



Helical Gearmotor

STANDARD **IEC**

About US

Atlas Motori Riduttori S.r.l, an Italian company which is specialized for high quality power transmission components such as Worm Gearboxes, Helical Gearboxes and Induction Motors. With the best quality and product durability, Atlas has succeeded to be customer choice Globally. The company "Atlas", based in Milan, Italy, assures to offer the best quality product with optimum performance for light and heavy industrial applications. Our design and engineering team have been relentlessly working on the product improvement since its formation.

Atlas is working exclusively in below products:

0.09kW to 7.5kW premium efficiency IEC standard motors

0.09kW to 200kW special shaft for Helical gears input

High quality worm gearboxes from 14mm to 50mm

Helical gearboxes for high torque application

Our products are competent to replace the most of European Brands both in quality and dimension.



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AR Series Helical - Inline Gearmotor



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Table of Motor's dimensions



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AR SERIES HELICAL GEAR MOTOR



Model ARF ..7
Two-stage or Three-stage flange- mounted
Inline Helical Gearmotor



Model AR..1
Single-stage foot-mounted Helical Gearmotor



Model ARF..1
Single-stage flange-mounted Helical Gearmotor



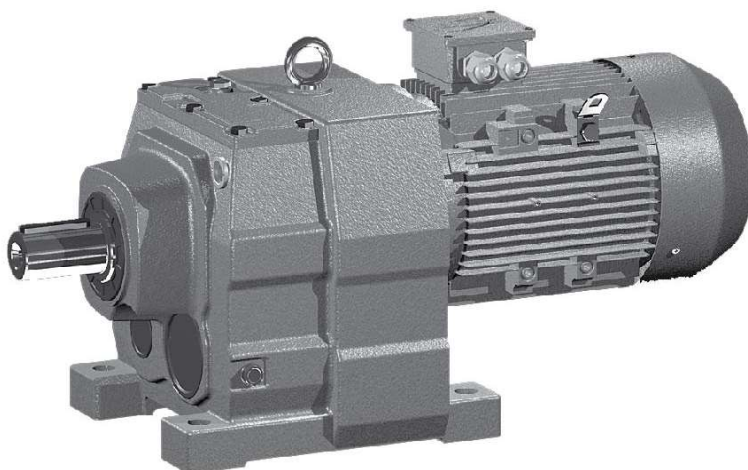
Model AR..7 AR..7
Combination of two Model AR..7 Gearmotor



Model AR..S..7
Solid Input Inline Helical Gearbox



Model AR-F..7
Two-stage or Three-stage Foot Cum
Flange - mounted Inline Helical Gearmotor



Model AR ..7
Two-stage or Three-stage Foot- Mounted Inline Helical Gearmotor



Characteristics:

1. ATLAS Gearmotor are based on the building block design, so it's convenient for them to fit all types of motors or to connect with other power input. The same type of Gearbox can fit motors with different power, so that it's possible for different types of machines to combine or connect.
2. High transmission efficiency. A single machine can reach a transmission efficiency as much as 96%.
3. Precise division of transmission ratio with a wide range. The combination of machines can produce a larger transmission ratio at a low output rotational speed.
4. Various ways of installation. Horizontal installation at any position or flanged installation.

Working Environment:

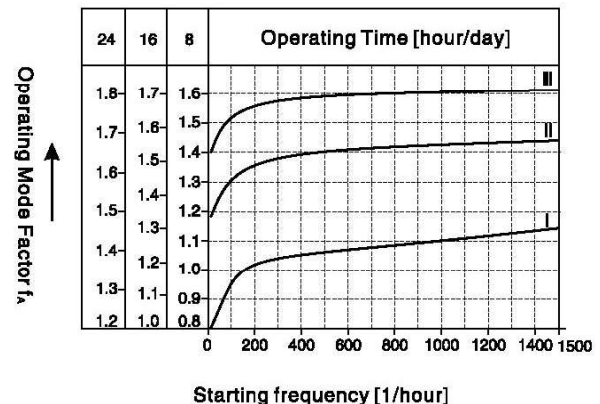
1. Working temperature: -40°C – 50°C (The lubrication should be heated until above 0°C if the machine works Below 0°C .)
2. The working place should be lower than 1,000 meters above sea level.
3. The input rotational speed should not exceed 1,800r/m. The circumferential speed of the gear should not exceed 20m/s.
4. Suitable for Bidirectional rotation (REV- FWD).
5. Without industry limitation.
6. Please consult our technical supporting department for other circumstances.

Instructions for Selection:

The daily operating time, the starting frequency and the load classifications be to determined before deciding the service factor. The load classification is calculated with the following formula:

Load classification

Uniform load, mass acceleration factor ≤ 0.2
Medium Impact Load, mass acceleration factor ≤ 3
Heavy shock Load, mass acceleration factor ≤ 10



Please contact our technical supporting department in case the mass acceleration factor > 10 .

$$\text{Mass acceleration factor} = \frac{\text{All external mass moments of Inertia}}{\text{Mass moment of inertia on the motor end}}$$

The actual operating mode factor (f_a) should meet the following formula: service factor $f_s \geq$ operating mode factor f_a

The service factor f_s is listed in the parameter selection list.

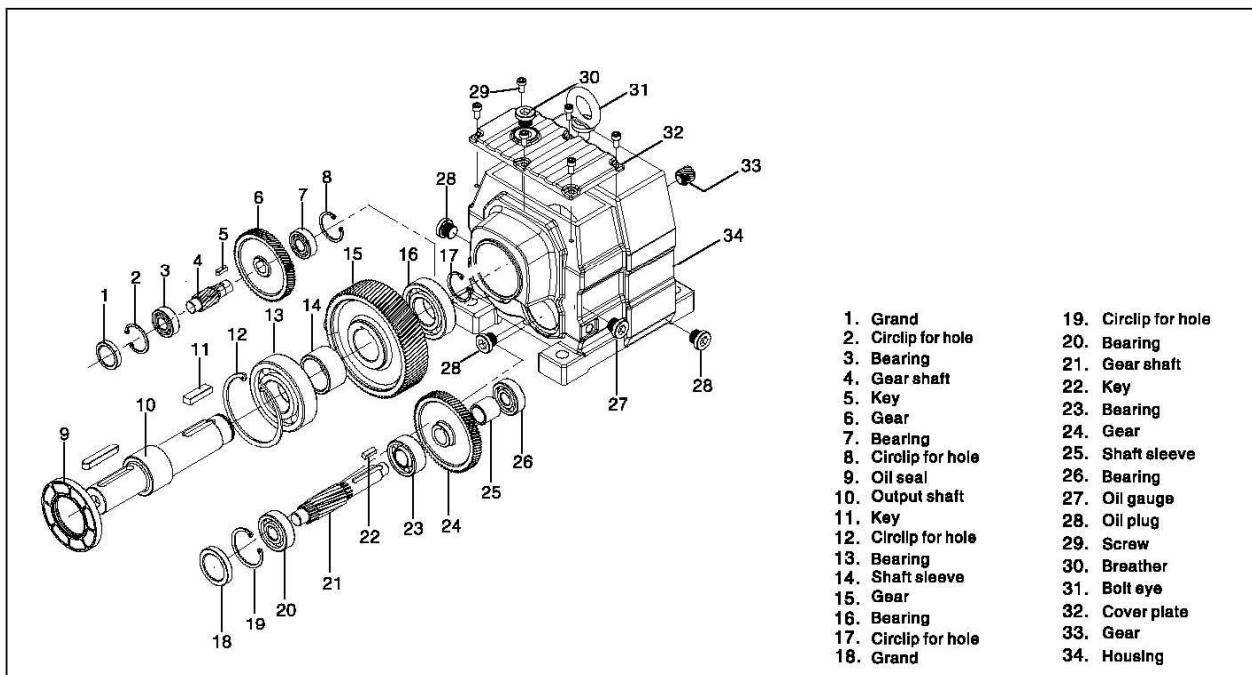
The permitted overhung loads and the axial forces.

