.10				30	328	46.29	1.75			
							35	285	39.87	1.95			
5.20	1803	268	0.85	R	87 R57	4P	37	266	37.50	2.00			
5.90	1597	236	0.95	RF	87 R57	4P	43	228	32.27	2.20			
6.70	1401	209	1.10				49	204	28.83	2.40			
5.50	1744	256	0.85	R	87 R57	4P	50	200	28.13	2.60	R	67	4P
6.00	1578	232	0.95	RF	87 R57	4P	53	188	26.41	2.70	RF	67	4P
7.20	1343	195	1.10				60	167	23.44	3.20			
							70	142	19.89	4.00			
2.70	3743	251.15	1.10	R	107	4P	20	494	69.23	0.85	R	57	4P
2.90	3430	229.95	1.20	RF	107	4P	22	461	64.85	0.90	RF	57	4P
3.30	3031	203.16	1.35				24	409	57.29	1.05			
3.90	2565	172.34	1.60										
3.60	2774	255.71	1.05	R	97	4P	26	380	53.22	1.15	R	57	4P
3.80	2613	241.25	1.10	RF	97	4P	29	342	48.23	1.25	RF	57	4P
4.20	2347	216.28	1.20				32	309	43.30	1.40			
4.90	2024	186.30	1.40				38	266	37.30	1.60			
							40	252	35.07	1.70			
5.50	1824	255.71	1.55	R	97	4P	46	214	30.18	2.00			
5.80	1720	241.25	1.65	RF	97	4P	52	190	26.97	2.20			
6.50	1539	216.28	1.85										
7.50	1330	186.30	2.20				53	187	26.31	2.30	R	57	4P
8.20	1216	170.02	2.40				57	177	24.70	2.40	RF	57	4P
9.30	1074	150.78	2.70				64	157	21.93	2.70			
11.00	903	126.75	3.20				75	133	18.60	3.20			
12.00	827	116.48	3.40				83	120	16.79	3.60			
6.50	1539	216.54	0.95	R	87	4P	29	342	47.75	0.85	R	47	4P
6.90	1449	203.79	1.01	RF	87	4P	33	304	42.87	0.95	RF	47	4P
7.70	1292	181.77	1.15				38	261	36.93	1.10			
							40	247	34.73	1.15			
9.00	1112	155.34	1.35	R	87	4P	47	214	29.88	1.35			
9.90	1008	140.99	1.46	RF	87	4P	52	190	26.70	1.50			
11.00	893	124.97	1.65				61	163	22.81	1.76			
12.00	846	118.43	1.75										
14.00	741	103.65	2.00				60	166	23.28	1.70	R	47	4P
15.00	665	93.38	2.20				64	156	21.81	1.85	RF	47	4P
17.00	584	81.92	2.50				73	138	19.27	2.00			
19.00	513	71.84	2.90				78	127	17.89	2.20			
22.00	456	63.68	3.20				86	116	16.22	2.30			
23.00	432	60.35	3.40				96	104	14.56	2.40			
27.00	375	52.82	3.90				112	89	12.54	2.70			
							119	85	11.79	2.80			
12.00	865	121.42	0.90	R	77	4P	138	72	10.15	3.00			
14.00	736	102.99	1.05	RF	77	4P	154	65	9.07	3.20			
15.00	665	92.97	1.20										
17.00	584	81.80	1.35	R	77	4P	43	233	32.40	0.80	R	37	4P
18.00	551	77.24	1.40	RF	77	4P	49	204	28.73	0.95	RF	37	4P
21.00	470	65.77	1.65				57	174	24.42	1.10			
24.00	413	57.68	1.90										
27.00	371	52.07	2.10				73	138	19.31	1.40	R	37	4P
31.00	328	45.81	2.40				78	128	18.05	1.50	RF	37	4P
32.00	309	43.26	2.50				90	111	15.60	1.70			
38.00	261	36.83	3.00										
42.00	238	33.47	3.30										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
1.1KW						1.5KW							
106	94	13.25	1.90	R	37	4P	0.60	20972	2333	0.85	R	167 R97	4P
118	85	11.83	2.10	RF	37	4P	0.68	18620	2085	0.95	RF	167 R97	4P
139	72	10.11	2.20				0.75	16660	1877	1.05			
148	67	9.47	2.40				0.84	14798	1670	1.20			
176	57	7.97	2.60				0.98	13034	1438	1.35			
210	48	6.67	2.90				1.10	11564	1279	1.50			
247	41	5.67	3.30				1.30	10094	1123	1.75			
277	36	5.06	3.60				1.40	8996	999	1.95			
72	138	19.35	0.90	R	27	4P	3.30	3842	426	3.30	R	147 R87	4P
77	129	18.08	0.95	RF	27	4P	3.80	3312	368	3.80	RF	147 R87	4P
90	111	15.63	1.10										
105	95	13.28	1.30				0.83	15582	1705	0.80	R	147 R77	4P
118	85	11.86	1.45				0.92	14014	1536	0.90	RF	147 R77	4P
138	72	10.13	1.60				1.10	12152	1329	1.05			
172	58	8.16	1.90				1.20	10584	1166	1.20			
184	54	7.63	1.95				1.40	9339	1029	1.35			
212	48	6.59	2.10				1.60	8085	889	1.60			
250	40	5.60	2.40				1.80	7115	784	1.80			
280	36	5.00	2.50				2.00	6292	695	2.00			
328	30	4.27	2.70				2.30	5664	619	2.30			
350	29	4.00	2.80				2.50	5096	558	2.50			
415	24	3.37	3.10										
249	40	5.63	2.60	RX	77	4P	1.40	9575	1043	0.80	R	137 R77	4P
264	38	5.30	2.60	RXF	77	4P	1.60	8124	888	0.95	RF	137 R77	4P
296	34	4.73	3.50				2.00	6370	699	1.25			
							2.30	5527	609	1.40			
203	49	4.53	1.60	RX	67	4P	1.30	9895	1079	0.81	R	137 R77	4P
217	46	4.25	1.67	RXF	67	4P	1.50	8678	942	0.91	RF	137 R77	4P
244	41	3.77	2.00				1.70	7595	831	1.05			
							1.90	6635	730	1.20			
309	32	4.53	2.40	RX	67	4P	2.20	5684	629	1.40			
330	30	4.25	2.50	RXF	67	4P	2.50	5125	560	1.55			
371	27	3.77	3.10				2.90	4439	490	1.75			
438	23	3.20	4.20				3.30	3871	428	2.00			
485	21	2.89	4.90				3.70	3489	381	2.30			
551	18	2.54	6.20				4.40	2960	323	2.70			
583	17	2.40	6.80										
685	14	2.04	8.80				2.70	4802	528	0.90	R	107 R77	4P
754	13	1.86	9.10								RF	107 R77	4P
870	11	1.61	9.40										
1000	10	1.40	9.90				2.60	4929	544	0.85	R	107 R77	4P
							2.90	4459	492	0.95	RF	107 R77	4P
243	41	3.79	1.60	RX	57	6P	3.40	3773	417	1.10			
259	39	3.55	1.70	RXF	57	6P	3.80	3371	369	1.25			
293	34	3.14	1.80				4.40	2940	323	1.45			
316	31	2.91	2.00										
348	29	2.64	2.30				3.00	4381	469	0.95	R	107 R77	4P
											RF	107 R77	4P
369	27	3.79	2.40	RX	57	4P							
394	26	3.55	2.60	RXF	57	4P	4.20	3107	336	0.95	R	97 R57	4P
446	23	3.14	2.80				4.80	2734	296	1.10	RF	97 R57	4P
481	21	2.91	3.10				5.70	2283	249	1.30			
530	19	2.64	3.50				6.00	2136	234	1.40			
591	17	2.37	3.90				6.80	1911	209	1.55			
686	14	2.04	4.50										
729	13	1.92	4.80				3.00	4475	229.95	0.90	R	107	8P
847	11	1.65	5.60				3.50	3952	203.16	1.05	RF	107	8P
948	10	1.48	6.10				4.10	3354	172.34	1.20			
1109	9	1.26	6.60				4.40	3088	158.68	1.30			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
1.5KW						1.5KW							
3.70	3751	251.15	1.10	R	107	6P	27	513	53.22	0.85	R	57	4P
4.00	3401	229.95	1.20	RF	107	6P	29	466	48.23	0.90	RF	57	4P
4.50	3002	203.16	1.35				33	418	43.30	1.00			
5.30	2546	172.34	1.60										
5.80	2347	158.68	1.75				38	361	37.30	1.20	R	57	4P
6.50	2100	141.83	1.95				40	337	35.07	1.25	RF	57	4P
							47	290	30.18	1.45			
5.50	2470	255.71	1.15	R	97	4P	52	261	26.97	1.65			
5.80	2328	241.25	1.20	RF	97	4P							
6.50	2090	216.28	1.35				54	252	26.31	1.70	R	57	4P
7.60	1796	186.30	1.60				57	239	24.70	1.77	RF	57	4P
8.30	1644	170.02	1.75				64	214	21.93	2.00			
9.30	1454	150.78	1.95				76	180	18.60	2.40			
11.00	1226	126.75	2.30				84	162	16.79	2.60			
12.00	1121	116.48	2.50				95	143	14.77	2.90			
14.00	998	103.44	2.90				101	135	13.95	3.00			
15.00	893	92.48	3.20				119	115	11.88	3.40			
7.80	1758	181.77	0.85	R	87	4P	38	356	36.93	0.80	R	47	4P
9.10	1501	155.34	1.00	RF	87	4P	41	337	34.73	0.85	RF	47	4P
10.00	1364	140.99	1.06				47	290	29.88	1.00			
11.00	1207	124.97	1.20				53	257	26.70	1.10			
12.00	1140	118.43	1.30				62	220	22.81	1.29			
14.00	998	103.65	1.45										
15.00	903	93.38	1.65	R	87	4P	61	223	23.28	1.25	R	47	4P
17.00	789	81.92	1.85	RF	87	4P	65	209	21.81	1.35	RF	47	4P
19.00	691	71.84	2.10				73	186	19.27	1.50			
22.00	613	63.68	2.40				79	173	17.89	1.60			
23.00	584	60.35	2.50				87	157	16.22	1.65			
27.00	508	52.82	2.90				97	141	14.56	1.80			
30.00	461	47.58	3.20				112	121	12.54	1.95			
34.00	404	41.74	3.70				120	114	11.79	2.10			
38.00	356	36.84	4.10				139	98	10.15	2.20			
							155	87	9.07	2.40			
15.00	893	92.97	0.85	R	77	4P	182	74	7.75	2.60			
17.00	789	81.80	1.00	RF	77	4P	182	75	7.76	2.10			
18.00	746	77.24	1.05				203	67	6.96	2.30			
21.00	637	65.77	1.25				235	58	6.00	2.60			
							250	54	5.64	2.70			
24.00	556	57.68	1.40	R	77	4P	291	47	4.85	3.00			
27.00	504	52.07	1.55	RF	77	4P	325	42	4.34	3.30			
31.00	442	45.81	1.75				381	36	3.70	3.80			
33.00	418	43.26	1.85										
38.00	356	36.83	2.20				73	186	19.31	1.00	R	37	4P
42.00	323	33.47	2.40				78	174	18.05	1.10	RF	37	4P
49.00	280	29.00	2.80				90	151	15.60	1.25			
56.00	242	25.23	3.00										
							106	128	13.25	1.40	R	37	4P
60.00	228	23.37	3.50	R	77	4P	119	114	11.83	1.50	RF	37	4P
67.00	207	21.21	3.80	RF	77	4P	140	98	10.11	1.65			
75.00	181	18.80	4.10				149	91	9.47	1.75			
							177	77	7.97	1.95			
23.00	589	61.26	0.95	R	67	4P	211	65	6.67	2.10			
25.00	551	56.89	1.05	RF	67	4P	249	55	5.67	2.50			
27.00	499	51.56	1.15				279	48	5.06	2.60			
30.00	447	46.29	1.30				326	42	4.32	2.90			
35.00	385	39.87	1.45				348	39	4.05	3.00			
38.00	361	37.50	1.50				414	33	3.41	3.20			
44.00	314	32.27	1.65										
49.00	280	28.83	1.80										
50.00	271	28.13	1.90	R	67	4P							
54.00	254	26.14	2.00	RF	67	4P							
60.00	228	23.44	2.40										
71.00	190	19.89	3.00										
79.00	173	17.95	3.20										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
1.5KW						2.2KW							
90	151	15.63	0.80	R	27	4P	1.20	15680	1166	0.80	R	147 R77	4P
106	128	13.28	0.95	RF	27	4P	1.40	13818	1029	0.90	RF	147 R77	4P
119	115	11.86	1.05				1.60	11956	889	1.05			
139	98	10.13	1.20				1.80	10584	784	1.20			
173	79	8.16	1.40				2.00	9330	695	1.35			
185	74	7.63	1.45				2.30	8379	619	1.50			
214	64	6.59	1.60				2.50	7536	558	1.70			
252	54	5.60	1.75				2.90	6595	489	1.90			
282	48	5.00	1.85										
330	41	4.27	2.00				2.00	9428	699	0.85	R	137 R77	4P
353	39	4.00	2.10				2.30	8183	609	0.95	RF	137 R77	4P
418	32	3.37	2.30										
							1.90	9800	730	0.80	R	137 R77	4P
250	54	5.63	1.90	RX	77	4P	2.20	8438	629	0.95	RF	137 R77	4P
266	51	5.30	1.92	RXF	77	4P	2.50	7575	560	1.05			
298	46	4.73	2.60				2.90	6586	490	1.20			
349	39	4.04	3.50				3.30	5743	428	1.35			
384	36	3.67	4.10				3.70	5155	381	1.50			
434	31	3.25	5.50				4.40	4371	323	1.80			
458	29	3.08	6.20				4.80	3940	291	2.00			
523	26	2.70	7.90				5.50	3440	255	2.30			
581	24	2.43	8.70				6.30	3009	223	2.60			
							4.40	4361	323	0.95	R	107 R77	4P
312	44	4.53	1.80	RX	67	4P	4.90	3842	285	1.10	RF	107 R77	4P
332	41	4.25	1.87	RXF	67	4P	5.60	3401	253	1.25			
374	36	3.77	2.30				6.60	2881	214	1.45			
441	31	3.20	3.10										
488	28	2.89	3.60				4.40	4449	325	0.95	R	107 R77	4P
555	25	2.54	4.60								RF	107 R77	4P
588	23	2.40	5.00										
690	20	2.04	6.40										
759	18	1.86	6.70				6.80	2822	209	1.05	R	97 R57	4P
876	15	1.61	7.00								RF	97 R57	4P
1005	13	1.40	7.30										
							3.10	6346	222.60	1.20	R	137	8P
372	37	3.79	1.80	RX	57	4P	3.70	5377	188.45	1.40	RF	137	8P
397	34	3.55	1.90	RXF	57	4P	4.00	4969	174.40	1.55			
450	30	3.14	2.00				4.50	4456	156.31	1.70			
484	29	2.91	2.30				5.00	4028	141.12	1.90			
534	26	2.64	2.60										
595	23	2.37	2.90				5.50	3658	128.18	2.10	R	137	8P
691	20	2.04	3.30				6.20	3240	113.72	2.30	RF	137	8P
734	19	1.92	3.50				6.80	2945	103.20	2.60			
853	16	1.65	4.10										
955	14	1.48	4.50				4.60	4313	203.16	0.95	R	107	6P
1114	12	1.26	4.80				5.50	3658	172.34	1.10	RF	107	6P
							5.90	3373	158.68	1.20			
2.2KW							6.60	3012	141.83	1.35			
0.84	22148	1670	0.80	R	167 R97	4P							
0.98	19306	1438	0.90	RF	167 R97	4P	5.60	3533	251.15	1.15	R	107	4P
1.10	17150	1279	1.05				6.10	3259	229.95	1.25	RF	107	4P
1.30	14995	1123	1.15				6.90	2879	203.16	1.40			
1.40	13328	999	1.30										
1.60	11564	881	1.55				8.20	2442	172.34	1.65	R	107	4P
1.90	10192	760	1.75				8.90	2242	158.68	1.80	RF	107	4P
2.10	8555	656	2.10				9.90	2005	141.83	2.00			
							11.00	1805	127.68	2.30			
2.60	7056	533	1.80	R	147 R87	4P	12.00	1634	115.63	2.50			
3.10	6066	462	2.10	RF	147 R87	4P	14.00	1454	102.53	2.80			
3.30	5704	426	2.20				15.00	1311	92.70	3.10			
3.80	4929	368	2.60										
4.30	4361	326	2.90				6.50	3059	216.28	0.95	R	97	4P
							7.60	2641	186.30	1.10	RF	97	4P
							8.30	2404	170.02	1.20			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
2.2KW						2.2KW							
9.3	2138	150.78	1.35	R	97	4P	38	527	37.3	0.8	R	57	4P
11	1796	126.75	1.6	RF	97	4P	40	499	35.07	0.85	RF	57	4P
12	1653	116.48	1.75				47	428	30.18	1			
14	1463	103.44	1.95				52	380	26.97	1.1			
15	1311	92.48	2.2										
17	1178	83.15	2.4				64	309	21.93	1.4	R	57	4P
20	1026	72.17	2.8				76	261	18.6	1.6	RF	57	4P
22	922	65.21	3.1				84	238	16.79	1.8			
24	846	59.92	3.4				95	209	14.77	2			
27	755	53.21	3.8				101	200	13.95	2.1			
30	675	47.58	4.2				119	168	11.88	2.3			
							131	153	10.79	2.4			
11	1767	124.97	0.85	R	87	4P	151	132	9.35	2.7			
12	1672	118.43	0.9	RF	87	4P	156	128	9.06	2.8			
14	1463	103.65	1				177	113	7.97	3			
15	1321	93.38	1.1										
17	1159	81.92	1.25				73	271	19.27	1.05	R	47	4P
							87	228	16.22	1.15	RF	47	4P
19	1016	71.84	1.46	R	87	4P	97	204	14.56	1.2			
22	903	63.68	1.65	RF	87	4P	112	178	12.54	1.35			
23	855	60.35	1.7				120	167	11.79	1.4			
27	746	52.82	1.95				139	143	10.15	1.5			
30	675	47.58	2.2				155	128	9.07	1.65			
34	589	41.74	2.5				182	109	7.75	1.76			
38	523	36.84	2.8				182	110	7.76	1.4			
43	461	32.66	3.2				203	99	6.96	1.55			
							235	85	6	1.75			
41	489	34.4	2.9	R	87	4P	250	80	5.64	1.85			
45	447	31.4	3.3	RF	87	4P	291	68	4.85	2.1			
51	394	27.84	3.7				325	62	4.34	2.3			
60	333	23.4	4.5				381	52	3.7	2.6			
66	304	21.51	4.7										
							90	219	15.6	0.85	R	37	4P
21	931	65.77	0.85	R	77	4P	106	188	13.25	0.95	RF	37	4P
24	817	57.68	0.95	RF	77	4P	119	167	11.83	1.05			
27	736	52.07	1.05										
31	651	45.81	1.2				140	143	10.11	1.15	R	37	4P
							149	134	9.47	1.2	RF	37	4P
33	613	43.26	1.25	R	77	4P	177	113	7.97	1.3			
38	523	36.83	1.5	RF	77	4P	211	94	6.67	1.45			
42	475	33.47	1.65				249	80	5.67	1.7			
49	409	29	1.9				279	71	5.06	1.8			
56	356	25.23	2.1				326	61	4.32	1.95			
							348	57	4.05	2			
60	333	23.37	2.4	R	77	4P	414	48	3.41	2.2			
67	301	21.21	2.6	RF	77	4P							
75	266	18.8	2.8				139	143	10.13	0.8	R	27	4P
79	252	17.82	2.9				214	93	6.59	1.1	RF	27	4P
90	219	15.6	3.2				252	79	5.6	1.2			
100	200	14.05	3.4				282	71	5	1.3			
							330	61	4.27	1.35			
35	565	39.87	1	R	67	4P	353	57	4	1.45			
38	532	37.5	1	RF	67	4P	418	48	3.37	1.55			
44	456	32.27	1.1										
49	409	28.83	1.2				298	67	4.73	1.75	RX	77	4P
							349	57	4.04	2.4	RXF	77	4P
60	333	23.44	1.6	R	67	4P	384	52	3.67	2.8			
71	280	19.89	2	RF	67	4P	434	46	3.25	3.8			
79	257	17.95	2.2				458	44	3.08	4.2			
89	223	15.79	2.4				523	38	2.7	5.4			
95	209	14.91	2.5				581	34	2.43	5.9			
111	180	12.7	2.8				662	30	2.13	6.3			
122	163	11.54	2.9				750	27	1.88	6.7			
141	142	10	3.2				846	24	1.67	7			
162	124	8.7	3.4				991	20	1.42	7.3			
181	110	7.79	3.3										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
2.2KW						3KW							
374	53	3.77	1.55	RX	67	4P	5.60	4845	128.18	1.55	R	137	8P
441	46	3.20	2.10	RXF	67	4P	6.30	4294	113.72	1.75	RF	137	8P
488	41	2.89	2.50				7.00	3905	103.20	1.95			
555	36	2.54	3.10				8.10	3354	88.70	2.30			
588	34	2.40	3.40										
690	29	2.04	4.40				4.20	6441	222.60	1.20	R	137	6P
759	27	1.86	4.60				5.00	5453	188.45	1.40	RF	137	6P
876	23	1.61	4.80				5.40	5054	174.40	1.50			
1005	20	1.40	5.00				6.00	4522	156.31	1.70			
							6.70	4085	141.12	1.85			
450	45	3.14	1.40	RX	57	4P							
534	37	2.64	1.75	RXF	57	4P	7.30	3715	128.18	2.10	R	137	6P
595	33	2.37	1.95				8.30	3297	113.72	2.30	RF	137	6P
691	29	2.04	2.30				7.40	2993	103.20	2.50			
734	28	1.92	2.40										
853	24	1.65	2.80				5.90	4598	159.68	0.90	R	107	6P
955	21	1.48	3.10				6.60	4104	141.83	1.00	RF	107	6P
1114	17	1.26	3.40				7.40	3696	127.68	1.10			
3KW													
1.20	20776	1123	0.85	R	167 R97	4P	6.10	4475	229.95	0.90	R	107	4P
1.40	18522	999	0.95	RF	167 R97	4P	6.90	3952	203.16	1.05	RF	107	4P
1.60	15974	861	1.10				8.10	3354	172.34	1.20			
1.80	14112	760	1.25				8.80	3088	158.68	1.30			
2.10	11956	656	1.50				9.90	2755	141.83	1.50			
2.80	9143	503	1.95				11.00	2480	127.68	1.65			
							12.00	2252	115.63	1.80			
2.60	9790	533	1.30	R	147 R87	4P	14.00	1995	102.53	2.10			
3.00	8438	462	1.50	RF	147 R87	4P	15.00	1805	92.70	2.30			
3.30	7899	426	1.60				18.00	1530	78.57	2.70			
3.80	6821	368	1.85				19.00	1416	72.88	2.90			
4.30	6027	326	2.10				9.30	2936	150.78	0.95	R	97	4P
5.00	5125	280	2.50				11.00	2461	126.75	1.15	RF	97	4P
							12.00	2261	116.48	1.25			
1.60	16562	898	0.75	R	147 R77	4P	14.00	2014	103.44	1.40			
1.80	14602	784	0.85	RF	147 R77	4P	15.00	1796	92.48	1.60			
2.00	12936	695	1.00				17.00	1615	83.15	1.75			
2.30	11564	619	1.10				19.00	1406	72.17	2.00			
2.50	10388	558	1.20				21.00	1264	65.21	2.30			
							23.00	1169	59.92	2.50			
2.90	9094	490	0.85	R	137 R77	4P	26.00	1036	53.21	2.80			
3.30	7938	428	1.00	RF	137 R77	4P	29.00	922	47.58	3.10			
3.70	7115	381	1.10				33.00	836	42.78	3.40			
4.30	6037	323	1.30				38.00	722	37.13	4.00			
4.80	5429	291	1.45				42.00	646	33.25	4.30			
5.50	4743	255	1.65										
6.30	4155	223	1.90				15.00	1815	93.38	0.80	R	87	4P
							17.00	1596	81.92	0.90	RF	87	4P
2.70	9696	512	0.81	R	137 R77	4P	19.00	1401	71.84	1.06			
3.10	8585	453	0.90	RF	137 R77	4P	22.00	1235	63.68	1.20			
5.50	4694	253	0.90	R	107 R77	4P	23.00	1169	60.35	1.25	R	87	4P
6.50	3979	214	1.05	RF	107 R77	4P	27.00	1026	52.82	1.45	RF	87	4P
7.50	3479	187	1.20				29.00	922	47.58	1.60			
							34.00	808	41.74	1.80			
5.50	4831	256	0.85	R	107 R77	4P	38.00	717	36.84	2.10			
				RF	107 R77	4P	43.00	637	32.66	2.30			
							50.00	542	27.88	2.60			
3.20	8417	222.60	0.90	R	137	8P							
3.80	7125	188.45	1.05	RF	137	8P	41.00	670	34.40	2.10	R	87	4P
4.10	6593	174.40	1.15				45.00	608	31.40	2.40	RF	87	4P
4.60	5909	156.31	1.30				50.00	542	27.84	2.70			
5.10	5339	141.12	1.40				60.00	456	23.40	3.20			
							65.00	418	21.51	3.40			
							73.00	371	19.10	3.70			
							82.00	333	17.08	4.00			
							91.00	299	15.35	4.30			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
3KW						3KW							
31	893	45.81	0.85	R	77	4P	139	195	10.11	0.80	R	37	4P
32	846	43.26	0.95	RF	77	4P	148	184	9.47	0.85	RF	37	4P
38	717	36.83	1.10				176	155	7.97	0.95			
42	651	33.47	1.20										
48	565	29.00	1.40	R	77	4P	210	130	6.67	1.05	R	37	4P
55	489	25.23	1.50	RF	77	4P	247	110	5.67	1.25	RF	37	4P
							277	99	5.06	1.30			
60	456	23.37	1.70	R	77	4P	324	84	4.32	1.45			
66	414	21.21	1.87	RF	77	4P	346	79	4.05	1.45			
74	366	18.80	2.00				411	67	3.41	1.60			
79	347	17.82	2.10										
90	304	15.60	2.30				250	109	5.60	0.85	R	27	4P
100	276	14.05	2.50				280	97	5.00	0.95	RF	27	4P
114	238	12.33	2.70				328	83	4.27	1.00			
129	214	10.88	3.00				350	78	4.00	1.05			
145	187	9.64	3.20				415	66	3.37	1.15			
163	167	8.59	3.60										
181	150	7.74	3.90				217	125	6.45	1.45	RX	87	4P
206	132	6.79	4.20				252	108	5.56	2.00	RXF	87	4P
							276	99	5.07	2.40			
60	456	23.44	1.15	R	67	4P	311	87	4.50	3.20			
70	385	19.86	1.45	RF	67	4P	370	73	3.78	3.90			
78	347	17.95	1.60										
89	309	15.79	1.75				296	92	4.73	1.25	RX	77	4P
94	290	14.91	1.80				347	79	4.04	1.75	RXF	77	4P
110	247	12.70	2.00				381	72	3.67	2.00			
121	223	11.54	2.10				431	64	3.25	2.70			
140	195	10.00	2.30				455	60	3.08	3.10			
52	523	26.97	0.80	R	57	4P	371	73	3.77	1.15	RX	67	4P
				RF	57	4P	438	63	3.20	1.55	RXF	67	4P
							485	56	2.89	1.80			
64	428	21.93	1.00	R	57	4P	551	49	2.54	2.30			
75	361	18.60	1.20	RF	57	4P	583	47	2.40	2.50			
83	328	16.79	1.30				685	40	2.04	3.20			
							754	36	1.86	3.30			
95	285	14.77	1.45	R	57	4P	870	31	1.61	3.50			
100	271	13.95	1.50	RF	57	4P	1000	28	1.40	3.60			
118	233	11.88	1.65										
130	209	10.79	1.75				446	61	3.14	1.00	RX	57	4P
150	181	9.35	1.95				530	51	2.64	1.30	RXF	57	4P
155	176	9.06	2.00				591	47	2.37	1.40			
176	155	7.97	2.20				686	40	2.04	1.65			
186	146	7.53	2.30				729	37	1.92	1.75			
218	124	6.41	2.60				847	32	1.65	2.00			
240	113	5.82	2.70				948	29	1.48	2.30			
277	98	5.05	3.00				1109	25	1.26	2.50			
319	86	4.39	3.10				4KW						
							1.70	21070	861	0.85	R	167 R97	4P
86	314	16.22	0.85	R	47	4P	1.90	18620	760	0.95	RF	167 R97	4P
96	285	14.56	0.90	RF	47	4P	2.20	15778	656	1.10			
112	242	12.54	0.95				2.80	12152	503	1.45			
							3.80	9075	376	1.95			
119	228	11.79	1.00	R	47	4P	4.20	8075	335	2.20			
138	200	10.15	1.10	RF	47	4P							
154	177	9.07	1.20				2.70	12936	533	1.00	R	147 R87	4P
181	151	7.75	1.29				3.10	11172	462	1.15	RF	147 R87	4P
181	151	7.76	1.05				3.30	10388	426	1.20			
201	136	6.96	1.10				3.90	9006	368	1.40			
233	117	6.00	1.25				4.40	7967	326	1.60			
248	109	5.64	1.35				5.10	6782	280	1.90			
288	94	4.85	1.50				5.70	5988	247	2.10			
323	85	4.34	1.65				6.70	5174	214	2.50			
378	72	3.70	1.92				7.50	4577	189	2.80			
							9.00	3842	159	3.30			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
4KW						4KW							
2.30	15190	619	0.85	R	147 R77	4P	44	817	32.05	3.00	R	97	4P
2.50	13720	558	0.95	RF	147 R77	4P	52	694	27.19	3.50	RF	97	4P
2.90	12054	489	1.05				57	641	25.03	4.20			
3.40	10192	415	1.25				63	570	22.37	4.50			
							71	513	20.14	4.80			
3.70	9379	381	0.85	R	137 R77	4P	22	1625	63.68	0.90	R	87	4P
4.40	7958	323	1.00	RF	137 R77	4P	24	1539	60.35	0.95	RF	87	4P
4.90	7164	291	1.10				27	1349	52.82	1.10			
5.60	6262	255	1.25				30	1216	47.58	1.20	R	87	4P
6.40	5488	223	1.45				34	1064	41.72	1.40	RF	87	4P
3.80	9369	376	0.85	R	137 R77	4P	39	941	36.84	1.55			
4.20	8428	339	0.95	RF	137 R77	4P	43	836	32.66	1.75			
4.80	7389	297	1.05				51	713	27.88	2.00			
7.60	4586	187	0.90	R	107 R77	4P							
				RF	107 R77	4P	41	894	34.40	1.60	R	87	4P
7.30	4792	193	0.90	R	107 R77	4P	45	798	31.40	1.85	RF	87	4P
8.20	4292	172	1.00	RF	107 R77	4P	51	713	27.84	2.10			
4.40	8227	163.31	1.50	R	147	8P	61	599	23.40	2.50			
4.90	7401	146.91	1.65	RF	147	8P	66	551	21.51	2.60			
6.00	6042	119.86	2.00				74	489	19.10	2.80			
6.60	5510	109.31	2.20				83	437	17.08	3.00			
4.10	8788	174.40	0.85	R	137	8P	92	394	15.35	3.20			
4.60	7878	156.31	0.95	RF	137	8P	107	342	13.33	3.60			
5.10	7116	141.12	1.05				119	304	11.93	3.80			
5.60	6460	128.18	1.20				39	941	36.83	0.85	R	77	4P
6.30	5729	113.72	1.35				42	855	33.47	0.90	RF	77	4P
7.00	5197	103.20	1.45				49	741	29.00	1.05			
							56	646	25.23	1.15			
4.30	8417	222.60	0.90	R	137	6P	61	599	23.37	1.30	R	77	4P
5.10	7125	188.45	1.05	RF	137	6P	67	541	21.12	1.41	RF	77	4P
5.50	6593	174.40	1.15				76	480	18.80	1.55			
6.10	5909	156.31	1.30				80	456	17.82	1.65			
6.80	5339	141.12	1.40				91	399	15.60	1.75			
7.50	4845	128.18	1.55				101	361	14.05	1.90			
8.40	4295	113.72	1.75	R	137	6P	115	314	12.33	2.10			
9.30	3905	103.20	1.95	RF	137	6P	131	280	10.88	2.30			
11.00	3354	88.70	2.30				147	247	9.64	2.40			
							165	219	8.59	2.70			