Please contact our technical supporting department for the information on the permitted overhung loads and the axial forces at the output end of the shaft.

Regarding the use and maintenance of the Gearmotor, please refer to the attached Instruction Manual of the Gearbox and the Variable Speed Motor.



AR..7 SERIES SPARE PARTS LIST



Type, specification and model notation for AR..7 series
Inline-Helical Gearmotor. :

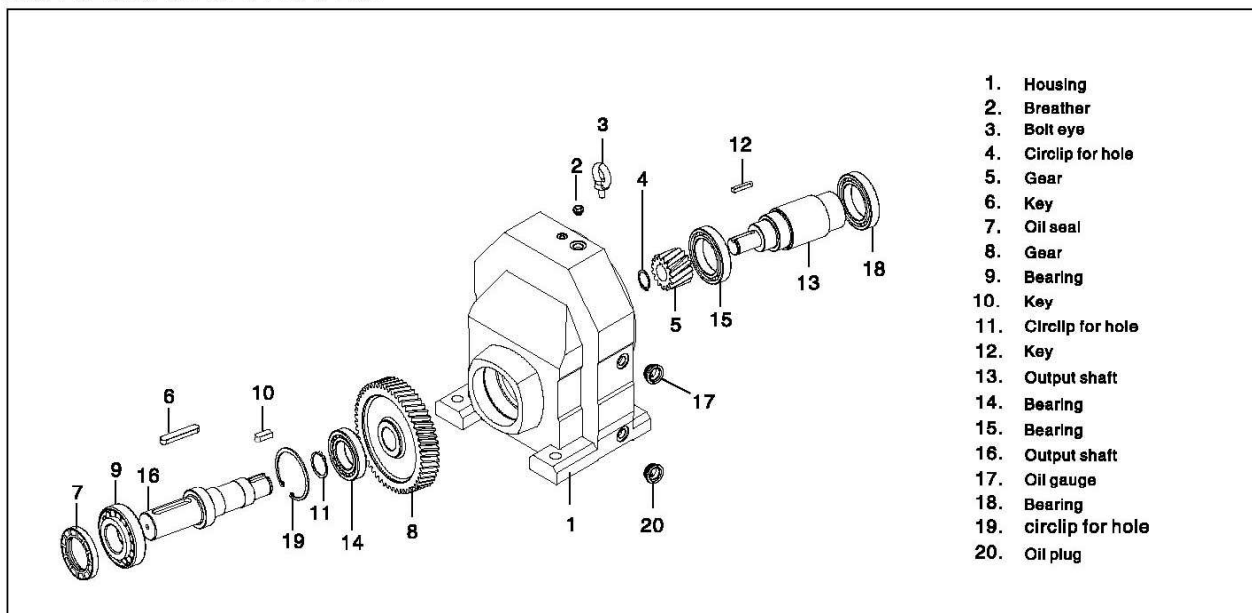
Types, specifications of this series Gearmotor have 13 models

AR 17, 27, 37, 47, 57, 67, 77, 87, 97, 107, 137, 147, 167

Gear ratio: 3.83 ~ 289.74, which can be allocated to 0.18 ~ 160kW.

Electric motor

AR..1 SERIES SPARE PARTS LIST



Type, specification and model notation for AR..1series
primary deceleration Inline Helical Gearmotor

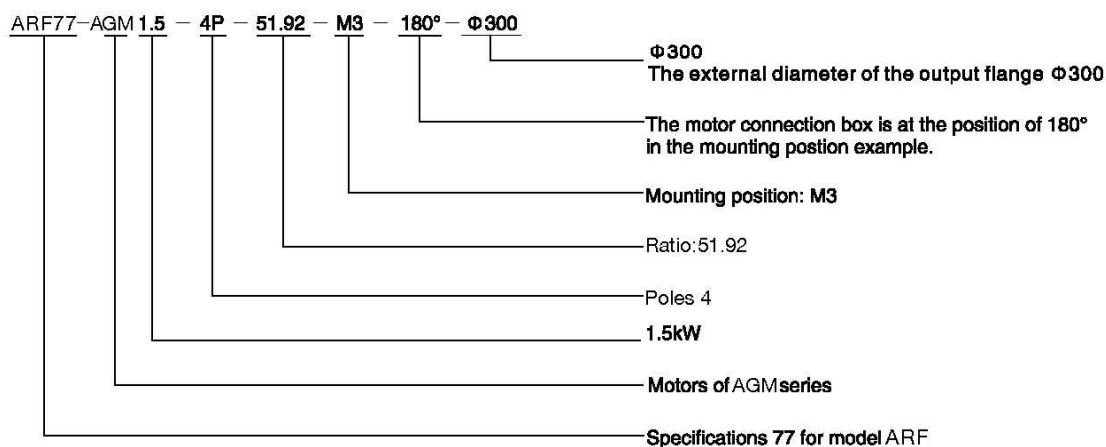
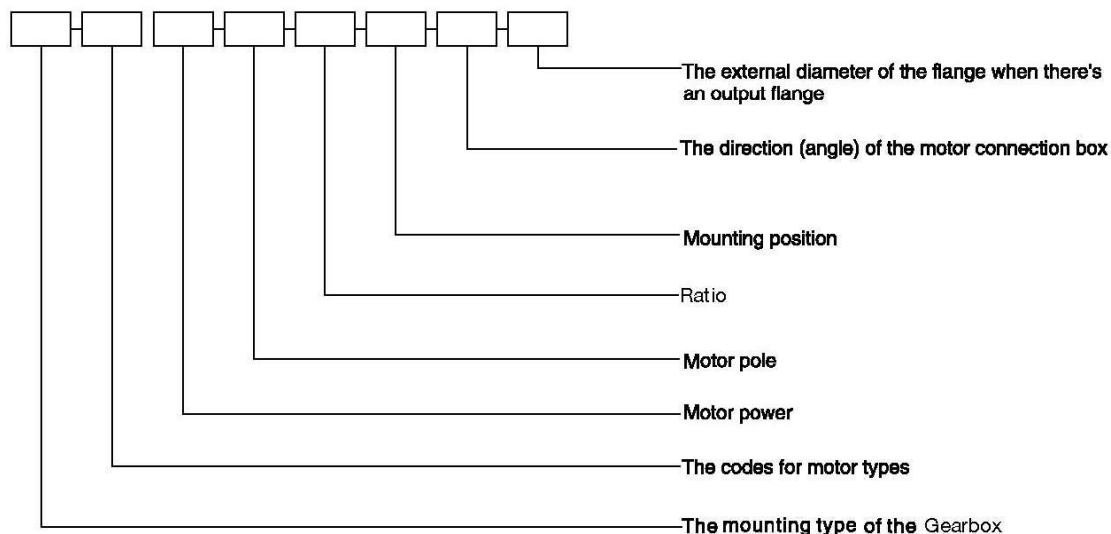
Types, specifications of this series Gearmotor have 6 Models

AR 51, 61, 71, 81, 91, 101

Gear ratio: 1.42~8.23, which can be allocated to 0.81~45kW. Electric Motor



Instructions for Models:



Note:

1. Motors of AGM series are supplied with protection grade of IP55 unless otherwise specified.
2. The mounting position of M1 as shown in the mounting position example is the default way when supplying unless otherwise specified.
3. 270° as shown in the mounting position example is the default connection box angle when supplying unless otherwise specified.
4. If there's an output flange, the small flange as shown in the Physical Dimension Illustration will be supplied unless otherwise specified.
5. Please contact our technical supporting department in case there's any special requirements on the
6. About Motor size, please check table of motor's dimensions.



Codes for Motor Types:

AGM series	AGM	Flameproof Motor	AEX	Direct Current Motor	Z
Brake Motor	ADC	Roll Motor	AG	Variable Frequency Motor	AVP

Length of Contact Flange L2

1. The form on length of the contact flange L2 of the helical gear motor of AR..7 series

Motor frame size Reducer type	63	71	80	90	100	112	132	160	180	200	225	250	280	315
AR.17	61.5	61.5	80	—	—	—	—	—	—	—	—	—	—	—
AR.27	61.5	61.5	80	80	98	—	—	—	—	—	—	—	—	—
AR.37	61.5	61.5	80	80	98	—	—	—	—	—	—	—	—	—
AR.47	56	56	74.5	74.5	90.5	90.5	123	—	—	—	—	—	—	—
AR.57	56	56	74.5	74.5	90.5	90.5	123	—	—	—	—	—	—	—
AR.67	56	56	74.5	74.5	90.5	90.5	123	—	—	—	—	—	—	—
AR.77	50	50	68.5	68.5	82.5	82.5	111	152.5	—	—	—	—	—	—
AR.87	—	—	63.5	63.5	78.5	78.5	106	147.5	147.5	—	—	—	—	—
AR.97	—	—	57.5	57.5	72.5	72.5	101	142.5	142.5	144.5	—	—	—	—
AR.107	—	—	—	—	66.5	66.5	95	136.5	136.5	138.5	168.5	—	—	—
AR.137	—	—	—	—	—	—	88	129.5	129.5	131.5	161.5	163	—	—
AR.147	—	—	—	—	—	—	80	121.5	121.5	123.5	153.5	153.5	153.5	—
AR.167	—	—	—	—	—	—	—	113.5	113.5	115.5	145.5	145.5	145.5	184

2. The form on length of the contact flange L2 of the helical gear motor of AR..1 series

Motor frame size Reducer type	63	71	80	90	100	112	132	160	180	200	225
AR.51	56	56	74.5	74.5	90.5	90.5	123	—	—	—	—
AR.61	56	56	74.5	74.5	90.5	90.5	123	—	—	—	—
AR.71	50	50	68.5	68.5	82.5	82.5	111	152.5	—	—	—
AR.81	—	—	63.5	63.5	78.5	78.5	106	147.5	147.5	—	—
AR.91	—	—	57.5	57.5	72.5	72.5	101	142.5	142.5	144.5	—
AR.101	—	—	—	—	66.5	66.5	95	136.5	136.5	138.5	168.5

Symbol of mounting position example

 Breather valve	 Oil level plug	 Oil drain plug
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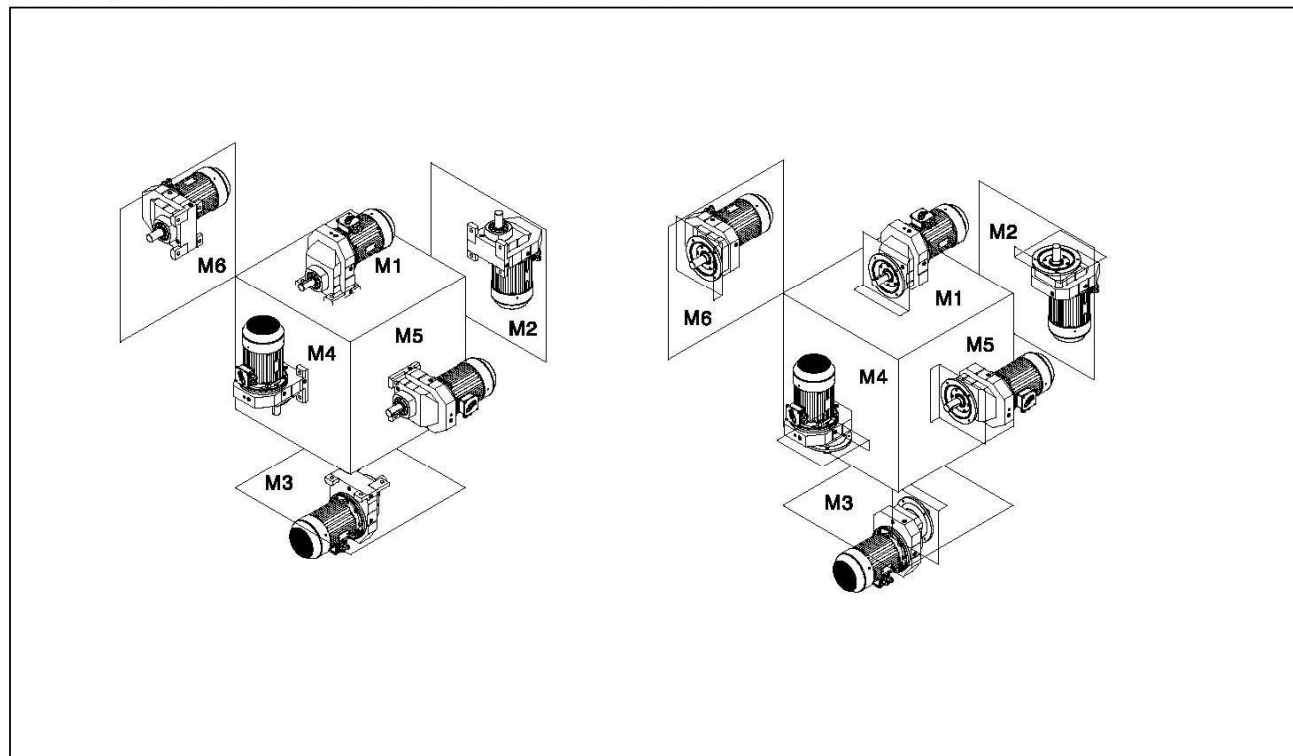
Explanation of Parameter Selection List

Power (kW)	Output speed (r/min)	Output torque (N · m)	Ratio (i)	Service factor (fB)	Type	Motor pole	Weight (kg)
0.75	20	350	67.93	0.81	AR 47	4P	20
	22	329	63.77	0.87	ARF47	4P	20
	23	309	59.99	0.92			
	25	291	56.54	0.98			

1.The machine types in the parameter selection list can match any transmission ratio in the column.