8.20	4408	172.34	0.95	R	107	4P	183	200	7.74	2.90			
9	4057	158.68	1.00	RF	107	4P	209	174	6.79	3.20			
10	3629	141.83	1.15				237	153	5.99	3.40			
11	3259	127.68	1.25				267	136	5.31	3.60			
12	2955	115.63	1.40				71	508	19.89	1.10	R	67	4P
14	2622	102.53	1.55				79	461	17.95	1.20	RF	67	4P
15	2366	92.70	1.70				90	404	15.79	1.30			
18	2005	78.57	2.00				95	380	14.91	1.35			
19	1862	72.88	2.20				112	323	12.70	1.50			
22	1672	65.60	2.40				123	295	11.54	1.60			
24	1520	59.41	2.70				142	257	10.00	1.75			
27	1349	52.68	3.00				163	223	8.70	1.90			
							182	200	7.79	1.80			
12	2974	116.43	0.95	R	97	4P	193	188	7.36	1.85			
14	2641	103.44	1.10	RF	97	4P	227	161	6.27	1.95			
15	2366	92.48	1.20				249	145	5.70	2.00			
17	2128	83.15	1.35				288	126	4.93	2.20			
20	1843	72.17	1.55				331	110	4.29	2.30			
22	1663	65.21	1.70										
24	1530	59.92	1.85				76	475	18.60	0.90	R	57	4P
27	1359	53.21	2.10				85	428	16.79	1.00	RF	57	4P
30	1216	47.58	2.30				96	375	14.77	1.10			
33	1093	42.78	2.60										
38	950	37.13	3.00										
43	846	33.25	3.20										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
4KW						5.5KW							
102	356	13.95	1.15	R	57	4P	3.10	15386	462	0.85	R	147 R87	4P
120	304	11.88	1.25	RF	57	4P	3.40	14308	426	0.90	RF	147 R87	4P
132	276	10.79	1.35				3.90	12348	368	1.05			
152	238	9.35	1.45				4.40	10878	326	1.15			
157	233	9.06	1.55				5.10	9330	280	1.35			
178	204	7.97	1.65				5.80	8232	247	1.55			
189	195	7.53	1.75				6.70	7105	214	1.80			
222	163	6.41	1.95				7.60	6282	189	2.00			
244	149	5.82	2.00										
281	129	5.05	2.30				3.10	16150	229.71	1.05	R	167	8P
323	112	4.39	2.40				3.80	13110	186.93	1.30	RF	167	8P
							4.60	10735	153.07	1.60			
140	261	10.15	0.85	R	47	4P	5.10	9880	139.98	1.75			
157	233	9.07	0.90	RF	47	4P	5.80	8560	121.81	2.00			
183	198	7.75	0.98										
204	178	6.96	0.85				4.40	11495	163.31	1.10	R	147	8P
237	153	6.00	0.95				4.80	10355	146.91	1.20	RF	147	8P
252	144	5.64	1.00				5.90	8427	119.86	1.45			
293	124	4.85	1.15				6.50	7686	109.31	1.60			
327	111	4.34	1.25										
384	95	3.70	1.45				5.90	8484	163.31	1.45	R	147	6P
							6.50	7638	146.91	1.60	RF	147	6P
							8.00	6232	119.86	2.00			
255	143	5.56	1.50	RX	87	4P							
280	130	5.07	1.85	RXF	87	4P							
316	115	4.50	2.40				8.80	5681	109.31	2.20	R	147	6P
375	97	3.78	3.00				10.00	4921	94.60	2.50	RF	147	6P
							12.00	4342	83.47	2.90			
351	104	4.04	1.30	RX	77	4P							
386	94	3.67	1.56	RXF	77	4P	5.50	9006	128.18	0.85	R	137	8P
437	83	3.25	2.10				6.20	7990	113.72	0.95	RF	137	8P
461	79	3.08	2.30				6.90	7249	103.20	1.05			
527	69	2.70	3.00				8.00	6232	88.70	1.20			
585	62	2.43	3.30										
667	54	2.13	3.50				5.50	9063	174.40	0.85	R	137	6P
755	48	1.88	3.70				6.10	8123	156.30	0.95	RF	137	6P
852	43	1.67	3.90				6.80	7334	141.12	1.05			
998	36	1.42	4.10				7.50	6660	128.18	1.15			
							8.40	5909	113.72	1.30			
444	82	3.20	1.15	RX	67	4P	9.30	5368	103.20	1.40			
492	74	2.89	1.35	RXF	67	4P							
559	65	2.54	1.75				6.40	7771	222.60	1.00	R	137	4P
592	62	2.40	1.90				7.60	6574	188.45	1.15	RF	137	4P
695	52	2.04	2.40				8.20	6090	174.40	1.25			
765	48	1.86	2.50				9.20	5453	156.30	1.40			
883	41	1.61	2.60				10.00	4921	141.12	1.55			
1015	36	1.40	2.80										
							11	4475	128.10	1.70	R	137	4P
538	67	2.64	0.95	RX	57	4P	13	3971	113.72	1.90	RF	137	4P
599	61	2.37	1.10	RXF	57	4P	14	3601	103.20	2.10			
696	52	2.04	1.25				16	3097	88.70	2.50			
740	49	1.92	1.35				18	2822	80.91	2.70			
859	42	1.65	1.55				19	2565	73.49	3.00			
962	38	1.48	1.70				22	2271	65.20	3.30			
1125	32	1.26	1.80				24	2061	59.17	3.70			
							28	1777	50.86	4.30			
5.5KW													
2.20	21756	656	0.80	R	167 R97	4P	11	4456	127.68	0.90	R	107	4P
2.50	19012	579	0.95	RF	167 R97	4P	12	4038	115.63	1.00	RF	107	4P
2.80	16660	503	1.05				14	3582	102.53	1.15			
3.30	14210	432	1.25				15	3230	92.70	1.25			
3.80	12446	376	1.40				18	2746	78.57	1.50			
4.30	11074	335	1.60				20	2546	72.88	1.60			
4.70	9996	303	1.75				22	2290	65.60	1.80			
5.10	9173	279	1.90				24	2071	59.41	1.95			
							27	1834	52.68	2.20			
							30	1663	47.63	2.50			
							35	1406	40.37	2.90			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
5.5KW						5.5KW							
17	2898	83.15	1.00	R	97	4P	97	518	14.77	0.80	R	57	4P
20	2518	72.17	1.15	RF	97	4P	103	485	13.95	0.85	RF	57	4P
22	2271	65.21	1.25				120	413	11.88	0.95			
24	2090	59.92	1.35				132	375	10.79	1.00			
27	1853	53.21	1.55										
30	1663	47.58	1.70				153	328	9.35	1.10	R	57	4P
33	1492	42.78	1.90				179	280	7.97	1.20	RF	57	4P
39	1292	37.13	2.20				190	261	7.53	1.25			
43	1159	33.25	2.40				223	223	6.41	1.40			
52	960	27.58	2.60				246	204	5.82	1.50			
							283	176	5.05	1.65			
45	1121	32.05	2.20	R	97	4P	326	153	4.39	1.75			
53	950	27.19	2.60	RF	97	4P							
57	874	25.03	3.10				295	169	4.85	0.85	R	57	4P
64	779	22.37	3.30				330	151	4.34	0.90	RF	57	4P
71	703	20.14	3.50				386	129	3.70	1.04			
78	637	18.24	3.70										
88	565	16.17	4.00				216	233	6.63	1.90	RX	107	4P
							255	195	5.61	2.20	RXF	107	4P
30	1663	47.58	0.90	R	87	4P	276	181	5.19	3.70			
34	1454	41.74	1.00	RF	87	4P	307	162	4.65	4.10			
39	1283	36.84	1.15										
44	1140	32.68	1.30				247	204	5.79	1.95	RX	97	4P
51	969	27.88	1.45				291	171	4.91	2.20	RXF	97	4P
							316	158	4.52	3.60			
51	969	27.84	1.50	R	87	4P	354	142	4.04	4.00			
61	817	23.40	1.80	RF	87	4P	393	127	3.64	4.50			
66	751	21.51	1.90				434	115	3.30	4.90			
75	665	19.10	2.10				489	102	2.92	5.50			
84	594	17.08	2.20				541	92	2.64	6.10			
93	537	15.35	2.40				638	78	2.24	7.20			
107	466	13.33	2.60				731	68	1.96	7.90			
120	418	11.93	2.80				874	57	1.64	8.40			
144	347	9.90	3.30				1010	49	1.42	8.80			
156	318	9.14	3.60										
174	285	8.22	3.80				318	157	4.50	1.75	RX	87	4P
200	247	7.13	4.10				378	132	3.78	2.20	RXF	87	4P
							411	122	3.48	3.20			
76	656	18.80	1.15	R	77	4P	463	107	3.09	3.60			
80	622	17.82	1.20	RF	77	4P	518	96	2.76	4.00			
92	546	15.60	1.30				576	86	2.48	4.50			
							664	75	2.15	4.90			
102	489	14.05	1.40	R	77	4P							
116	432	12.33	1.50	RF	77	4P	440	113	3.25	1.50	RX	77	4P
131	380	10.88	1.65				464	107	3.08	1.70	RXF	77	4P
148	337	9.64	1.80				530	94	2.70	2.20			
166	299	8.59	2.00				589	85	2.43	2.40			
185	271	7.74	2.20				671	74	2.13	2.60			
211	238	6.79	2.30				761	66	1.88	2.70			
239	209	5.99	2.50				858	58	1.67	2.80			
269	185	5.31	2.60				1005	49	1.42	3.00			
91	551	15.79	0.95	R	67	4P	563	88	2.54	1.25	RX	67	4P
96	523	14.91	1.00	RF	67	4P	596	84	2.40	1.40	RXF	67	4P
113	442	12.70	1.10				700	71	2.04	1.80			
124	404	11.54	1.20				770	65	1.86	1.85			
143	347	10.00	1.30				889	56	1.61	1.95			
164	304	8.70	1.40				1020	48	1.40	2.00			
183	271	7.79	1.35										
194	257	7.36	1.35				700	71	2.04	0.90	RX	57	4P
228	219	6.27	1.45				745	67	1.92	1.00	RXF	57	4P
251	200	5.70	1.50				866	58	1.65	1.15			
290	172	4.93	1.60				969	51	1.48	1.25			
333	150	4.29	1.70				1130	44	1.26	1.34			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
7.5KW						7.5KW							
2.80	22932	503	0.75	R	167 R97	4P	46	1463	30.77	2.80	R	107	4P
3.30	19502	432	0.90	RF	167 R97	4P	52	1311	27.58	3.10	RF	107	4P
3.80	17150	376	1.05				57	1188	24.90	3.50			
4.30	15288	335	1.15				63	1074	22.62	3.80			
4.70	13720	303	1.30										
5.10	12642	279	1.40				24	2850	59.92	1.00	R	97	4P
							27	2537	53.21	1.15	RF	97	4P
4.40	14896	326	0.85	R	147 R87	4P	30	2261	47.58	1.25			
5.10	12740	280	1.00	RF	147 R87	4P	33	2033	42.78	1.40			
5.80	11270	247	1.15				39	1767	37.13	1.60			
6.70	9741	214	1.30										
7.60	8614	189	1.50				43	1587	33.25	1.75	R	97	4P
9.00	7242	159	1.75				52	1311	27.58	1.95	RF	97	4P
3.10	21755	229.71	0.80	R	167	8P	45	1530	32.05	1.60	R	97	4P
3.90	17670	186.93	0.95	RF	167	8P	53	1292	27.19	1.90	RF	97	4P
4.70	14440	153.07	1.20				57	1188	25.03	2.30			
5.10	13205	139.98	1.30				64	1064	22.37	2.40			
5.90	11495	121.81	1.50				71	960	20.14	2.60			
							78	865	18.24	2.70			
4.20	16245	229.71	1.05	R	167	6P							
5.10	13205	186.93	1.30	RF	167	6P	39	1748	36.84	0.85	R	87	4P
							44	1558	32.66	0.95	RF	87	4P
6.30	10830	153.07	1.60	R	167	6P	51	1330	27.88	1.05			
6.90	9880	139.98	1.70	RF	167	6P							
7.90	8636	121.81	2.00				51	1321	27.84	1.10	R	87	4P
8.90	7619	107.49	2.20				61	1112	23.40	1.30	RF	87	4P
10.00	6603	93.19	2.60				66	1026	21.51	1.40			
12.00	5881	82.91	2.90				75	912	19.10	1.50			
13.00	5225	73.70	3.30				84	817	17.08	1.65			
14.00	4779	67.40	3.60				93	732	15.35	1.75			
							107	637	13.33	1.90			
4.40	15390	163.31	0.80	R	147	8P	120	570	11.93	2.10			
4.90	13870	146.91	0.90	RF	147	8P	144	470	9.90	2.40			
6.00	11305	119.86	1.10				156	437	9.14	2.60			
6.60	10355	109.31	1.20				174	390	8.22	2.80			
							200	337	7.13	3.00			
5.90	11590	163.31	1.05	R	147	6P	224	304	6.39	3.20			
6.50	10450	146.91	1.20	RF	147	6P	270	252	5.30	3.40			
8.00	8493	119.86	1.45										
							76	893	18.80	0.85	R	77	4P
8.80	7743	109.31	1.60	R	147	6P	80	846	17.82	0.85	RF	77	4P
10.00	6707	94.60	1.85	RF	147	6P	92	741	15.60	0.95			
12.00	5919	83.47	2.10				102	670	14.05	1.00			
							116	584	12.33	1.10			
7.60	8968	188.45	0.85	R	137	4P	131	518	10.88	1.20			
8.20	8294	174.40	0.90	RF	137	4P	148	461	9.64	1.30			
9.20	7439	156.31	1.00				166	409	8.59	1.45			
10.00	6717	141.12	1.15				185	371	7.74	1.55			
							211	323	6.79	1.70			
11	6099	128.18	1.25	R	137	4P	239	285	5.99	1.80			
13	5415	113.72	1.40	RF	137	4P	269	252	5.31	1.90			
14	4912	103.20	1.55										
16	4218	88.70	1.80				113	603	12.70	0.80	R	67	4P
18	3848	80.91	1.95				124	551	11.54	0.85	RF	67	4P
19	3496	73.49	2.20				143	475	10.00	0.95			
22	3107	65.20	2.50				164	413	8.70	1.00			
24	2812	59.17	2.70				183	371	7.79	0.95			
28	2423	50.86	3.10				194	352	7.36	1.00			
							228	299	6.27	1.05			
15	4408	92.07	0.95	R	107	4P	251	271	5.70	1.10			
18	3743	78.57	1.10	RF	107	4P	290	233	4.93	1.15			
20	3468	72.88	1.20				333	204	4.29	1.25			
22	3126	65.60	1.30										
24	2831	59.41	1.45										
27	2508	52.68	1.65										
30	2271	47.63	1.80										
35	1919	40.37	2.10										
41	1682	35.26	2.40										
48	1406	29.49	2.90										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
7.5KW						11KW							
179	380	7.97	0.90	R	57	4P	5.10	19475	186.93	0.90	R	167	4P
190	356	7.53	0.95	RF	57	4P	6.30	15865	153.07	1.05	RF	167	4P
223	304	6.41	1.05				6.90	14535	139.98	1.20			
246	276	5.82	1.10				7.90	12635	121.81	1.35			
283	242	5.05	1.20										
326	209	4.39	1.25				6.30	15960	229.71	1.05	R	167	4P
							7.70	12920	186.93	1.30	RF	167	4P
216	314	6.63	1.40	RX	107	4P							
255	266	5.61	1.60	RXF	107	4P	9.40	10640	153.07	1.60	R	167	4P
276	247	5.19	2.70				10.00	9690	139.98	1.75	RF	167	4P
307	223	4.65	3.00				12.00	8446	121.81	2.00			
340	200	4.20	3.90				13.00	7448	107.49	2.30			
							15.00	6460	93.19	2.70			
247	276	5.79	1.45	RX	97	4P	17.00	5748	82.91	3.00			
291	233	4.91	1.60	RXF	97	4P							
316	214	4.52	2.60				6.50	15295	146.91	0.80	R	147	4P
354	195	4.04	2.90				8.00	12445	119.86	1.00	RF	147	4P
393	173	3.64	3.30				8.80	11400	109.31	1.10			
434	157	3.30	3.60				10.00	9880	94.60	1.25			
489	139	2.92	4.10				12.00	8674	83.47	1.40			
318	214	4.50	1.30	RX	87	4P	8.80	11305	163.31	1.10	R	147	4P
378	180	3.78	1.60	RXF	87	4P	9.80	10165	146.91	1.20	RF	147	4P
411	165	3.48	2.30				12.00	8303	119.86	1.50			
463	147	3.09	2.60										
518	131	2.76	2.90				13	7572	109.31	1.65	R	147	4P
576	118	2.48	3.30				15	6555	94.60	1.90	RF	147	4P
664	103	2.15	3.60				17	5786	83.47	2.10			
741	92	1.93	3.70				20	4997	72.09	2.50			
894	76	1.60	3.90				22	4646	66.99	2.70			
1030	67	1.39	4.20				24	4237	61.09	2.90			
							27	3667	52.87	3.40			
440	155	3.25	1.10	RX	77	4P							
464	146	3.08	1.25	RXF	77	4P	10	9785	141.12	0.80	R	137	4P
530	128	2.70	1.60				11	8883	128.18	0.85	RF	137	4P
589	116	2.43	1.75				13	7885	113.72	0.95			
671	102	2.13	1.85				14	7154	103.20	1.05			
761	89	1.88	2.00				16	6147	88.70	1.25			
858	80	1.67	2.10				18	5605	80.91	1.35			
1005	67	1.42	2.20				20	5092	73.49	1.50			
							22	4522	65.20	1.70			
563	121	2.54	0.95	RX	67	4P	24	4104	59.17	1.85			
596	114	2.40	1.00	RXF	67	4P	28	3525	50.86	2.20			
700	97	2.04	1.30				32	3078	44.39	2.50			
770	88	1.86	1.35				38	2613	37.65	2.90			
889	77	1.61	1.40				44	2280	32.91	3.30			
1020	67	1.40	1.50										
11KW													
5.00	18687	287	0.93	R	167 R107	4P	22	4551	65.60	0.90	R	107	4P
5.30	17836	270	1.00	RF	167 R107	4P	24	4114	59.41	1.00	RF	107	4P
6.30	15092	229	1.15				27	3648	52.68	1.10			
7.20	13132	200	1.35				30	3297	47.63	1.25			
8.70	10812	165	1.64				36	2793	40.37	1.45			
							41	2442	35.26	1.65			
							49	2043	29.49	2.00			
5.00	19600	291	0.90	R	167 R107	4P	47	2128	30.77	1.90	R	107	4P
				RF	167 R107	4P	52	1910	27.58	2.10	RF	107	4P
							58	1729	24.90	2.40			
4.30	22344	335	0.80	R	167 R97	4P	64	1568	22.62	2.60			
4.80	20090	303	0.90	RF	167 R97	4P	72	1387	20.07	2.90			
5.20	18522	279	0.95				79	1264	18.21	3.20			
5.80	16464	247	0.75	R	147 R87	4P	34	2964	42.78	0.95	R	97	4P
6.70	14210	214	0.90	RF	147 R87	4P	39	2575	37.13	1.10	RF	97	4P
7.60	12642	189	1.00				43	2309	33.25	1.20			
9.10	10584	159	1.20				52	1910	27.56	1.35			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	
11KW							11KW						
58	1739	25.03	1.55	R	97	4P	593	168	2.43	1.20	RX	77	4P
64	1549	22.37	1.65	RF	97	4P	676	147	2.13	1.30	RXF	77	4P
71	1397	20.14	1.80				766	130	1.88	1.35			
							864	116	1.67	1.40			
79	1264	18.24	1.90	R	97	4P	1010	99	1.42	1.50			
89	1121	16.17	2.00	RF	97	4P							
98	1017	14.62	2.20				15KW						
116	855	12.39	2.40				6.4	20384	229.00	0.85	R	167 R107	4P
133	751	10.83	2.70				7.3	17836	200.00	1.00	RF	167 R107	4P
155	641	8.29	3.00				8.8	14639	165.00	1.23			
172	580	8.39	3.30										
202	494	7.12	3.90				6.4	20482	227.00	0.85	R	167 R107	4P
232	432	6.21	4.20				7.4	17836	198.00	1.00	RF	167 R107	4P
67	1492	21.51	0.95	R	87	4P	6.3	21470	153.07	0.80	R	167	6P
75	1321	19.10	1.05	RF	87	4P	6.9	19665	139.98	0.85	RF	167	6P
84	1188	17.08	1.10				8	17100	121.81	1.00			
							9	15105	107.49	1.15			
94	1064	15.35	1.20	R	87	4P							
108	922	13.33	1.30	RF	87	4P	6.4	21375	229.71	0.80	R	167	4P
121	827	11.93	1.40				7.8	17385	186.93	1.00	RF	167	4P
145	684	9.90	1.65										
158	632	9.14	1.80				9.5	14250	153.07	1.20	R	167	4P
175	570	8.22	1.95				10	13015	139.98	1.30	RF	167	4P
202	494	7.13	2.10				12	11400	121.81	1.50			
225	442	6.39	2.20				14	9975	107.49	1.70			
272	366	5.30	2.40				16	8683	93.19	1.95			
							18	7724	82.91	2.20			
132	755	10.88	0.85	R	77	4P	20	6869	73.70	2.50			
149	670	9.64	0.90	RF	77	4P	22	6280	67.40	2.70			
186	537	7.74	1.10	R	77	4P	8.9	15295	109.31	0.80	R	147	6P
212	470	6.79	1.15	RF	77	4P	10	13300	94.60	0.90	RF	147	6P
240	413	5.99	1.25				12	11685	83.47	1.05			
271	371	5.31	1.30				13	10070	72.09	1.20			
							14	9396	66.99	1.30			
277	361	5.19	1.85	R	107	4P							
310	323	4.65	2.10	RF	107	4P	8.9	15200	163.31	0.80	R	147	4P
343	290	4.20	2.70				9.9	13680	146.91	0.90	RF	147	4P
377	266	3.81	3.00				12	11210	119.68	1.10			
425	233	3.38	3.40				13	10165	109.31	1.20			
469	214	3.07	3.70										
545	183	2.64	4.30				15	8816	94.60	1.40	R	147	4P
							17	7781	83.47	1.60	RF	147	4P
318	314	4.52	1.80	RX	97	4P	20	6717	72.09	1.85			
356	280	4.04	2.00	RXF	97	4P	22	6242	66.99	2.00			
396	252	3.64	2.20				24	5691	61.09	2.20			
437	228	3.30	2.50				28	4931	52.87	2.50			
493	204	2.92	2.80				31	4351	46.65	2.80			
545	183	2.64	3.10										
643	155	2.24	3.60				14	9595	103.20	0.80	R	137	4P
736	136	1.96	4.00				16	8265	88.70	0.90	RF	137	4P
880	113	1.64	4.20				18	7543	80.91	1.00			
1015	98	1.42	4.40				20	6850	73.49	1.10			
414	242	3.48	1.60	RX	87	4P	22	6080	65.20	1.25	R	137	4P
466	214	3.09	1.80	RXF	87	4P	25	5510	59.17	1.40	RF	137	4P
522	190	2.76	2.00				29	4741	50.86	1.60			
580	172	2.48	2.20				33	4142	44.39	1.85			
							39	3506	37.65	2.20			
669	149	2.15	2.50	RX	87	4P	44	3069	32.91	2.50			
747	134	1.93	2.50	RXF	87	4P	53	2526	27.11	2.90			
900	111	1.60	2.70										
1035	97	1.39	2.90				31	4437	47.63	0.90	R	107	4P
							36	3762	40.37	1.10	RF	107	4P
							41	3287	35.26	1.25			
							50	2746	29.49	1.50			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
15KW						15KW							
47	2869	30.77	1.40	R	107	4P	757	180	1.93	1.90	RX	87	4P
53	2575	27.58	1.60	RF	107	4P	913	149	1.60	2.00	RXF	87	4P
59	2318	24.90	1.75				1050	130	1.39	2.10			
65	2109	22.62	1.95				18.5KW						
73	1872	20.07	2.20				7.8	21375	186.93	0.80	R	167	4P
80	1701	18.21	2.40				9.6	17575	153.07	1.00	RF	167	4P
93	1463	15.65	2.80				10	16055	139.98	1.05			
107	1273	13.66	3.20				12	13965	121.81	1.25			
53	2575	27.58	1.00	R	97	4P							
				RF	97	4P							
58	2337	25.03	1.15	R	97	4P	14	12350	107.49	1.40	R	167	4P
65	2090	22.37	1.25	RF	97	4P	16	10640	93.19	1.60	RF	167	4P
72	1881	20.14	1.30				18	9500	82.19	1.80			
80	1701	18.24	1.40				20	8446	73.70	2.00			
90	1511	16.17	1.50				22	7724	67.40	2.20			
100	1359	14.62	1.60				25	6717	58.65	2.60			
118	1159	12.39	1.80				12	13775	119.86	0.90	R	147	4P
135	1007	10.83	1.95				13	12540	109.31	1.00	RF	147	4P
157	865	9.29	2.20				15	10830	94.60	1.15			
174	779	8.39	2.50				18	9595	83.47	1.30	R	147	4P
205	665	7.12	2.90				20	8256	72.09	1.50	RF	147	4P
235	580	6.21	3.10				22	7676	66.99	1.60			
85	1596	17.08	0.85	R	87	4P	24	7002	61.09	1.75			
95	1435	15.35	0.90	RF	87	4P	28	6061	52.87	2.00			
110	1245	13.33	1.00				31	5349	46.65	2.30			
122	1112	11.93	1.05				36	4617	40.29	2.70			
147	922	9.90	1.20	R	87	4P	18	9272	80.91	0.80	R	137	4P
160	855	9.14	1.35	RF	87	4P	20	8417	73.49	0.90	RF	137	4P
178	770	8.22	1.45				22	7467	65.20	1.00			
205	665	7.13	1.55				25	6783	59.17	1.10			
229	594	6.39	1.65				29	5824	50.86	1.30	R	137	4P
275	494	5.30	1.75				33	5083	44.39	1.50	RF	137	4P
281	485	5.19	1.35	RX	107	4P	39	4313	37.65	1.75			
314	432	4.65	1.50	RXF	107	4P	45	3772	32.91	2.00			
348	390	4.20	2.00				54	3109	27.11	2.40			
383	356	3.81	2.20				50	3392	29.57	2.20	R	137	4P
431	314	3.38	2.50				61	2756	24.12	2.80	RF	137	4P
475	285	3.07	2.80				67	2518	22.00	3.00			
553	247	2.64	3.20				77	2185	19.04	3.50			
634	214	2.30	3.70				87	1929	16.80	4.00			
747	182	1.95	4.00				36	4627	40.37	0.90	R	107	4P
855	160	1.71	4.20				42	4038	35.26	1.00	RF	107	4P
1031	132	1.41	4.70				50	3382	29.49	1.20			
323	423	4.52	1.35	RX	97	4P	59	2850	24.90	1.45	R	107	4P
361	375	4.04	1.50	RXF	97	4P	65	2594	22.62	1.60	RF	107	4P
401	337	3.64	1.65				73	2299	20.07	1.80			
443	309	3.30	1.85				80	2090	18.21	1.95			
499	271	2.92	2.10				94	1796	15.65	2.30			
552	247	2.64	2.30				107	1568	13.66	2.60			
652	209	2.24	2.70				126	1330	11.59	3.10			
746	182	1.96	3.00				145	1159	10.13	3.50			
892	153	1.64	3.20				186	903	7.86	3.10			
1030	132	1.42	3.30				220	760	6.66	3.70			
420	323	3.48	1.20	RX	87	4P							
473	290	3.09	1.35	RXF	87	4P							
529	257	2.76	1.50										
588	233	2.48	1.65										
678	200	2.15	1.80										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
18.5KW						22KW							
73	2309	20.14	1.05	R	97	4P	22	9130	66.99	1.35	R	147	4P
80	2090	18.24	1.15	RF	97	4P	24	8322	61.09	1.50	RF	147	4P
91	1853	16.17	1.25				28	7201	52.87	1.70			
100	1672	14.62	1.30				31	6356	46.65	1.95			
118	1416	12.39	1.45				36	5491	40.29	2.30			
135	1245	10.83	1.60				41	4855	35.64	2.50			
158	1064	9.29	1.80				49	4085	29.95	3.00			
175	960	8.39	2.00										
206	817	7.12	2.30				22	8883	65.20	0.85	R	137	4P
236	713	6.21	2.50				25	8056	59.17	0.95	RF	137	4P
282	594	5.20	2.80				29	6926	50.86	1.10			
326	518	4.50	3.00				33	6052	44.39	1.25			
110	1530	13.33	0.80	R	87	4P	39	5130	37.56	1.50	R	137	4P
123	1368	11.93	0.85	RF	87	4P	45	4484	32.91	1.70	RF	137	4P
148	1131	9.90	1.00				54	3692	27.11	1.95			
160	1045	9.14	1.10										
178	941	8.22	1.15				50	4028	29.57	1.85	R	137	4P
205	817	7.13	1.25				61	3287	24.12	2.30	RF	137	4P
229	732	6.39	1.30				67	2993	22.00	2.50			
276	608	5.30	1.40				77	2594	19.04	2.90			
349	480	4.20	1.65	R	107	4P	87	2290	16.80	3.30	R	137	4P
384	437	3.81	1.80	RF	107	4P	101	1976	14.51	3.90	RF	137	4P
433	390	3.38	2.00				114	1748	12.83	4.40			
477	352	3.07	2.20										
555	304	2.64	2.60				42	4807	35.26	0.85	R	107	4P
636	266	2.30	3.00				50	4019	29.49	1.00	RF	107	4P
750	223	1.95	3.30										
858	195	1.71	3.40				59	3392	24.90	1.20	R	107	4P
1037	162	1.41	3.80				65	3078	22.62	1.35	RF	107	4P
							73	2736	20.07	1.50			
402	418	3.64	3.64	RX	97	4P	80	2480	18.21	1.65	R	107	4P
444	380	3.30	3.30	RXF	97	4P	94	2128	15.65	1.90	RF	107	4P
501	337	2.92	2.92				107	1862	13.66	2.20			
554	304	2.64	2.64				126	1577	11.59	2.60			
654	257	2.24	2.24				145	1378	10.13	3.00			
749	223	1.96	1.96				176	1138	8.34	3.60			
895	187	1.64	1.64				186	1074	7.86	2.60			
1035	162	1.42	1.42				220	912	6.66	3.10			
							252	798	5.82	3.60			
531	318	2.76	2.76	RX	87	4P							
590	285	2.48	2.48	RXF	87	4P	73	2746	20.14	0.90	R	97	4P
680	247	2.15	2.15				80	2489	18.24	0.95	RF	97	4P
760	223	1.93	1.93				91	2204	16.17	1.05			
916	183	1.60	1.60				100	1995	14.62	1.10			
1055	160	1.39	1.39										
22KW						22KW							
9.6	20900	153.07	0.80	R	167	4P	118	1691	12.39	1.25	R	97	4P
10	19095	139.98	0.90	RF	167	4P	135	1473	10.83	1.35	RF	97	4P
12	16625	121.81	1.05				158	1264	9.29	1.50			
							175	1140	8.39	1.70			
14	14630	107.49	1.15	R	167	4P	206	969	7.12	1.95			
16	12730	93.19	1.35	RF	167	4P	236	846	6.21	2.10			
18	11305	82.91	1.50				282	708	5.20	2.40			
20	10070	73.70	1.70				326	613	4.50	2.50			
22	9187	67.40	1.85										
25	7990	58.65	2.10				148	1349	9.90	0.85	R	87	4P
28	7049	51.76	2.40				160	1245	9.14	0.90	RF	87	4P
33	6109	44.87	2.80				178	1121	8.22	1.00			
							205	969	7.13	1.05			
13	14915	109.31	0.85	R	147	4P	229	874	6.39	1.10			
15	12920	94.60	0.95	RF	147	4P	276	722	5.30	1.20			
18	11400	83.47	1.10										
20	9785	72.09	1.25										