Mounting Positions of Inline Helical Gearmotor AR..1 Series



AR..1 series oil capacity table (unit:Ltr.)

	M1	M2	M3	M4	M5	M6
AR51	0.6	0.4	0.6	0.72	0.32	0.4
AR61	0.65	0.5	0.72	0.8	0.4	0.5
AR71	1.2	0.9	1.2	1.6	0.8	0.8
AR81	2	1.8	2	2.8	1.2	1.2
AR91	3	2	2.8	3.6	1.8	2
AR101	5.5	3.8	6	6.8	3.6	3.2

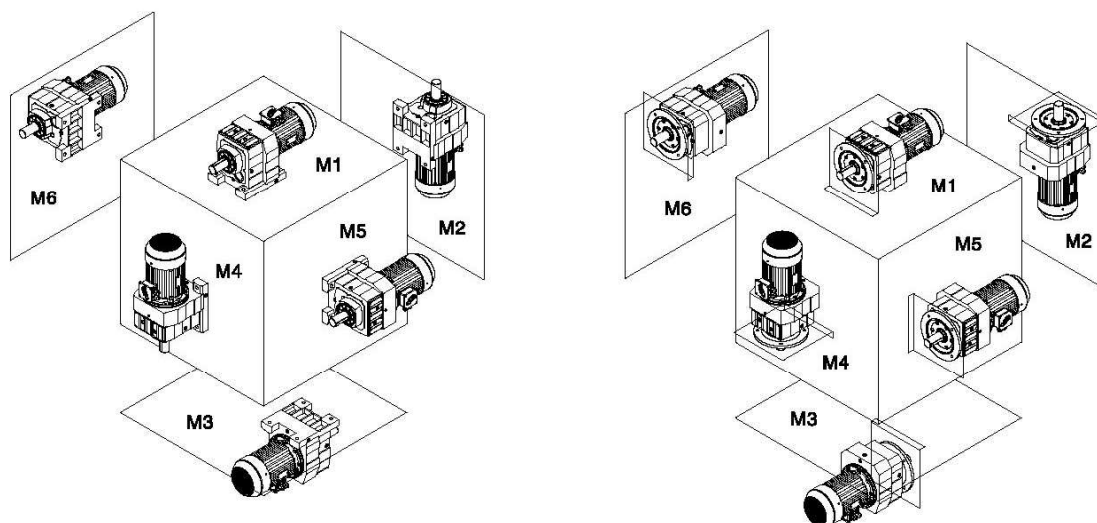
AR..1 series weight table:

Type	AR51	AR61	AR71	AR81	AR91	AR101
Weight (Kgs)	7.5	13	22	33	61	80

Note: Inside the table are the weight when oil is not added. Weight should be added with 10% when input shaft and connection flange are furnished; If there is a motor, please add weight according to motor type.



Mounting Positions of Inline Helical Gearmotor AR..7 Series



AR series oil capacity table (unit:Ltr.)

	M1	M2	M3	M4	M5	M6
AR17	0.3	0.6	0.4	0.7	0.4	0.4
AR27	0.8	0.8	1	1.1	0.8	1
AR37	0.8	0.8	1	1.1	0.8	1
AR47	1	1.6	1.5	1.7	1.5	1.5
AR57	1.1	1.9	1.7	2.1	1.7	1.7
AR67	1.3	2.6	2.8	3.2	1.8	2
AR77	1.6	3	3	3.3	2.1	2.3
AR87	3.6	6	6.5	7	5.7	5.9
AR97	4.5	10.9	10.7	12.5	10.3	10.6
AR107	6.4	17.4	18	20.5	14	17
AR137	10	28	29	31	25	25
AR147	16	45	48	52	40	41
AR167	29	80	78	88	66	69

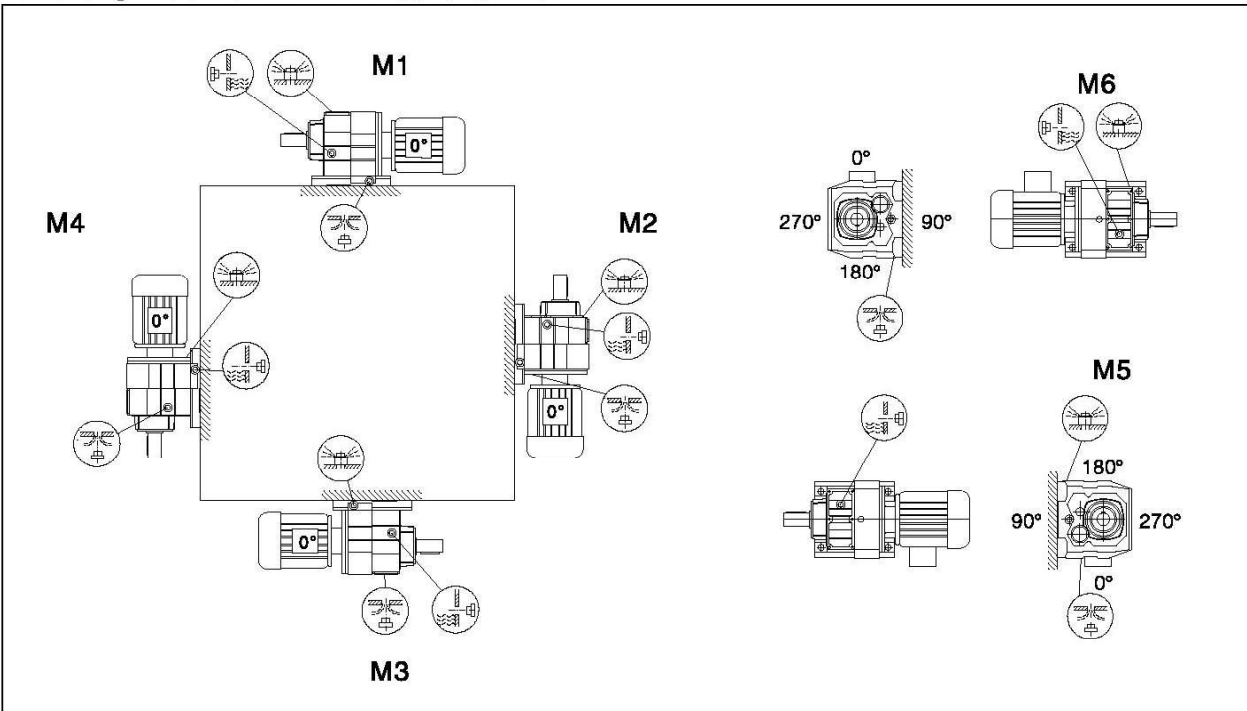
AR series weight table

Type	AR17	AR27	AR37	AR47	AR57	AR67	AR77	AR87	AR97	AR107	AR137	AR147	AR167
Weight (Kgs).	5	9	10	15	21	27	35	65	120	165	255	370	700

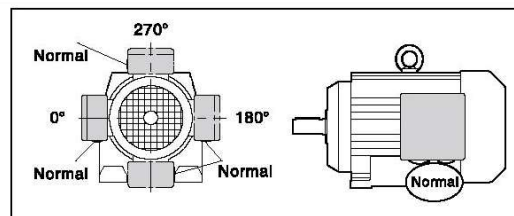
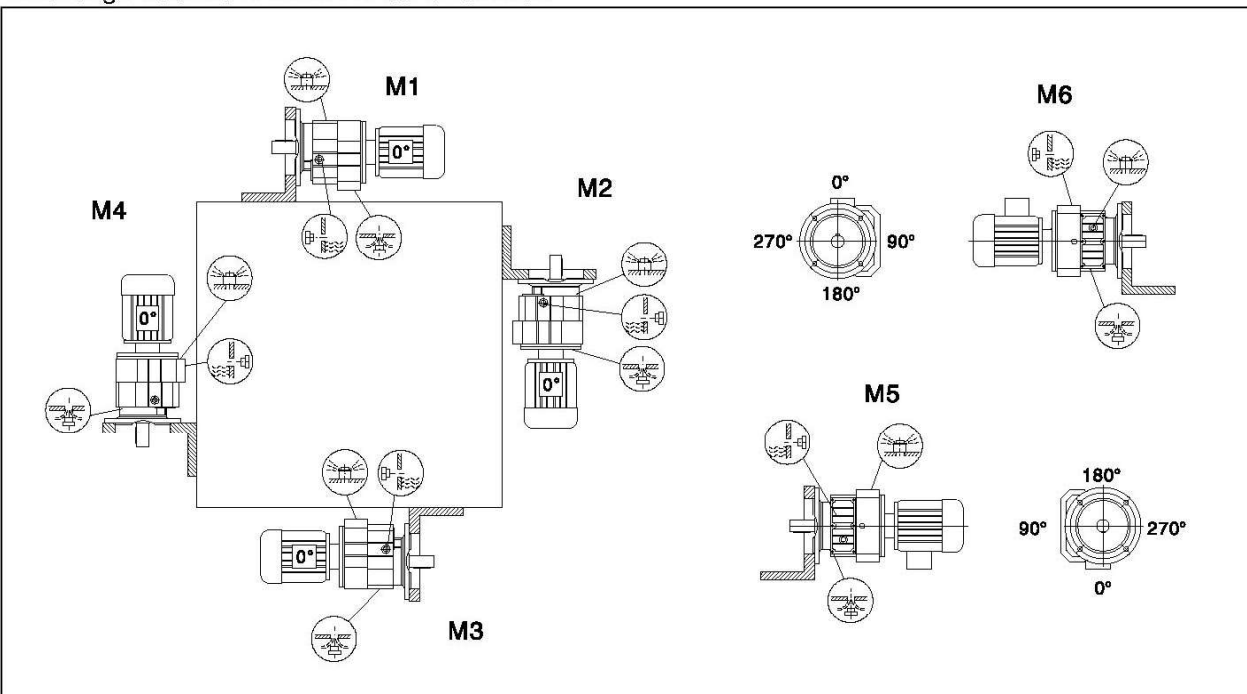
Note: Weight in the table means the weight when oil is not added. When input shaft is furnished, 10% weight should be added; if there is a motor, please add weight according to motor type.