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
22KW						30KW							
349	570	4.20	1.40	RX	107	4P	61	4465	24.12	1.70	R	137	4P
384	518	3.81	1.50	RXF	107	4P	67	4076	22.00	1.85	RF	137	4P
433	461	3.38	1.70		77	3525	19.04	2.20					
477	418	3.07	1.90		88	3107	16.80	2.40					
555	361	2.64	2.20										
636	314	2.30	2.50	RX	107	4P	101	2689	14.51	2.80	R	137	4P
750	266	1.95	2.70	RXF	107	4P	115	2375	12.83	3.20	RF	137	4P
858	233	1.71	2.90				136	1995	10.79	3.80			
1037	191	1.41	3.20				194	1406	7.59	3.50			
							230	1178	6.38	4.10			
402	494	3.64	1.15	RX	97	4P	73	3715	20.07	1.10	R	107	4P
444	451	3.30	1.25	RXF	97	4P	81	3373	18.21	1.20	RF	107	4P
501	399	2.92	1.40				94	2898	15.65	1.40			
554	361	2.64	1.55				108	2527	13.66	1.60			
654	304	2.24	1.85				127	2147	11.59	1.90			
749	266	1.96	2.00				145	1872	10.13	2.20			
895	223	1.64	2.20				177	1546	8.34	2.70			
1035	195	1.42	2.20				187	1454	7.86	1.95			
							221	1235	6.66	2.30			
531	375	2.76	1.00	RX	87	4P	252	1083	5.82	2.60			
590	337	2.48	1.15	RXF	87	4P	306	890	4.80	3.10			
680	295	2.15	1.25										
760	261	1.93	1.30				101	2708	14.62	0.80	R	97	4P
916	219	1.60	1.35				119	2299	12.39	0.90	RF	97	4P
1055	190	1.39	1.45				136	2005	10.83	1.00			
							158	1720	9.29	1.10			
							175	1558	8.39	1.25			
30KW													
14	19855	107.49	0.85	R	167	4P	207	1321	7.21	1.45	R	97	4P
16	17290	93.19	1.00	RF	167	4P	237	1150	6.21	1.55	RF	97	4P
18	15390	82.91	1.10				283	960	5.20	1.75			
							327	836	4.50	1.85			
20	13680	73.70	1.25	R	167	4P	434	627	3.38	1.25	RX	107	4P
22	12445	67.40	1.35	RF	167	4P	479	570	3.07	1.40	RXF	107	4P
25	10830	58.65	1.55				557	489	2.64	1.60			
28	9595	41.76	1.80				638	428	2.30	1.85			
33	8303	44.87	2.10				752	361	1.95	2.00			
37	7391	39.92	2.30				860	318	1.71	2.10			
43	6375	34.41	2.70				1042	260	1.41	2.30			
53	5178	27.96	3.30										
62	4389	23.71	3.90										
18	15485	83.47	0.80	R	147	4P	503	542	2.92	1.05	RX	97	4P
20	13300	72.09	0.95	RF	147	4P	556	489	2.64	1.15	RXF	97	4P
22	12445	66.99	1.00				656	413	2.24	1.35			
24	11305	61.09	1.10				751	361	1.96	1.50			
							898	304	1.64	1.60			
28	9785	52.87	1.25	R	147	4P	1040	261	1.42	1.65			
32	8636	46.65	1.45	RF	147	4P							
36	7485	40.29	1.65				37KW						
41	6603	35.64	1.85				16	21280	93.19	0.80	R	167	4P
49	5548	29.95	2.20				18	18905	82.91	0.90	RF	167	4P
61	4475	24.19	2.50				20	16815	73.70	1.00			
							22	15390	67.40	1.10			
72	3781	20.44	3.00	R	147	4P	25	13395	58.65	1.30			
82	3335	18.04	3.00	RF	147	4P	28	11780	51.76	1.45			
94	2898	15.64	4.30				33	10260	44.87	1.65			
							37	9120	39.92	1.90			
29	9415	50.86	0.80	R	137	4P	43	7857	34.41	2.20			
33	8218	44.39	0.90	RF	137	4P	53	6384	27.96	2.70			
39	6973	37.65	1.10										
45	6090	32.91	1.25				48	7011	30.71	1.35	R	167	4P
54	5016	27.11	1.44				60	5605	24.57	2.40	RF	167	4P
							67	4988	21.85	2.50			
							77	4351	19.03	3.50			
							87	3876	16.98	3.70			