Mounting Positions of Inline Helical Gearmotor

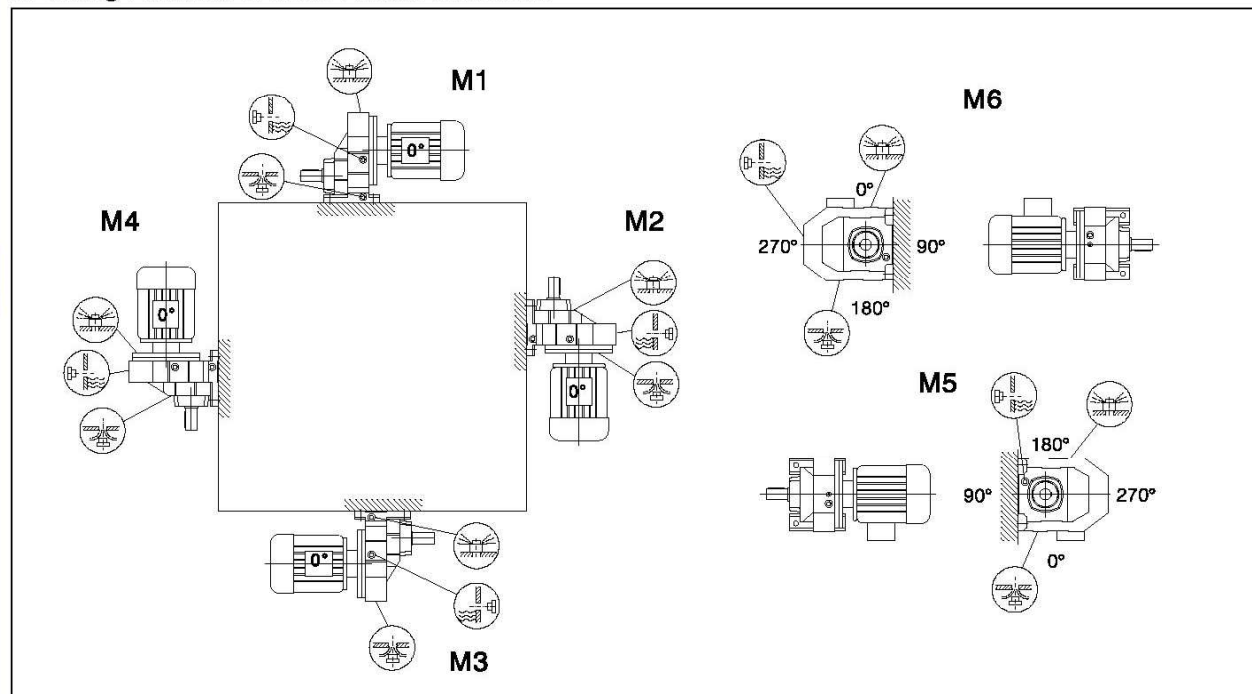


Mounting Positions of Inline Helical Gearmotor

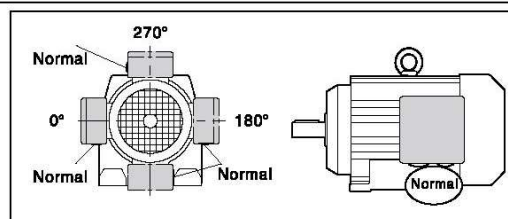
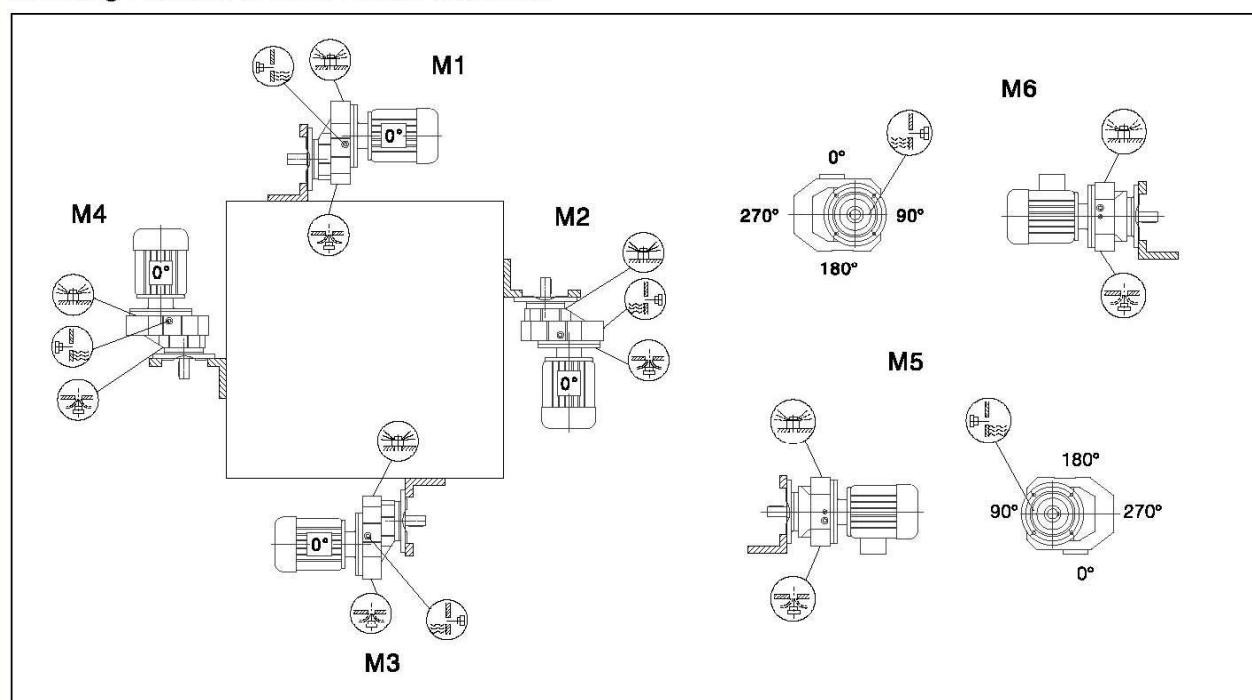




Mounting Positions of Inline Helical Gearmotor



Mounting Positions of Inline Helical Gearmotor





AR17		Data Table 1400r/min		Torque M2 Max 85NM Output shaft: 20mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
3.83	0.12~0.75	366.00	45	439.20	37	0.96
4.51	0.12~0.75	310.43	48	372.52	40	0.96
5.09	0.12~0.75	275.21	51	330.25	42	0.96
5.76	0.12~0.75	242.86	53	291.43	44	0.96
6.15	0.12~0.75	227.65	54	273.18	45	0.96
7.04	0.12~0.75	199.00	55	238.80	45	0.96
7.55	0.12~0.75	185.48	56	222.58	46	0.96
8.63	0.12~0.75	162.25	72	194.70	60	0.96
10.15	0.12~0.75	137.91	77	165.49	64	0.96
11.45	0.12~0.75	122.26	81	146.71	67	0.96
12.98	0.12~0.75	107.89	85	129.47	70	0.96
13.84	0.12~0.75	101.13	85	121.36	70	0.96
15.84	0.12~0.75	88.40	85	106.08	70	0.96
16.99	0.12~0.75	82.40	85	98.88	70	0.96
19.71	0.12~0.55	71.04	85	85.25	70	0.96
23.15	0.12~0.37	60.49	85	72.58	70	0.96
25.23	0.12~0.37	55.48	85	66.58	70	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
24.07	0.18~0.37	58.16	85	69.80	70	0.94
28.32	0.12~0.37	49.44	85	59.33	70	0.94
31.94	0.12~0.37	43.83	85	52.60	70	0.94
36.20	0.12~0.25	38.68	85	46.41	70	0.94
38.61	0.12~0.25	36.26	85	43.51	70	0.94
44.18	0.12~0.25	31.69	85	38.03	70	0.94
47.44	0.12~0.25	29.51	85	35.41	70	0.94
53.76	0.12~0.18	26.04	85	31.25	70	0.94
57.35	0.12~0.18	24.41	85	29.29	70	0.94
65.61	0.12~0.18	21.34	85	25.61	70	0.94
70.39	0.12kw	19.89	85	23.87	70	0.94
81.64	0.12kw	17.15	85	20.58	70	0.94



AR

AR37		Data Table 1400r/min		Torque M2 Max 200NM Output shaft (solid): 25mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
3.41	1.5-3.0	410.65	112	492.78	93	0.96
4.05	1.5-3.0	345.93	122	415.12	102	0.96
4.32	1.5-3.0	323.99	126	388.79	105	0.96
5.06	1.1-3.0	276.74	135	332.09	113	0.96
5.67	1.1-3.0	247.09	142	296.51	118	0.96
6.67	1.1-3.0	209.94	144	251.93	120	0.96
7.97	1.1-3.0	175.56	156	210.67	130	0.96
9.47	0.75-2.2	147.89	167	177.46	139	0.96
10.11	0.75-2.2	138.51	170	166.21	142	0.96
11.83	0.37-2.2	118.31	183	141.97	153	0.96
13.25	0.37-2.2	105.63	190	126.76	158	0.96
15.60	0.37-1.5	89.75	200	107.70	167	0.96
18.05	0.37-1.5	77.58	200	93.10	167	0.96
19.31	0.37-1.5	72.51	200	87.01	167	0.96
22.27	0.37kw	62.85	200	75.42	167	0.96
26.03	0.37kw	53.78	185	64.53	154	0.96
28.32	0.37kw	49.44	200	59.33	167	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
24.42	0.37-1.1	57.34	200	68.80	167	0.94
28.73	0.37-1.1	48.74	200	58.48	167	0.94
32.40	0.25-0.75	43.21	200	51.85	167	0.94
36.72	0.25-0.75	38.13	200	45.75	167	0.94
39.17	0.25-0.75	35.74	200	42.89	167	0.94
44.81	0.25-0.55	31.24	200	37.49	167	0.94
48.08	0.18-0.55	29.12	200	34.94	167	0.94
55.76	0.18-0.55	25.11	200	30.13	167	0.94
61.18	0.18-0.37	22.88	200	27.46	167	0.94
69.33	0.18-0.37	20.19	200	24.23	167	0.94
73.96	0.12-0.37	18.93	200	22.72	167	0.94
84.61	0.12-0.25	16.55	200	19.86	167	0.94
90.77	0.12-0.25	15.42	200	18.51	167	0.94
105.28	0.12-0.25	13.30	200	15.96	167	0.94
123.66	0.12-0.18	11.32	200	13.59	167	0.94
134.82	0.12-0.18	10.38	200	12.46	167	0.94



AR47		Data Table 1400r/min		Torque M2 Max 300NM Output shaft: 30mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
3.83	2.2-5.5	366.00	144	439.20	120	0.96
4.34	2.2-4.0	322.86	146	387.43	122	0.96
4.85	2.2-4.0	289.00	150	346.80	125	0.96
5.64	2.2-4.0	248.23	155	297.87	129	0.96
6.00	2.2-4.0	233.43	156	280.12	130	0.96
6.96	2.2-4.0	201.06	159	241.28	133	0.96
7.76	2.2-4.0	180.00	163	216.00	136	0.96
8.01	2.2-4.0	174.73	205	209.67	171	0.96
9.07	1.1-3.0	154.39	220	185.27	183	0.96
10.15	1.1-3.0	137.94	230	165.53	192	0.96
11.79	1.1-3.0	118.70	245	142.44	204	0.96
12.54	1.1-3.0	111.63	250	133.95	208	0.96
14.56	1.1-2.2	96.15	265	115.38	221	0.96
16.22	0.75-2.2	86.33	275	103.59	229	0.96
17.89	0.75-2.2	78.24	290	93.88	242	0.96
19.27	0.75-2.2	72.67	295	87.20	246	0.96
21.81	0.37-1.5	64.20	300	77.04	250	0.96
23.28	0.37-1.5	60.14	300	72.17	250	0.96
26.74	0.37-0.75	52.36	300	62.83	250	0.96
31.12	0.37kw	44.98	220	53.98	183	0.96
33.79	0.37kw	41.44	240	49.73	200	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
23.59	0.75-1.5	59.34	300	71.21	250	0.94
26.70	0.55-1.5	52.43	300	62.92	250	0.94
29.88	0.55-1.5	46.85	300	56.22	250	0.94
34.73	0.37-1.1	40.31	300	48.38	250	0.94
36.93	0.37-1.1	37.91	300	45.49	250	0.94
42.87	0.37-1.1	32.65	300	39.18	250	0.94
47.75	0.25-0.75	29.32	300	35.18	250	0.94
52.69	0.25-0.75	26.57	300	31.89	250	0.94
56.73	0.25-0.75	24.68	300	29.61	250	0.94
64.21	0.25-0.55	21.80	300	26.16	250	0.94
68.54	0.25-0.55	20.43	300	24.51	250	0.94
76.23	0.18-0.55	18.37	300	22.04	250	0.94
84.90	0.18-0.37	16.49	300	19.79	250	0.94
93.68	0.12-0.37	14.94	300	17.93	250	0.94
100.86	0.12-0.37	13.88	300	16.66	250	0.94
114.17	0.12-0.37	12.26	300	14.72	250	0.94
121.87	0.12-0.37	11.49	300	13.79	250	0.94
139.99	0.12-0.25	10.00	300	12.00	250	0.94
162.94	0.12-0.25	8.60	300	10.32	250	0.94
176.88	0.12kw	7.90	300	9.48	250	0.94



AR

AR57		Data Table 1400r/min		Torque M2 Max 450NM Output shaft: 35mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
4.39	3.0-7.5	318.84	280	382.61	233	0.96
5.05	3.0-7.5	277.48	305	332.97	254	0.96
5.82	3.0-7.5	240.36	320	288.43	267	0.96
6.41	3.0-7.5	218.44	335	262.13	279	0.96
7.53	3.0-7.5	185.99	350	223.19	292	0.96
7.97	2.2-5.5	175.62	355	210.75	296	0.96
9.06	2.2-4.0	154.52	375	185.42	313	0.96
9.35	2.2-5.5	149.72	370	179.67	308	0.96
10.79	2.2-5.5	129.69	390	155.63	325	0.96
11.88	1.5-5.5	117.87	405	141.44	338	0.96
13.95	1.5-4.0	100.36	430	120.43	358	0.96
14.77	1.5-4.0	94.76	435	113.72	363	0.96
16.79	1.1-4.0	83.37	450	100.05	375	0.96
18.60	0.75-3.0	75.27	450	90.32	375	0.96
21.93	0.75-3.0	63.84	450	76.61	375	0.96
24.99	0.75-1.5	56.01	450	67.22	375	0.96
26.31	0.75-1.5	53.21	450	63.86	375	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
26.97	0.75-2.2	51.92	450	62.30	375	0.94
30.18	0.75-2.2	46.39	450	55.66	375	0.94
35.07	0.55-1.5	39.92	450	47.90	375	0.94
37.30	0.55-1.5	37.54	450	45.04	375	0.94
43.30	0.55-1.5	32.33	450	38.80	375	0.94
48.23	0.37-1.1	29.03	450	34.84	375	0.94
53.22	0.37-1.1	26.31	450	31.57	375	0.94
57.29	0.37-1.1	24.44	450	29.32	375	0.94
64.85	0.37-0.75	21.59	450	25.91	375	0.94
69.23	0.25-0.75	20.22	450	24.27	375	0.94
80.55	0.25-0.75	17.38	450	20.86	375	0.94
89.71	0.18-0.75	15.61	450	18.73	375	0.94
98.99	0.18-0.55	14.14	450	16.97	375	0.94
106.58	0.18-0.55	13.14	450	15.76	375	0.94
120.63	0.18-0.55	11.61	450	13.93	375	0.94
128.77	0.12-0.37	10.87	450	13.05	375	0.94
147.92	0.12-0.37	9.46	450	11.36	375	0.94
172.17	0.12-0.37	8.13	450	9.76	375	0.94
186.89	0.12-0.37	7.49	450	8.99	375	0.94



AR67		Data Table 1400r/min		Torque M2 Max 600NM Output shaft: 35mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
4.29	4.0-7.5	326.09	270	391.30	225	0.96
4.93	4.0-7.5	283.78	290	340.54	242	0.96
5.70	4.0-7.5	245.82	310	294.98	258	0.96
6.27	4.0-7.5	223.40	330	268.09	275	0.96
7.36	4.0-7.5	190.22	370	228.26	308	0.96
7.79	2.2-7.5	179.62	380	215.54	317	0.96
8.70	2.2-7.5	160.92	440	193.10	367	0.96
10.00	2.2-7.5	140.04	470	168.05	392	0.96
11.54	2.2-5.5	121.31	500	145.57	417	0.96
12.70	2.2-5.5	110.25	520	132.30	433	0.96
14.91	2.2-5.5	93.87	550	112.64	458	0.96
15.79	2.2-5.5	88.64	560	106.37	467	0.96
17.95	1.5-4.0	77.98	590	93.58	492	0.96
19.89	1.1-4.0	70.40	600	84.48	500	0.96
23.44	1.1-3.0	59.71	560	71.66	467	0.96
26.72	1.1-1.5	52.39	540	62.87	450	0.96
28.13	1.1-1.5	49.77	540	59.73	450	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
28.83	1.1-2.2	48.56	520	58.27	433	0.94
32.27	1.1-2.2	43.39	540	52.06	450	0.94
37.50	1.1-2.2	37.33	570	44.80	475	0.94
39.88	1.1-2.2	35.11	580	42.13	483	0.94
46.29	0.75-1.5	30.24	600	36.29	500	0.94
51.56	0.75-1.5	27.15	600	32.58	500	0.94
56.89	0.37-1.5	24.61	600	29.53	500	0.94
61.26	0.37-1.5	22.86	600	27.43	500	0.94
69.75	0.37-1.1	20.07	600	24.08	500	0.94
74.17	0.37-1.1	18.87	600	22.65	500	0.94
86.11	0.25-1.1	16.26	600	19.51	500	0.94
95.91	0.25-0.75	14.60	600	17.52	500	0.94
105.83	0.18-0.75	13.23	600	15.87	500	0.94
113.94	0.18-0.75	12.29	600	14.74	500	0.94
128.97	0.18-0.55	10.86	600	13.03	500	0.94
137.67	0.18-0.55	10.17	600	12.20	500	0.94
158.14	0.18-0.55	8.85	600	10.62	500	0.94
184.07	0.12-0.37	7.61	600	9.13	500	0.94
199.81	0.12-0.37	7.01	600	8.41	500	0.94