Quick Selection R series

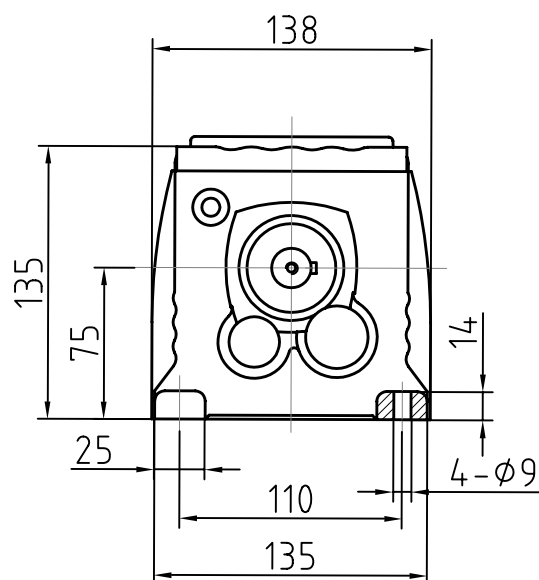
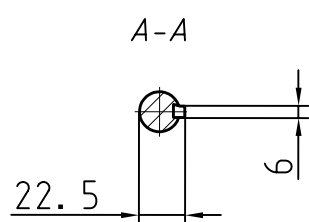
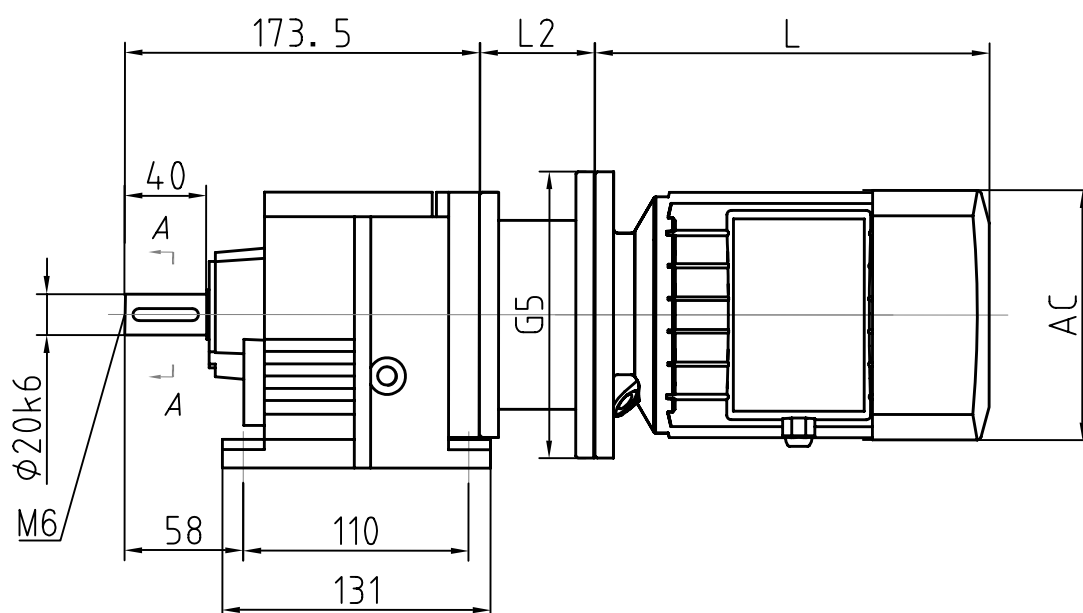
Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
37KW						45KW							
22	15295	66.99	0.80	R	147	4P	48	8531	30.71	1.10	R	167	4P
24	13965	61.09	0.90	RF	147	4P	60	6821	24.57	1.95	RF	167	4P
28	12065	52.87	1.00				67	6071	21.85	2.00			
							77	5282	19.03	2.90			
32	10640	46.65	1.15	R	147	4P	87	4712	16.98	3.00			
36	9196	40.29	1.35	RF	147	4P							
41	8142	35.64	1.50				28	14725	52.87	0.85	R	147	4P
49	6840	29.95	1.80				32	12920	46.65	0.95	RF	147	4P
61	5520	24.19	2.10				36	11210	40.29	1.10			
							41	9880	35.64	1.25			
72	4665	20.44	2.40	R	147	4P	49	8322	29.95	1.50			
82	4123	18.04	2.40	RF	147	4P	61	6717	24.19	1.70			
94	3572	15.64	3.50										
106	3173	13.91	3.80	R	147	4P	72	5672	20.44	2.00	R	147	4P
				RF	147	4P	82	5007	18.04	2.00	RF	147	4P
39	8598	37.65	0.90	R	137	4P	94	4342	15.64	2.80			
45	7515	32.91	1.00	RF	137	4P	106	3867	13.91	3.10			
54	6191	27.11	1.18				123	3335	11.99	3.70			
							203	2014	7.25	4.10			
61	5510	24.12	1.40	R	137	4P	45	9139	32.91	0.85	R	137	4P
67	5026	22.00	1.50	RF	137	4P	54	7524	27.11	0.98	RF	137	4P
77	4351	19.04	1.75				61	6698	24.12	1.15	R	137	4P
88	3838	16.80	2.00				67	6109	22.00	1.25	RF	137	4P
							77	5292	19.04	1.45			
101	3316	14.51	2.30	R	137	4P	88	4665	16.80	1.65			
115	2928	12.83	2.60	RF	137	4P							
136	2461	10.79	3.10				101	4028	14.51	1.90	R	137	4P
189	1986	8.71	3.70				115	3563	12.83	2.10	RF	137	4P
194	1729	7.59	2.80				136	2993	10.79	2.50			
230	1454	6.38	3.30				169	2423	8.71	3.10			
285	1178	5.15	3.70				194	2109	7.59	2.30			
							230	1767	6.38	2.70			
73	4579	20.07	0.90	R	107	4P	285	1435	5.15	3.10			
81	4161	18.21	1.00	RF	107	4P							
94	3572	15.65	1.15				94	4351	15.65	0.95	R	107	4P
108	3116	13.66	1.30				108	3791	13.66	1.10	RF	107	4P
127	2651	11.59	1.55				127	3221	11.59	1.25			
145	2309	10.13	1.75				145	2812	10.13	1.45			
177	1907	8.34	2.20				177	2314	8.34	1.74			
187	1796	7.86	1.55				187	2185	7.86	1.30			
221	1520	6.66	1.85				221	1853	6.66	1.50			
252	1330	5.82	2.10				252	1615	5.82	1.75			
306	1094	4.80	2.60				306	1335	4.80	2.10			
434	770	3.38	1.00	RX	107	4P	434	941	3.38	0.85	R	107	4P
479	703	3.07	1.10	RXF	107	4P	479	855	3.07	0.90	RF	107	4P
557	603	2.64	1.30				557	732	2.64	1.10			
638	527	2.30	1.50				638	641	2.30	1.25			
752	447	1.95	1.65				752	542	1.95	1.35			
860	390	1.71	1.70				860	475	1.71	1.40			
1042	321	1.41	1.89				1042	391	1.41	1.58			
45KW						55KW							
20	20425	73.70	0.85	R	167	4P	25	19855	58.65	0.85	R	167	4P
22	18715	67.40	0.90	RF	167	4P	29	17480	51.76	1.00	RF	167	4P
25	16245	58.65	1.05				33	15200	44.87	1.15			
28	14345	51.76	1.20				37	13490	39.92	1.25			
							43	11685	34.41	1.45			
33	12445	44.87	1.35	R	167	4P	53	9462	27.96	1.80			
37	11115	39.92	1.55	RF	167	4P	62	8018	23.71	2.10			
43	9596	34.41	1.80										
53	7762	27.96	2.20				60	8313	24.57	1.60	R	167	4P
62	6584	23.71	2.60				68	7391	21.85	1.65	RF	167	4P
							77	6441	19.03	2.40			

Quick Selection R series

Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P	Output speed r/min	Output torque Nm	Ratio i	Service factor SF	Type	Pole P		
55KW						90KW							
87	5748	16.98	2.50	R	167	4P	37	22040	39.92	0.80	R	167	4P
102	4893	14.48	3.50	RF	167	4P	43	19000	34.41	0.90	RF	167	4P
123	4057	11.99	4.00				53	15390	27.96	1.10			
							62	13110	23.71	1.30			
32	15770	46.65	0.80	R	147	4P							
37	13585	40.29	0.90	RF	147	4P	60	13585	24.57	1.00	R	167	4P
41	12065	35.64	1.00				68	12065	21.85	1.00	RF	167	4P
49	10165	29.95	1.20				78	10545	19.03	1.45			
61	8180	24.19	1.40										
72	6916	20.44	1.65	R	147	4P	87	9367	16.98	1.50	R	167	4P
82	6099	18.04	1.65	RF	147	4P	102	7990	14.48	2.10	RF	167	4P
94	5292	15.64	2.30				123	6612	11.99	2.40			
106	4703	13.91	2.50				145	5643	10.24	2.90			
123	4057	11.99	3.00	R	147	4P	72	11305	20.44	1.00	R	147	4P
151	3297	9.74	3.80	RF	147	4P	82	9975	18.04	1.00	RF	147	4P
203	2451	7.25	3.40				95	8626	15.64	1.45			
250	1995	5.89	4.10				106	7676	13.91	1.55			
77	6441	19.04	1.20	R	137	4P	123	6612	11.99	1.85	R	147	4P
88	5681	16.80	1.35	RF	137	4P	152	5377	9.74	2.30	RF	147	4P
102	4912	14.51	1.55				179	4560	8.26	2.70			
							204	4000	7.25	2.10			
115	4342	12.83	1.75	R	137	4P	251	3249	5.89	2.50			
137	3648	10.79	2.10	RF	137	4P	296	2755	5.00	3.00			
169	2945	8.71	2.50				110KW						
194	2565	7.59	1.90				53	18810	27.96	0.90	R	167	4P
231	2157	6.38	2.30				63	15960	23.71	1.05	RF	167	4P
286	1739	5.15	2.50										
							78	12825	19.03	1.20	R	167	4P
75KW							87	11400	16.98	1.25	RF	167	4P
33	20615	44.87	0.85	R	167	4P	103	9690	14.48	1.75			
37	18335	39.92	0.95	RF	167	4P	124	8056	11.99	2.00			
43	15865	34.41	1.10				145	6878	10.24	2.40			
53	12825	27.96	1.35				132KW						
62	10925	23.71	1.55				63	19095	23.71	0.90	R	167	4P
										RF	167	4P	
60	11305	24.57	1.20	R	167	4P	78	15390	19.03	1.00	R	167	4P
68	10070	21.85	1.25	RF	167	4P	87	13680	16.98	1.05	RF	167	4P
78	8750	19.03	1.75				103	11685	14.48	1.45			
87	7809	16.98	1.85	R	167	4P	124	9690	11.99	1.65			
102	6650	14.48	2.60	RF	167	4P	145	8256	10.24	1.95			
123	5510	11.99	2.90				160KW						
145	4703	10.24	3.40				103	14155	14.48	1.20	R	167	4P
49	13775	29.95	0.90	R	147	4P	124	11685	11.99	1.40	RF	167	4P
61	11115	24.19	1.00	RF	147	4P	145	9975	10.24	1.60			
72	9396	20.44	1.20	R	147	4P							
82	8294	18.04	1.20	RF	147	4P							
95	7192	15.64	1.70										
106	6394	13.91	1.85										
123	5510	11.99	2.20	R	147	4P							
152	4475	9.74	2.80	RF	147	4P							
179	3800	8.26	3.30										
204	3335	7.25	2.50										
251	2708	5.89	3.00										
296	2299	5.00	3.60										

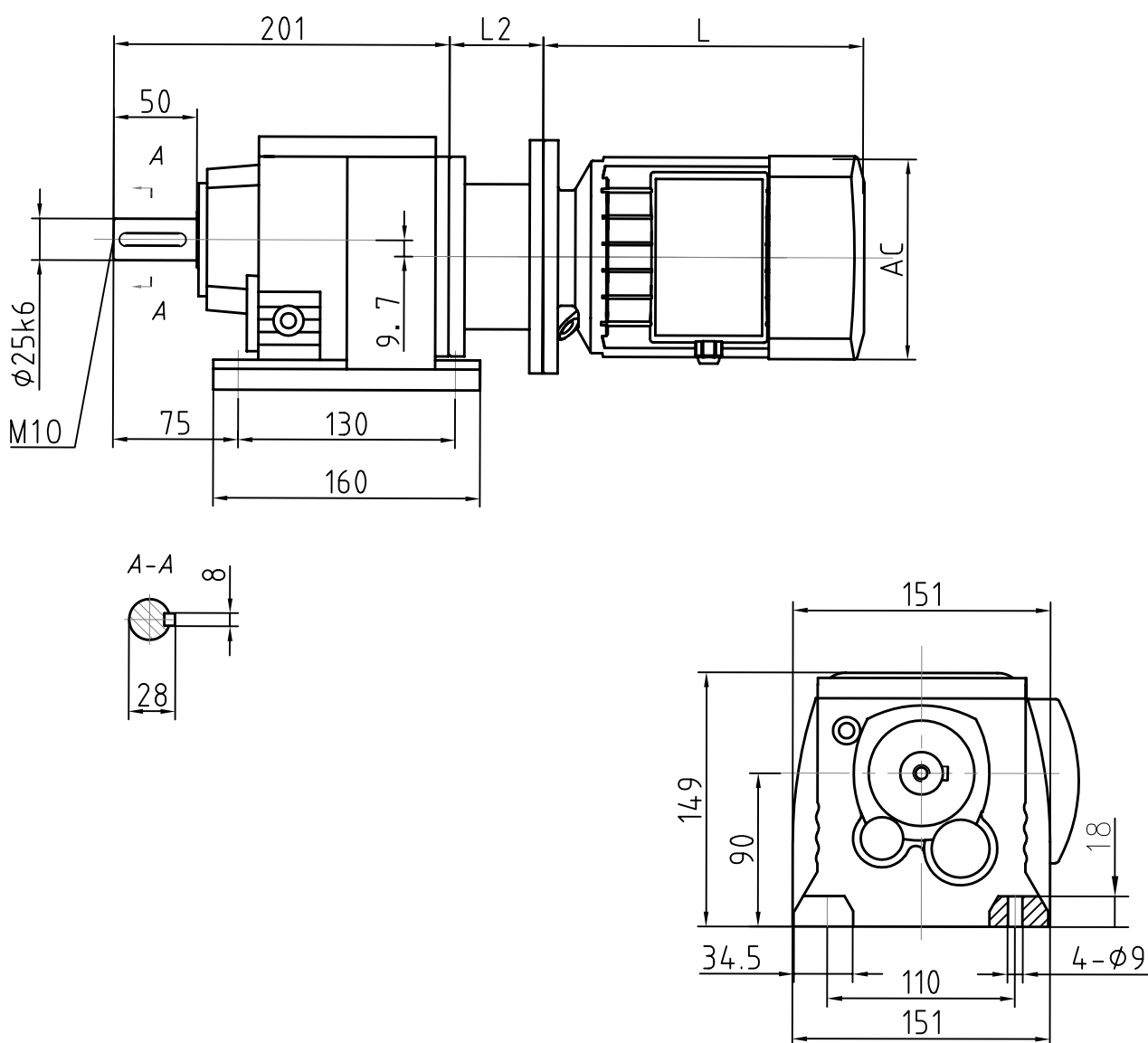
R17

Frame	63	71	80
Power/4P	0.18	0.25/0.37	0.55/0.75
L	220	245	278
AC	120	140	155
L2	56	57	72
G5	Ø140	Ø160	Ø200



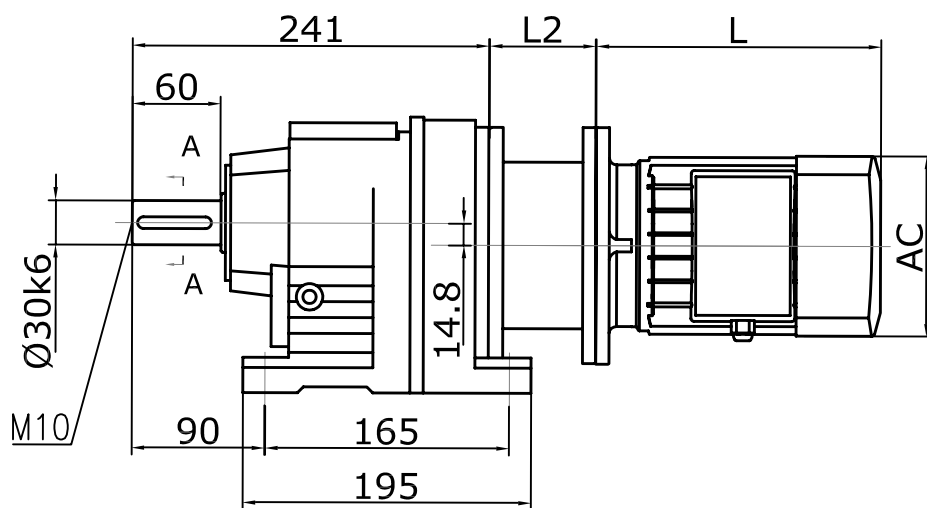
R37

Frame	63	71	80	90	100
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0
L	220	245	278	$\frac{304}{328}$	340
AC	120	140	155	175	195
L2	56	57	72	72	68
G5	Ø140	Ø160	Ø200	Ø200	Ø250

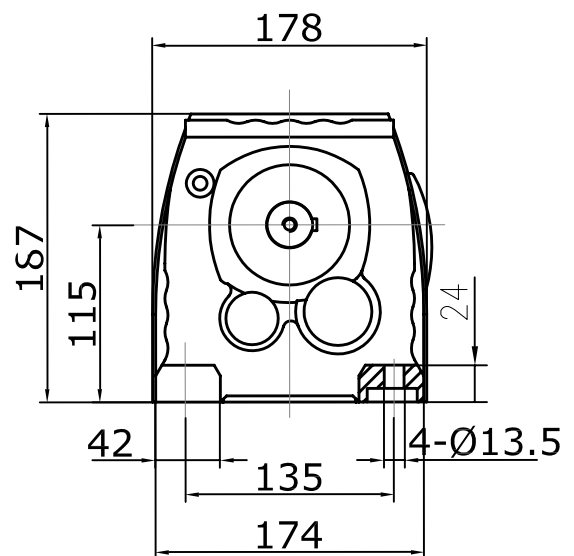
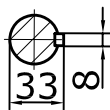


R47

Frame	63	71	80	90	100	112
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	1.1/1.5	4
L	220	245	278	$\frac{304}{328}$	350	380
AC	120	140	155	175	195	195
L2	56	57	72	72	68	68
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250

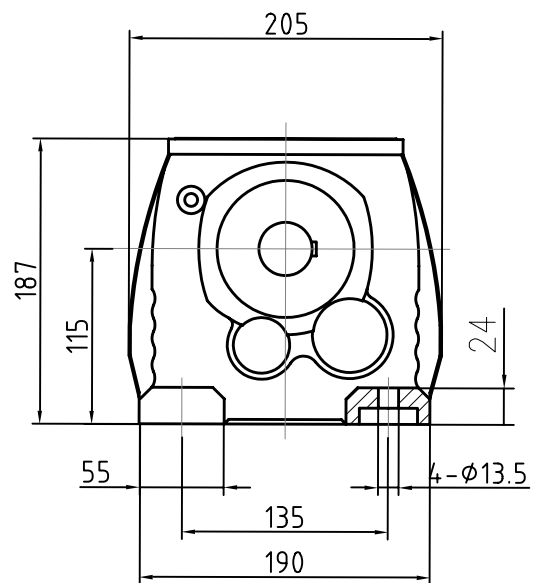
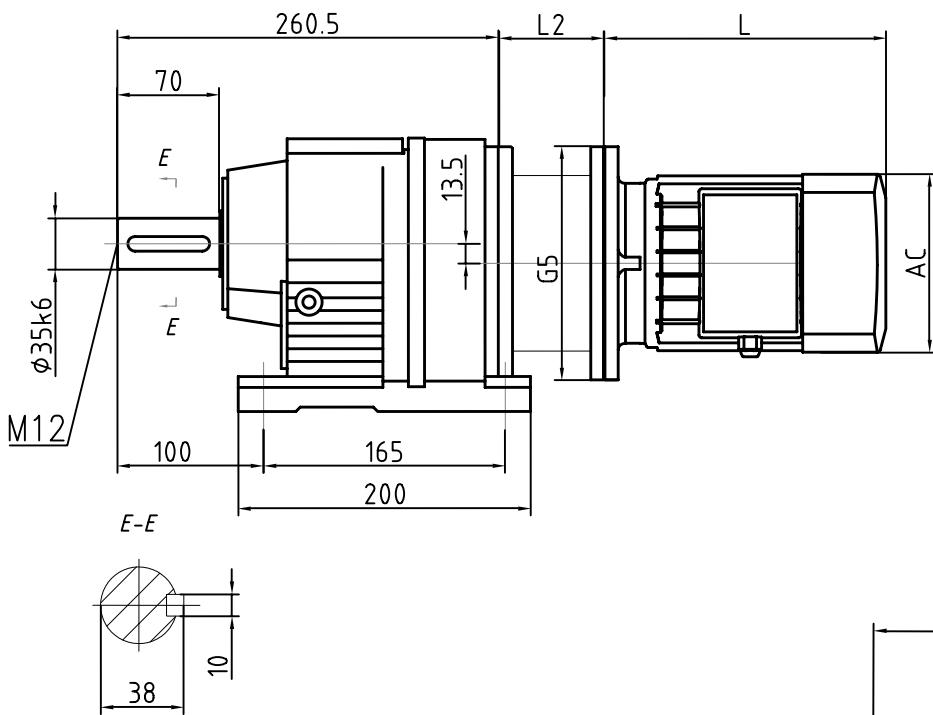


A-A



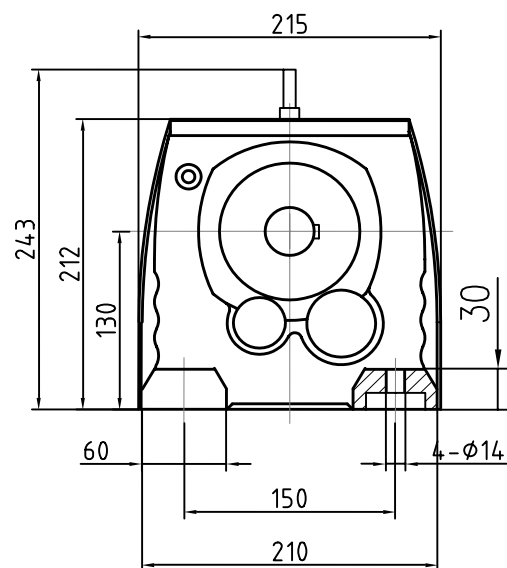
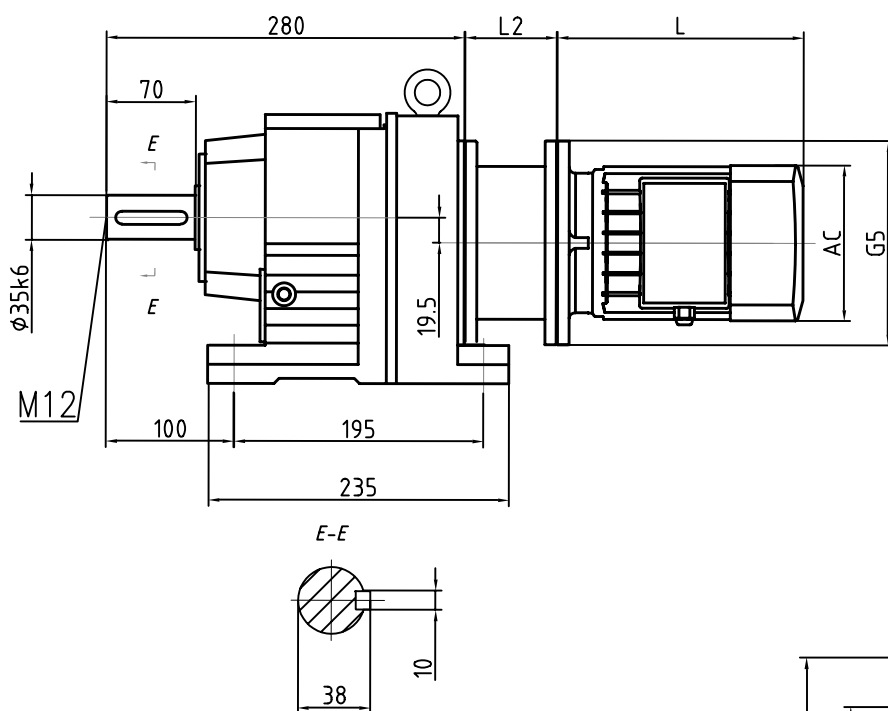
R57

Frame	63	71	80	90	100	112	132
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4.0	5.5/7.5
L	220	245	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$
AC	120	140	155	175	195	215	260
L2	56	57	72	72	68	68	105
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300



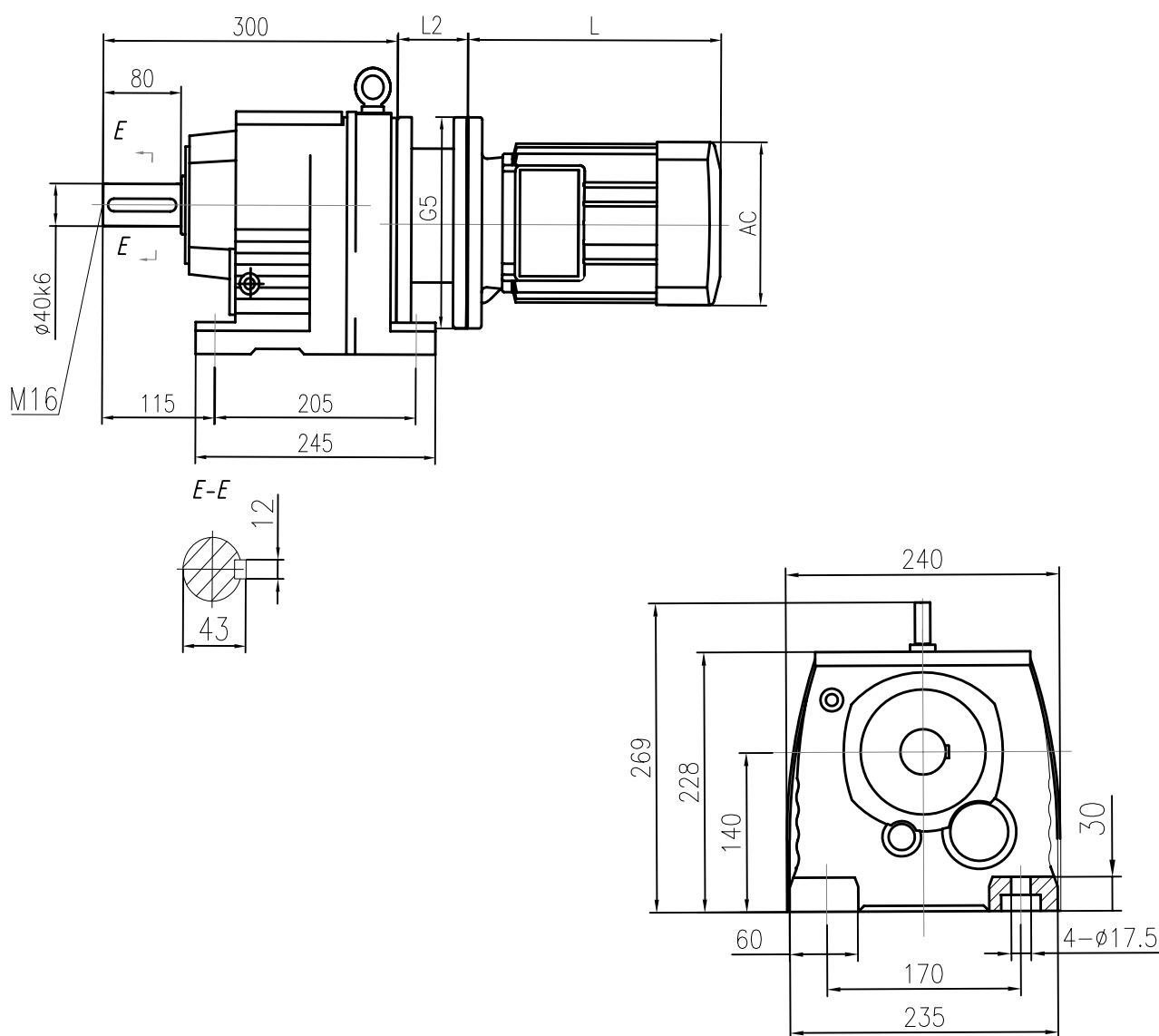
R67

Frame	63	71	80	90	100	112	132
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4.0	5.5/7.5
L	220	245	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$
AC	120	140	155	175	195	215	260
L2	56	57	72	72	68	68	105
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300



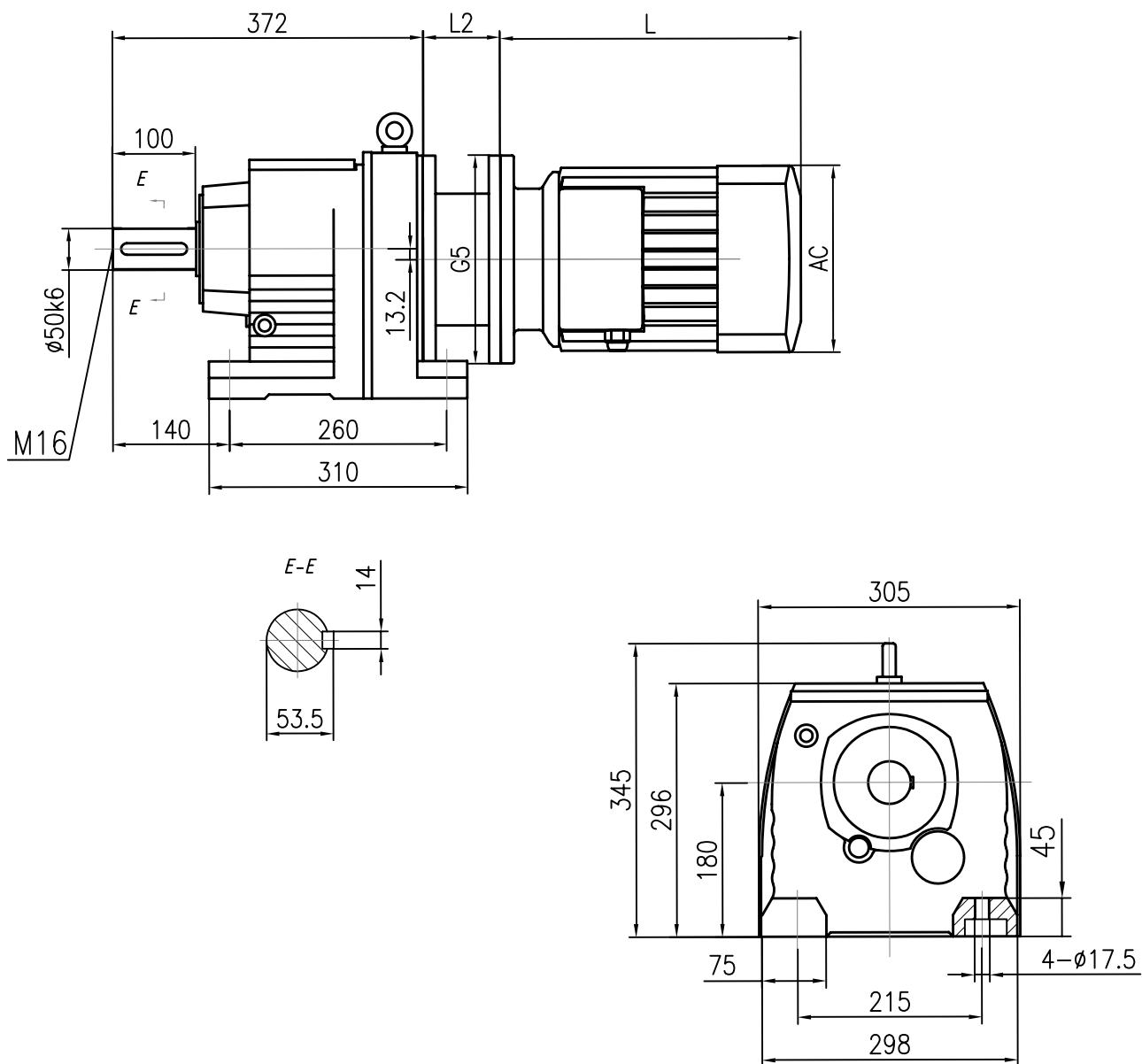
R77

Frame	63	71	80	90	100	112	132	160
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4.0	5.5/7.5	11.0/15.0
L	220	245	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$	$\frac{524}{547}$
AC	120	140	155	175	195	215	260	315
L2	56	57	72	72	68	68	105	129
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350



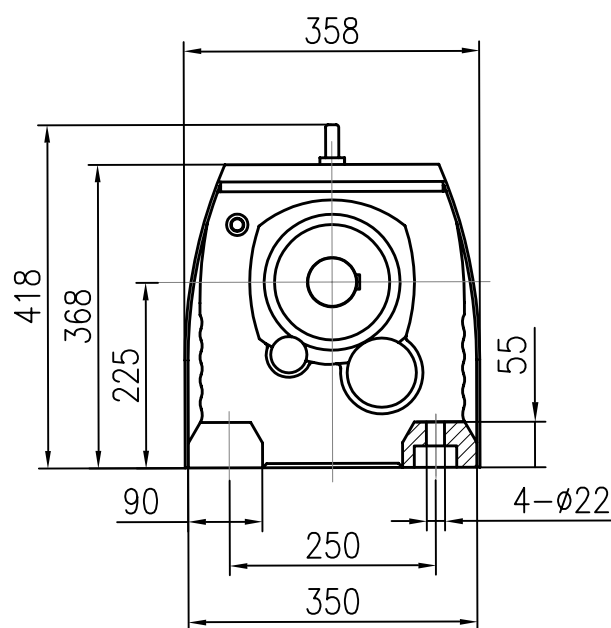
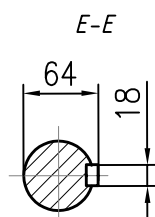
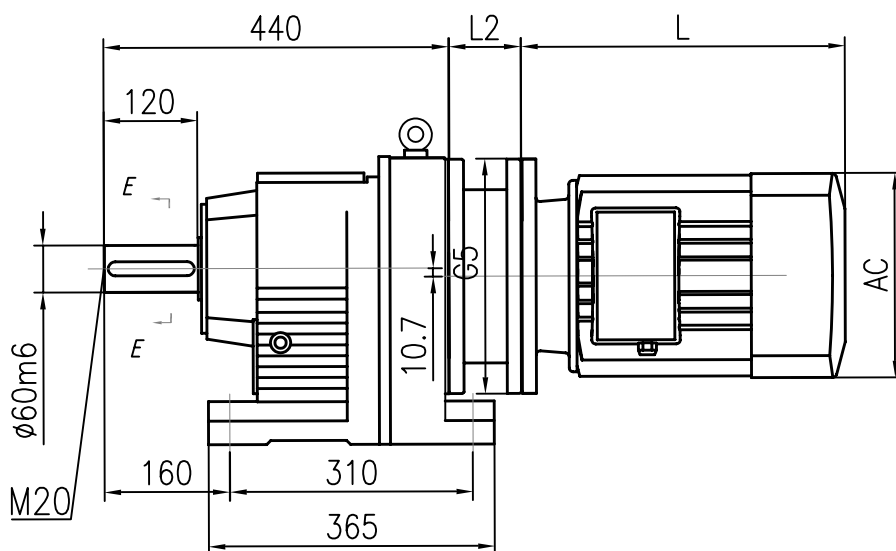
R87

Frame	80	90	100	112	132	160	180
Power/4P	0.55/0.75	1.1/1.5	2.2/3.0	4.0	5.5/7.5	11.0/15.0	18.5/22
L	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$	$\frac{524}{547}$	$\frac{583}{616}$
AC	155	175	195	215	260	315	350
L2	72	72	68	68	105	129	119
G5	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350



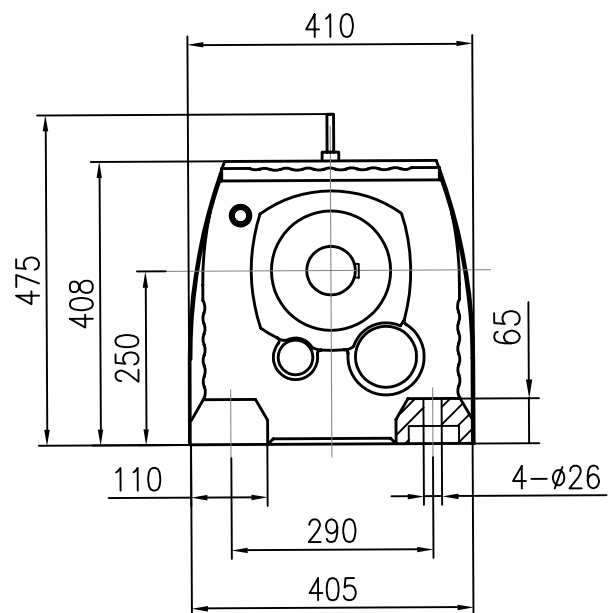
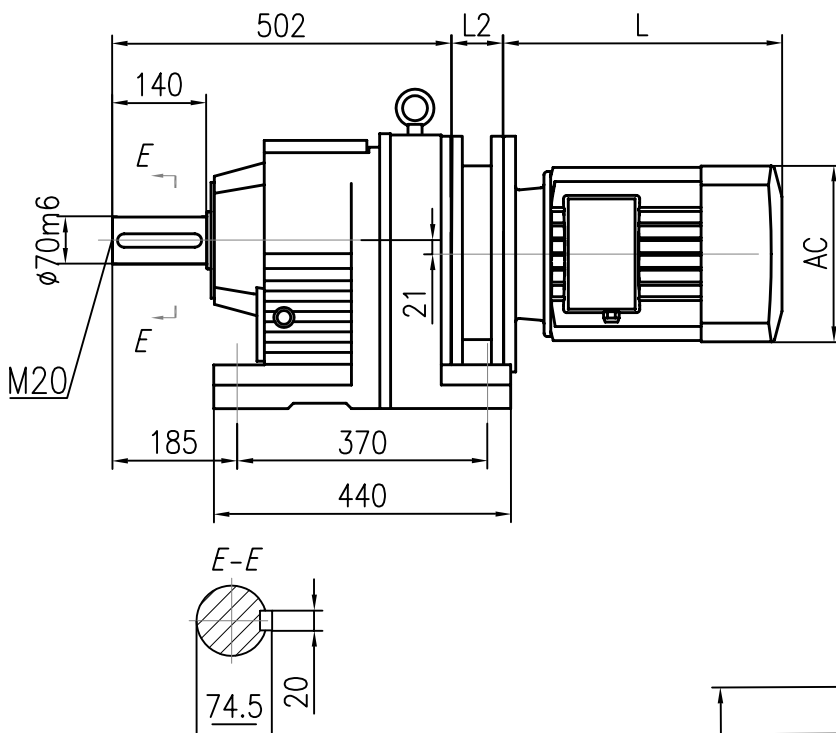
R97

Frame	80	90	100	112	132	160	180	200
Power/4P	0.55/0.75	1.1/1.5	2.2/3.0	4.0	5.5/7.5	11.0/15.0	18.5/22	30
L	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$	$\frac{524}{547}$	$\frac{555}{588}$	654
AC	155	175	195	215	260	315	350	395
L2	72	72	68	68	105	129	113	123
G5	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350	Ø400



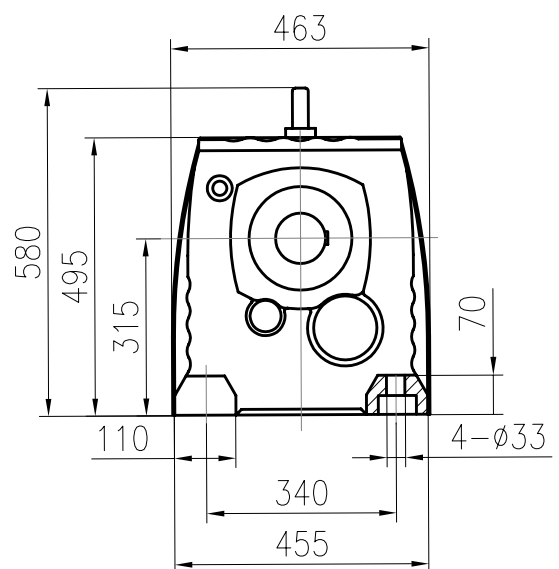
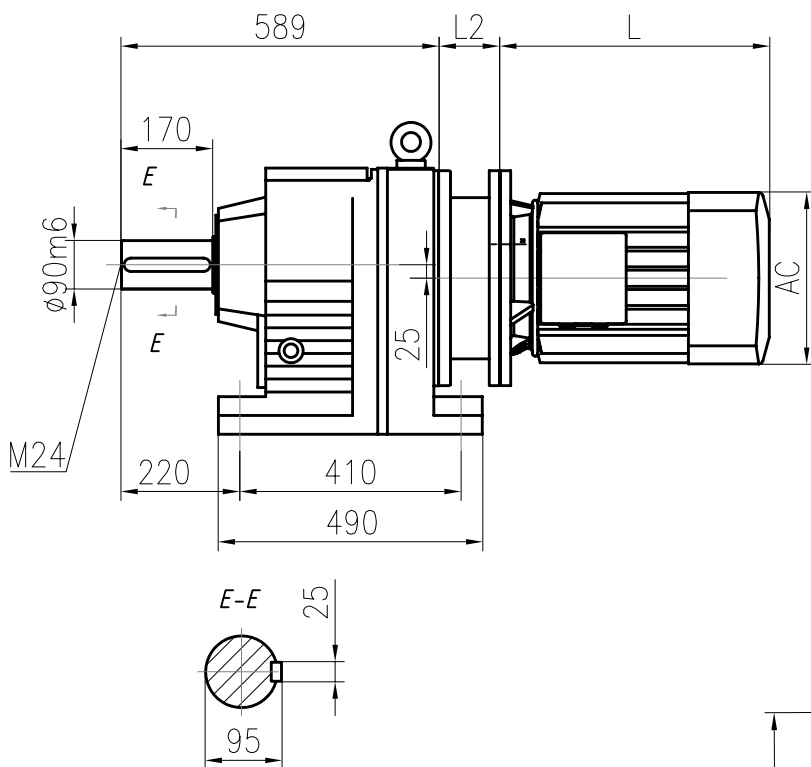
R107

Frame	100	112	132	160	180	200	225
Power/4P	2.2/3.0	4.0	5.5/7.5	11.0/15.0	18.5/22	30	37 / 45
L	350	380	$\frac{425}{461}$	$\frac{524}{547}$	$\frac{555}{588}$	654	$\frac{680}{702}$
AC	195	215	260	315	350	395	450
L2	68	68	105	129	113	123	151
G5	Ø250	Ø250	Ø300	Ø350	Ø350	Ø400	Ø450



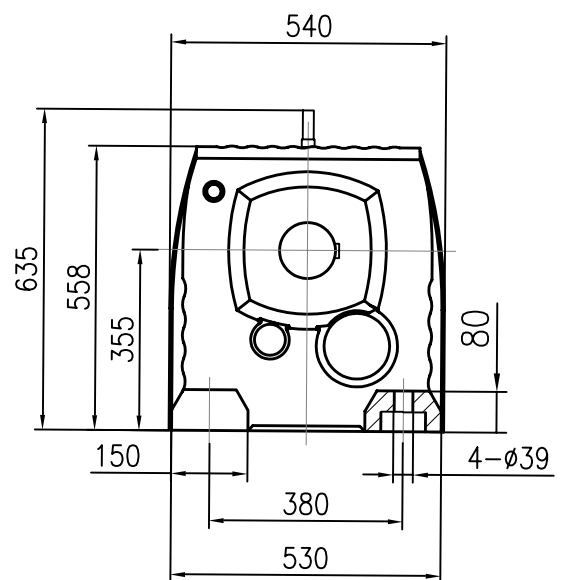
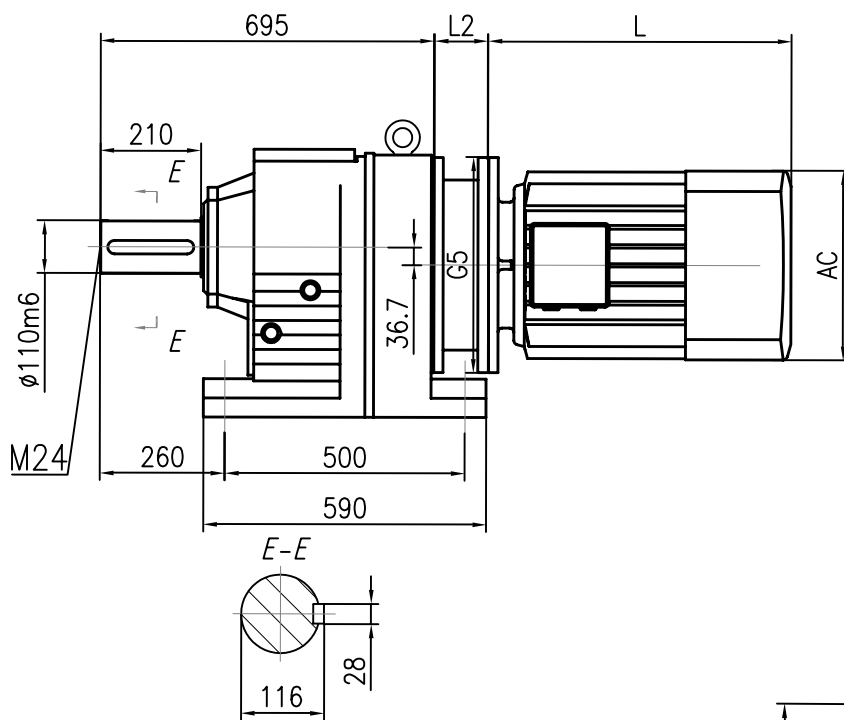
R137

Frame	132	160	180	200	225	250
Power/4P	5.5/7.5	11.0/15.0	18.5/22	30	37 / 45	55
L	$\frac{425}{461}$	$\frac{524}{547}$	$\frac{555}{588}$	654	$\frac{680}{702}$	770
AC	260	315	350	395	450	510
L2	105	129	113	123	151	120
G5	Ø300	Ø350	Ø350	Ø400	Ø450	Ø550



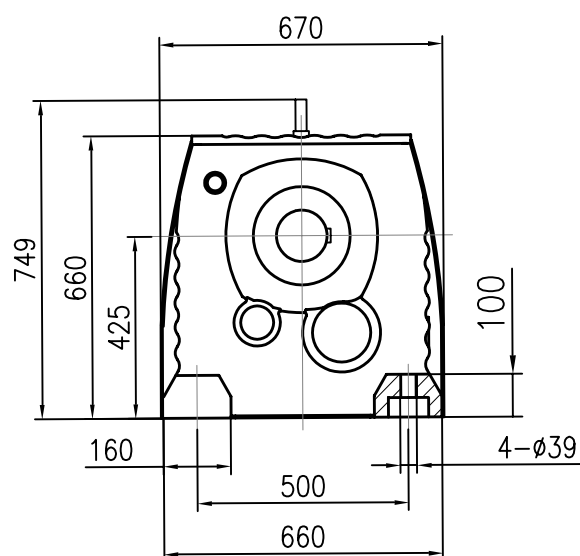
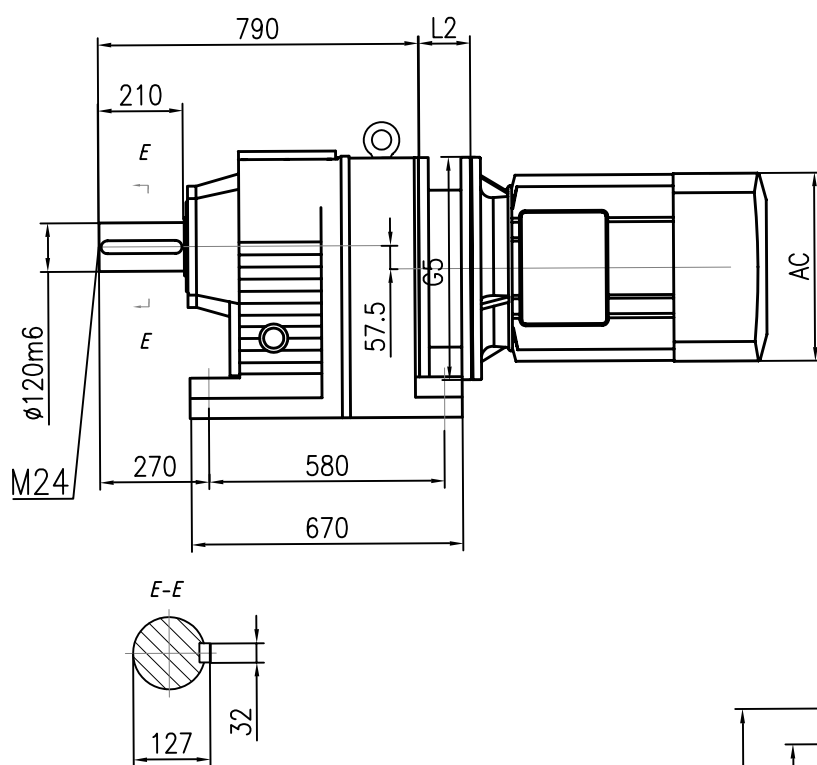
R147

Frame	160	180	200	225	250	280
Power/4P	11.0/15.0	18.5/22	30	37 / 45	55	75 / 90
L	$\frac{524}{547}$	$\frac{555}{588}$	654	$\frac{680}{702}$	770	$\frac{845}{895}$
AC	315	350	395	450	510	580
L2	129	113	123	151	120	139
G5	Ø350	Ø350	Ø400	Ø450	Ø550	Ø550



R167

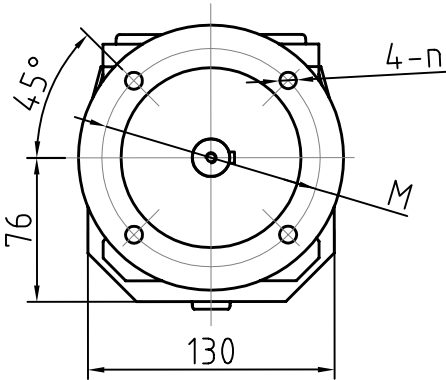
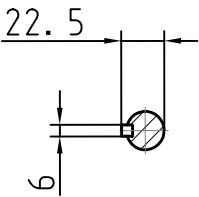
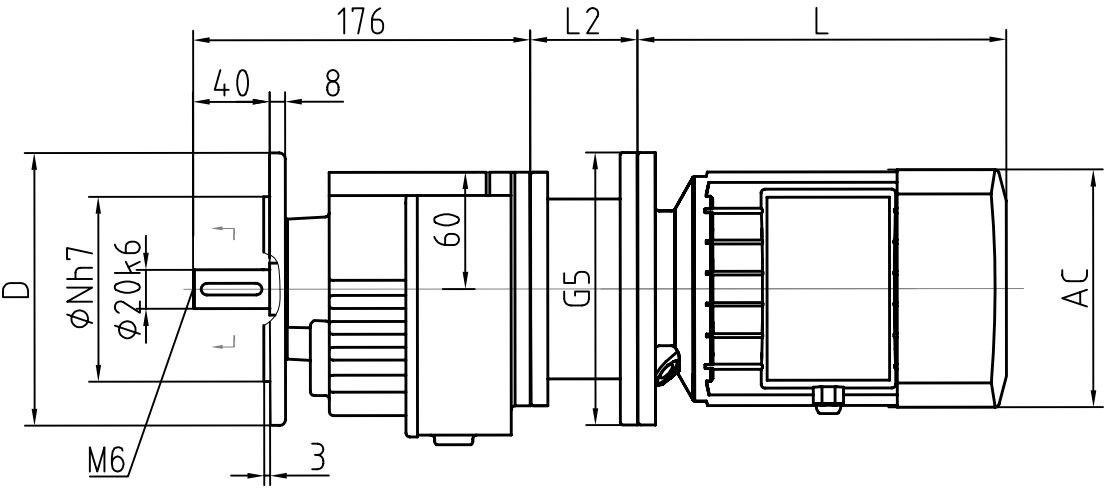
Frame	63	71	80	90	100	112	132
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4.0	5.5/7.5
L	220	245	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$
AC	120	140	155	175	195	215	260
L2	56	57	72	72	68	68	105
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300



RF17

D	Ø120	Ø140
N	Ø80	Ø95
M	Ø100	Ø115
n	Ø7	Ø9

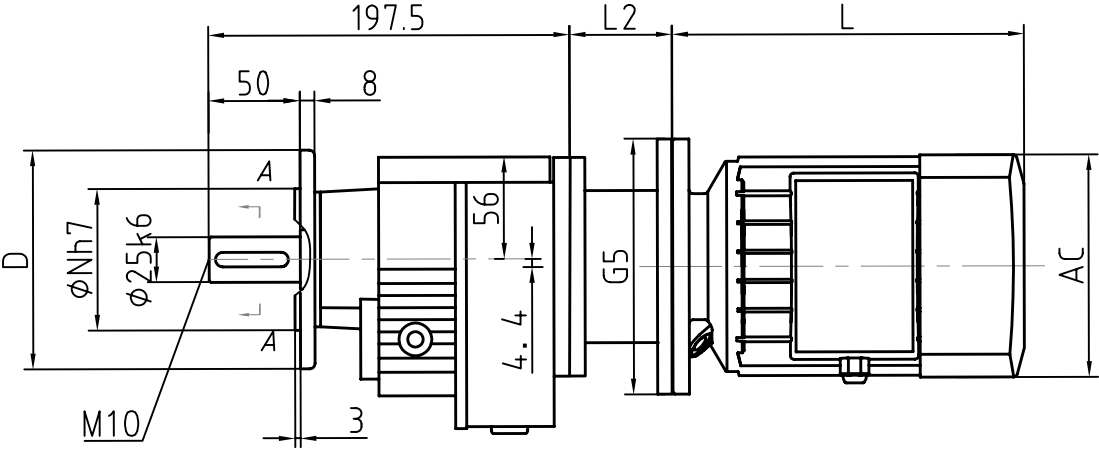
Frame	63	71	80
Power/4P	0.18	0.25/0.37	0.55/0.75
L	220	245	278
AC	120	140	155
L2	56	56	56
G5	Ø140	Ø160	Ø200



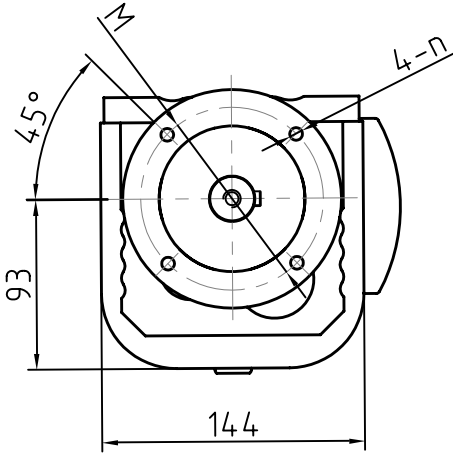
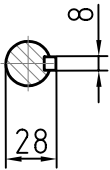
RF27

D	Ø120	Ø140	Ø160
N	Ø80	Ø95	Ø110
M	Ø100	Ø115	Ø130
n	Ø7	Ø9	Ø9

Frame	63	71	80	90	100
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0
L	220	245	278	$\frac{304}{328}$	340
AC	120	140	155	175	195
L2	56	56	56	56	82
G5	Ø140	Ø160	Ø200	Ø200	Ø250



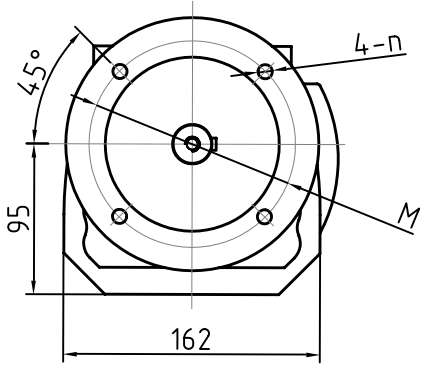
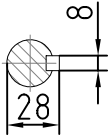
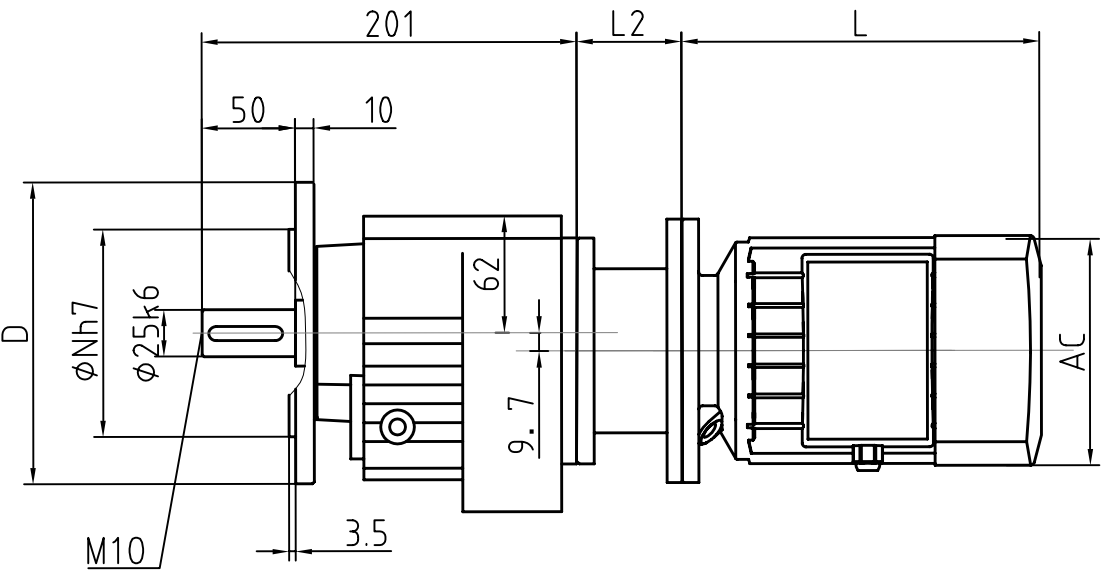
A-A



RF37

D	Ø160	Ø200
N	Ø110	Ø130
M	Ø130	Ø165
n	Ø9	Ø11

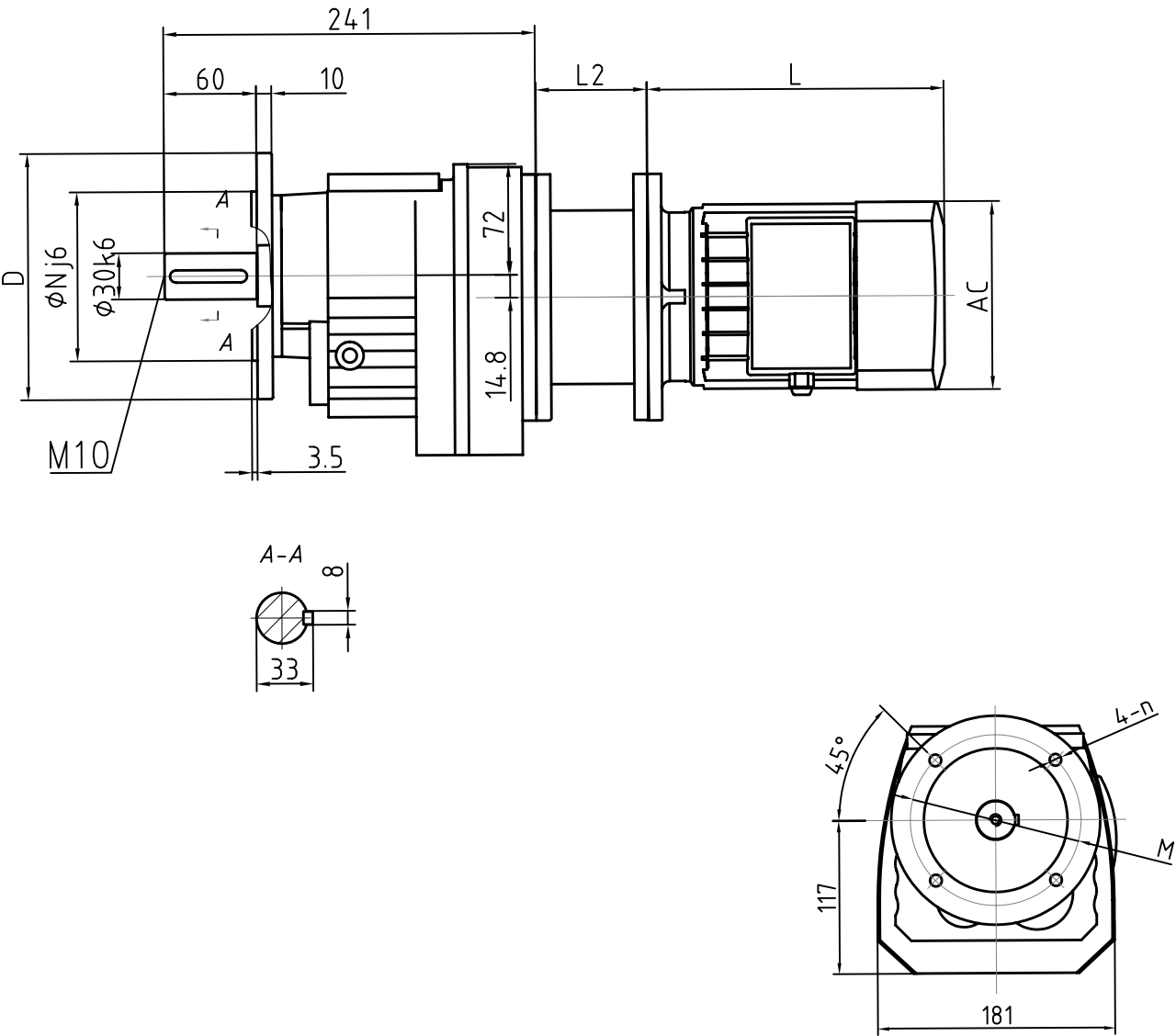
Frame	63	71	80	90	100
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0
L	220	245	278	$\frac{304}{328}$	340
AC	120	140	155	175	195
L2	56	56	56	56	82
G5	Ø140	Ø160	Ø200	Ø200	Ø250



RF47

D	Ø160	Ø200
N	Ø110	Ø130
M	Ø130	Ø165
n	Ø9	Ø11

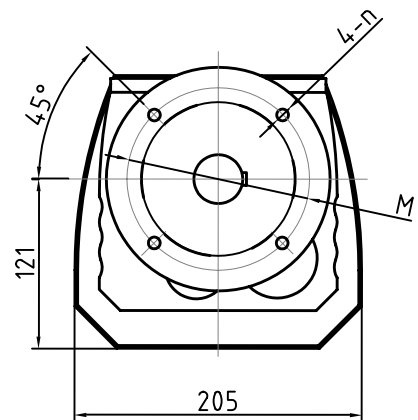
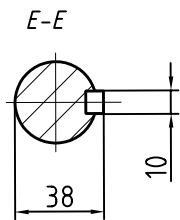
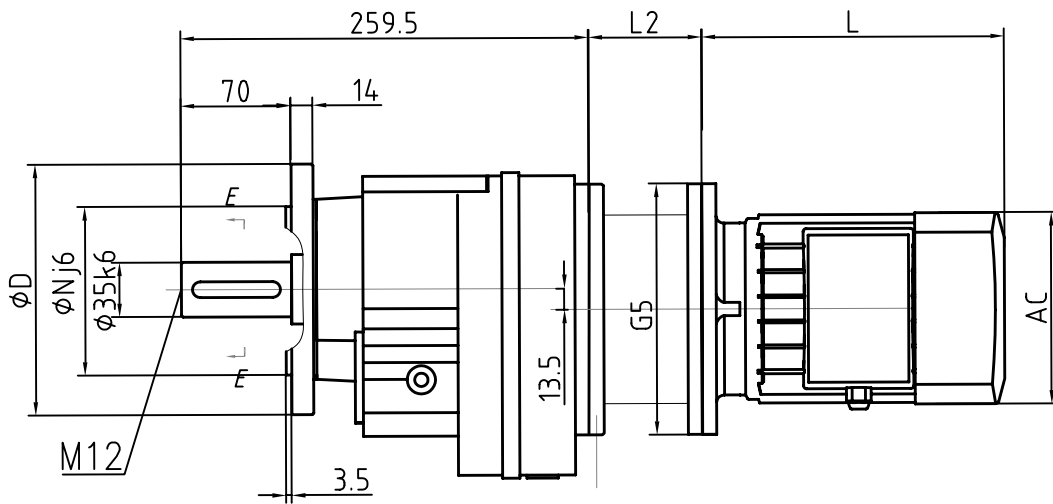
Frame	63	71	80	90	100	112
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4
L	220	245	278	³⁰⁴ / ₃₂₈	340	380
AC	120	140	155	175	195	195
L2	56	57	72	72	68	68
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250



RF57

D	Ø160	Ø200	Ø250
N	Ø110	Ø130	Ø180
M	Ø130	Ø165	Ø215
n	Ø9	Ø11	Ø13.5

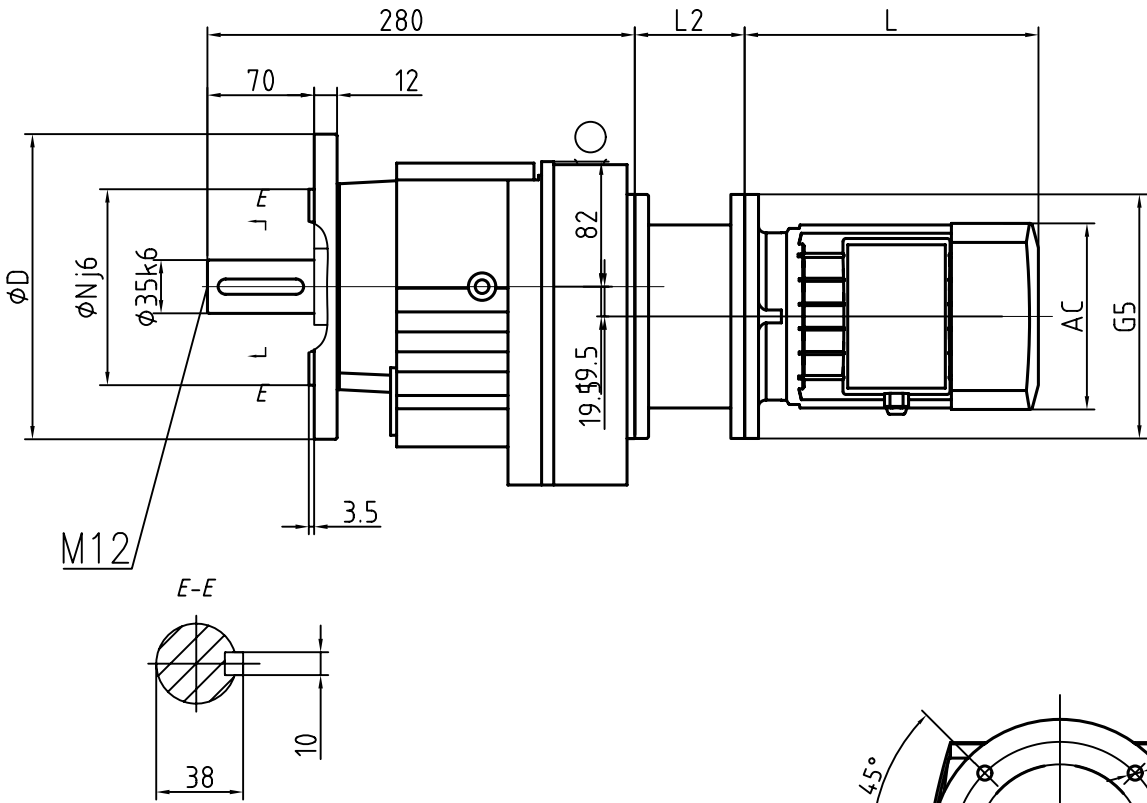
Frame	63	71	80	90	100	112	132
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4	5.5/7.5
L	220	245	278	$\frac{304}{328}$	340	380	$\frac{425}{461}$
AC	120	140	155	175	195	195	260
L2	56	57	72	72	68	68	105
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300



RF67

D	Ø200	Ø250
N	Ø130	Ø180
M	Ø165	Ø215
n	Ø11Ø	13.5

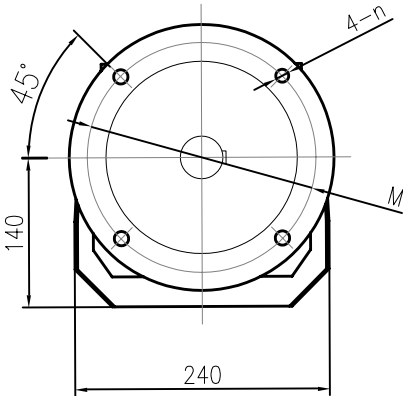
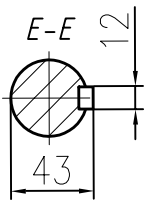
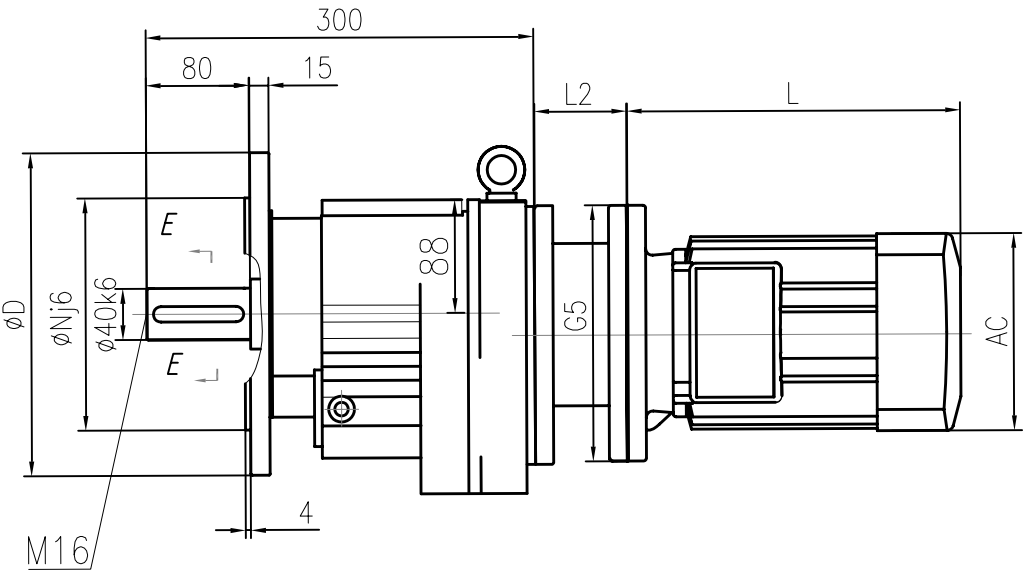
Frame	63	71	80	90	100	112	132
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4	5.5/7.5
L	220	245	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$
AC	120	140	155	175	195	195	260
L2	56	57	72	72	68	68	105
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300



RF77

D	Ø250	Ø300
N	Ø180	Ø230
M	Ø215	Ø265
n	Ø13.5	Ø13.5

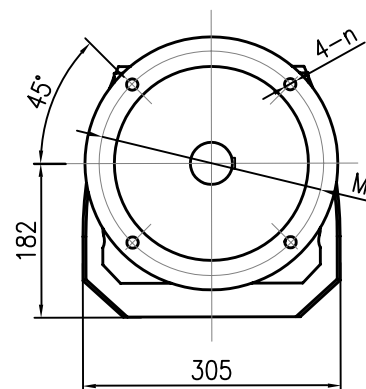
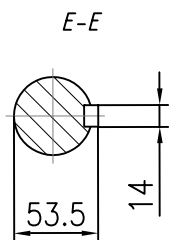
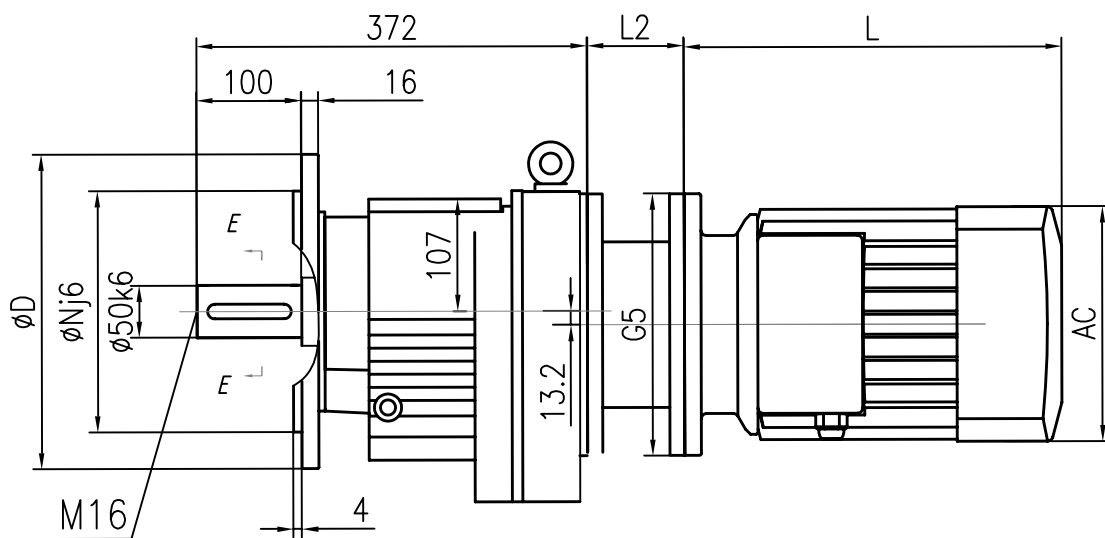
Frame	63	71	80	90	100	112	132	160
Power/4P	0.18	0.25/0.37	0.55/0.75	1.1/1.5	2.2/3.0	4	5.5/7.5	$\frac{11}{15}$
L	233	$\frac{233}{245}$	278	$\frac{304}{328}$	350	380	$\frac{425}{461}$	$\frac{524}{547}$
AC	120	140	155	175	195	195	260	315
L2	56	57	72	72	68	68	105	129
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350



RF87

D	Ø300	Ø350
N	Ø230	Ø250
M	Ø265	Ø300
n	Ø13.5	Ø17.5

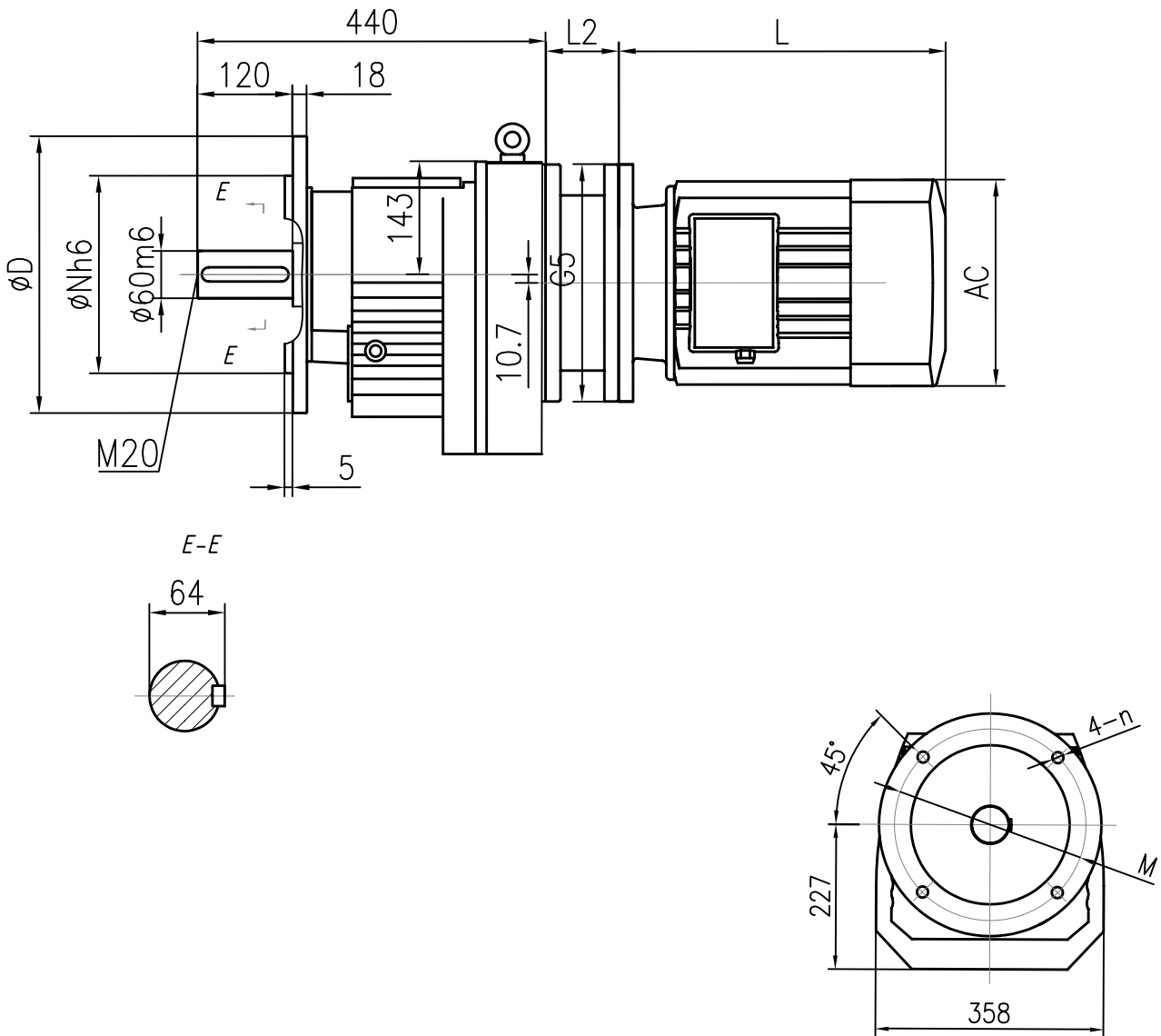
Frame	80	90	100	112	132	160	180
Power/4P	0.55/0.75	1.1/1.5	2.2/3.0	4	5.5/7.5	$\frac{11}{15}$	18.5/22
L	246	280	350	380	$\frac{425}{461}$	$\frac{524}{547}$	$\frac{583}{616}$
AC	155	175	195	195	260	315	250
L2	62	62	74	74	98	119	119
G5	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350



RF97

D	Ø350	Ø450
N	Ø250	Ø350
M	Ø300	Ø400
n	Ø17.5	Ø17.5

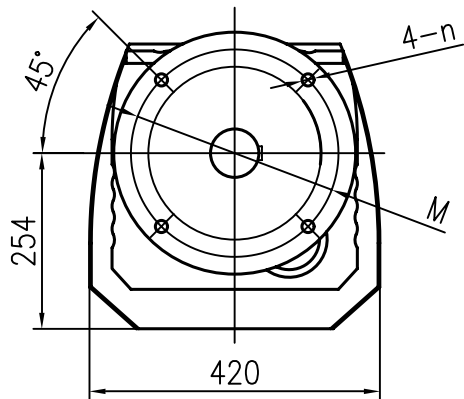
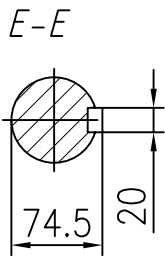
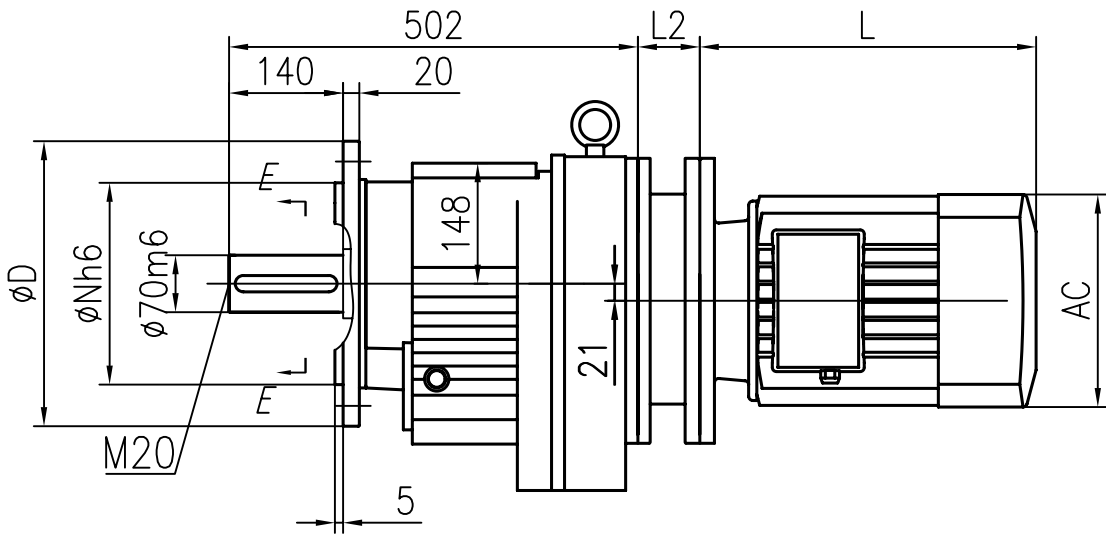
Frame	80	90	100	112	132	160	180	200
Power/4P	0.55/0.75	1.1/1.5	2.2/3.0	4	5.5/7.5	$\frac{11}{15}$	18.5/22	30
L	246	$\frac{280}{304}$	315	334	$\frac{425}{461}$	$\frac{524}{547}$	$\frac{555}{588}$	654
AC	155	175	195	215	260	315	350	395
L2	50	50	50	92	92	113	113	123
G5	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350	Ø400



RF107

D	Ø350	Ø450
N	Ø250	Ø350
M	Ø300	Ø400
n	Ø17.5Ø	17.5

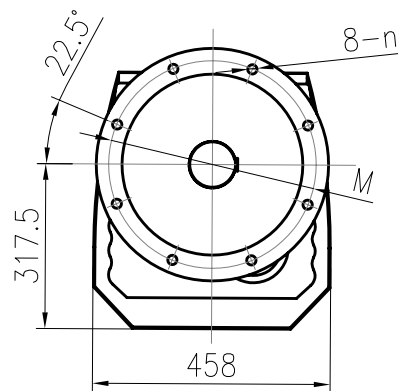
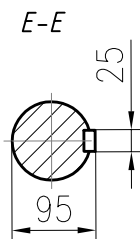
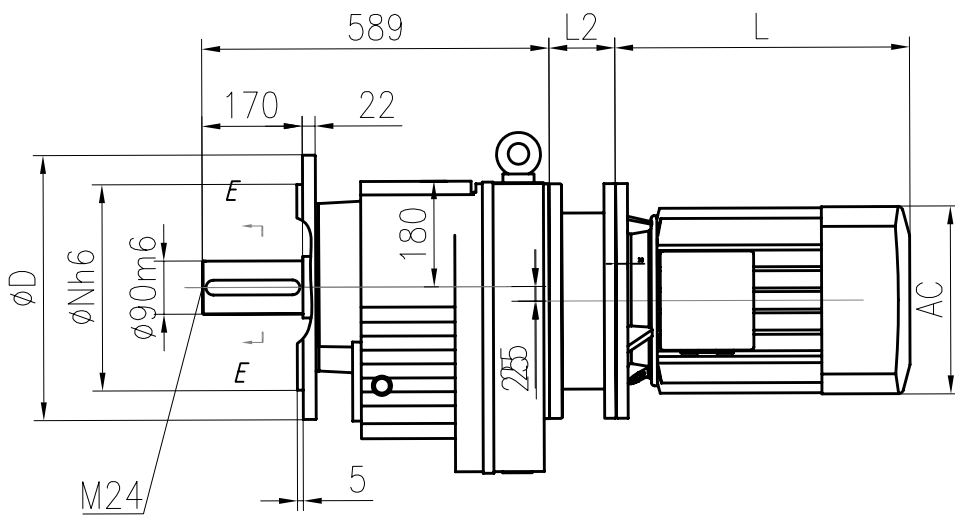
Frame	100	112	132	160	180	200	225
Power/4P	2.2/3.0	4	5.5/7.5	11.0/15.0	18.5/22	30	37.0/45.0
L	318	334	422	$\frac{504}{519}$	$\frac{555}{588}$	654	$\frac{680}{702}$
AC	195	215	260	315	350	395	450
L2	55	55	76	112	112	130	151
G5	Ø250	Ø250	Ø300	Ø350	Ø350	Ø400	Ø450



RF137

D	Ø450	Ø550
N	Ø350	Ø450
M	Ø400	Ø500
n	Ø17.5	Ø17.5

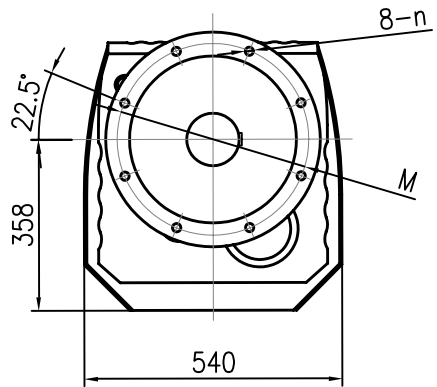
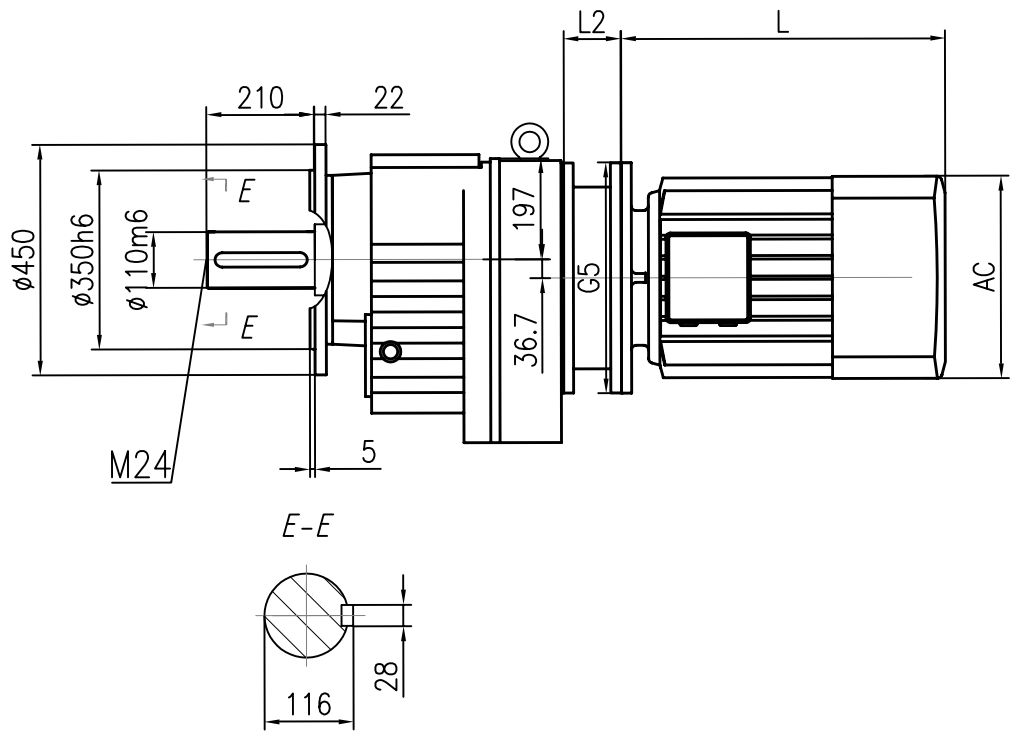
Frame	132	160	180	200	225	250
Power/4P	5.5/7.5	11.0/15.0	18.5/22	30	37.0/45.0	55
L	422	$\frac{504}{519}$	$\frac{555}{588}$	654	$\frac{680}{702}$	770
AC	260	315	350	395	450	510
L2	76	112	112	130	151	120
G5	Ø300	Ø350	Ø350	Ø400	Ø450	Ø550



RF147

D	Ø450	Ø550
N	Ø350	Ø450
M	Ø400	Ø500
n	Ø17.5	Ø17.5

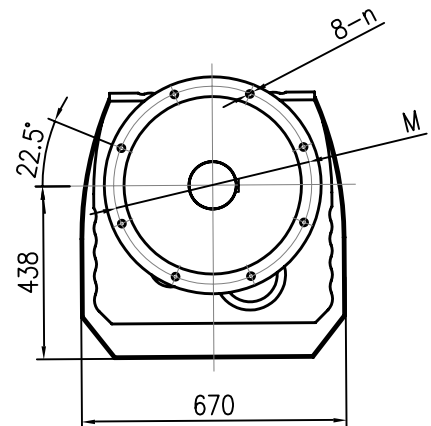
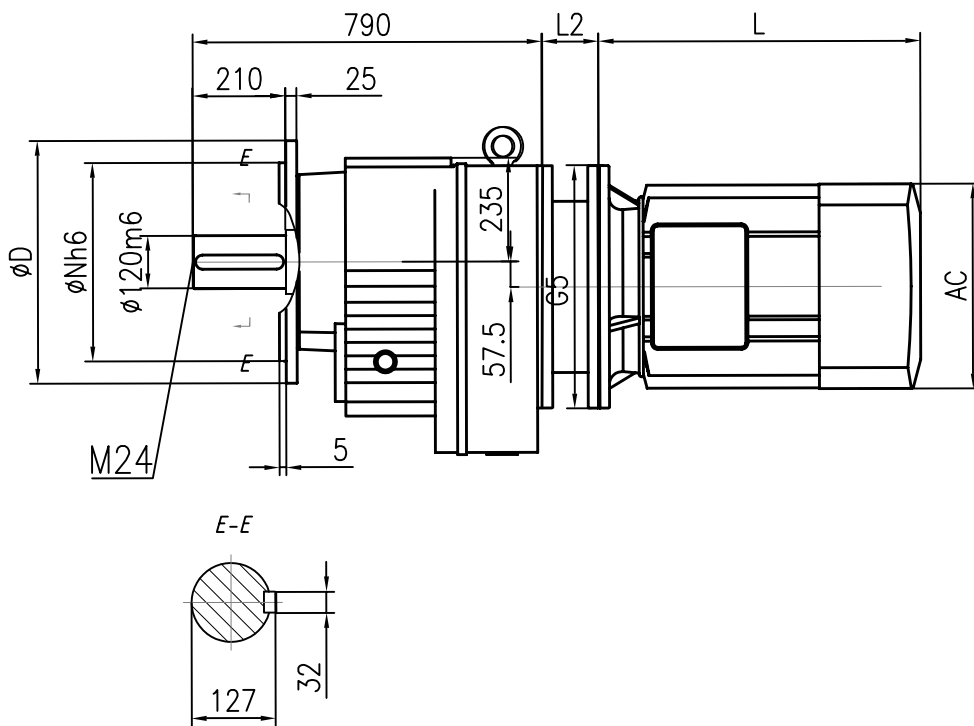
Frame	160	180	200	225	250	280
Power/4P	11.0/15.0	18.5/22	30	37.0/45.0	55	75.0/90.0
L	$\frac{504}{519}$	$\frac{555}{588}$	654	$\frac{680}{702}$	770	$\frac{845}{895}$
AC	315	350	395	450	510	580
L2	112	112	130	151	120	139
G5	Ø350	Ø350	Ø400	Ø450	Ø550	Ø550



RF167

D	Ø450	Ø550
N	Ø350	Ø450
M	Ø400	Ø500
n	Ø17.5	Ø17.5

Frame	160	180	200	225	250	280	315
Power/4P	11.0/15.0	18.5/22	30	37.0/45.0	55	75.0/90.0	110/132/ 160
L	$\frac{567}{602}$	$\frac{635}{666}$	642	$\frac{669}{691}$	770	$\frac{828}{879}$	940/990/ 1050
AC	315	350	395	450	480	530	645
L2	101	101	111	116	120	120	170
G5	Ø350	Ø350	Ø400	Ø450	Ø550	Ø550	Ø660



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