AR77		Data Table 1400r/min		Torque M2 Max 820NM Output shaft (solid): 40mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
5.31	4.0-11	263.53	510	316.24	425	0.96
5.99	4.0-11	233.63	540	280.35	450	0.96
6.79	3.0-11	206.16	580	247.39	483	0.96
7.74	3.0-11	180.85	610	217.02	508	0.96
8.59	3.0-7.5	162.93	630	195.52	525	0.96
9.64	3.0-7.5	145.19	630	174.22	525	0.96
10.88	3.0-7.5	128.71	660	154.45	550	0.96
12.33	3.0-7.5	113.58	690	136.30	575	0.96
14.05	2.2-7.5	99.64	720	119.56	600	0.96
15.60	2.2-7.5	89.77	740	107.72	617	0.96
17.82	2.2-5.5	78.56	780	94.28	650	0.96
18.80	1.5-5.5	74.45	780	89.34	650	0.96
21.43	1.5-4.0	65.33	820	78.40	683	0.96
23.37	1.5-4.0	59.89	820	71.87	683	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
25.23	1.5-4.0	55.48	780	66.58	650	0.94
29.00	1.5-4.0	48.28	820	57.94	683	0.94
33.47	1.1-3.0	41.82	820	50.19	683	0.94
36.83	1.1-3.0	38.01	820	45.61	683	0.94
43.26	0.75-3.0	32.36	820	38.84	683	0.94
45.81	0.75-2.2	30.56	820	36.67	683	0.94
52.07	0.75-2.2	26.89	820	32.26	683	0.94
57.68	0.75-2.2	24.27	820	29.13	683	0.94
65.77	0.55-1.5	21.29	820	25.55	683	0.94
77.24	0.55-1.5	18.13	820	21.75	683	0.94
81.80	0.55-1.5	17.12	820	20.54	683	0.94
92.97	0.37-1.1	15.06	820	18.07	683	0.94
102.99	0.37-1.1	13.59	820	16.31	683	0.94
121.42	0.25-0.75	11.53	820	13.84	683	0.94
138.39	0.18-0.75	10.12	820	12.14	683	0.94
145.67	0.18-0.75	9.61	820	11.53	683	0.94
166.59	0.18-0.75	8.40	820	10.08	683	0.94
195.24	0.18-0.55	7.17	820	8.60	683	0.94



AR87		Data Table 1400r/min		Torque M2 Max1550NM Output shaft: 50mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
5.30	7.5-22	264.15	910	316.98	758	0.96
6.39	7.5-22	219.15	1020	262.98	850	0.96
7.13	5.5-22	196.23	1070	235.47	892	0.96
8.22	5.5-22	170.32	1160	204.38	967	0.96
9.14	5.5-18.5	153.13	1210	183.76	1008	0.96
9.90	5.5-18.5	141.54	1180	169.85	983	0.96
11.93	4.0-15	117.43	1230	140.92	1025	0.96
13.33	4.0-15	105.15	1280	126.18	1067	0.96
15.35	3.0-11	91.26	1340	109.52	1117	0.96
17.08	3.0-11	82.05	1390	98.47	1158	0.96
19.10	3.0-11	73.36	1440	88.04	1200	0.96
21.51	2.2-11	65.15	1500	78.18	1250	0.96
23.40	2.2-7.5	59.87	1550	71.85	1292	0.96
27.84	2.2-7.5	50.33	1550	60.39	1292	0.96
31.40	2.2-4.0	44.63	1550	53.56	1292	0.96
34.40	2.2-4.0	40.73	1500	48.88	1250	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
27.88	3.0-7.5	50.26	1550	60.31	1292	0.94
32.66	2.2-7.5	42.91	1550	51.49	1292	0.94
36.84	1.5-5.5	38.04	1550	45.65	1292	0.94
41.74	1.5-5.5	33.57	1550	40.28	1292	0.94
47.58	1.5-4.0	29.45	1550	35.34	1292	0.94
52.82	1.1-4.0	26.53	1550	31.84	1292	0.94
60.35	1.1-4.0	23.22	1550	27.86	1292	0.94
63.68	1.1-3.0	22.01	1550	26.41	1292	0.94
72.57	1.1-3.0	19.31	1550	23.17	1292	0.94
81.92	1.1-2.2	17.11	1550	20.53	1292	0.94
93.38	0.75-2.2	15.01	1550	18.01	1292	0.94
103.65	0.55-2.2	13.52	1550	16.22	1292	0.94
118.43	0.55-1.5	11.83	1550	14.20	1292	0.94
124.97	0.55-1.5	11.21	1550	13.46	1292	0.94
142.41	0.55-1.5	9.84	1550	11.81	1292	0.94
155.34	0.55-1.5	9.02	1550	10.82	1292	0.94
181.77	0.55-1.1	7.71	1550	9.25	1292	0.94
205.71	0.55-1.1	6.81	1550	8.17	1292	0.94
216.54	0.55-1.1	6.47	1550	7.77	1292	0.94
246.54	0.55-0.75	5.68	1550	6.82	1292	0.94



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AR97	Data Table 1400r/min			Torque M2 Max 3000NM Output shaft: 60mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
4.50	18.5-30	311.11	1630	373.33	1358	0.96
5.20	18.5-30	269.34	1780	323.21	1483	0.96
6.21	11.0-30	225.27	1890	270.32	1575	0.96
7.12	11.0-30	196.76	2000	236.11	1667	0.96
8.39	11.0-30	166.77	2030	200.12	1692	0.96
9.29	11.0-30	150.78	2030	180.94	1692	0.96
10.83	11.0-30	129.32	2090	155.18	1742	0.96
12.39	11.0-22	112.95	2190	135.54	1825	0.96
14.62	11.0-22	95.73	2300	114.88	1917	0.96
16.17	5.5-22	86.56	2400	103.87	2000	0.96
18.24	5.5-22	76.76	2500	92.11	2083	0.96
20.14	4.0-18.5	69.51	2610	83.41	2175	0.96
22.37	4.0-15	62.57	2720	75.09	2267	0.96
25.03	4.0-15	55.93	2830	67.11	2358	0.96
27.19	4.0-7.5	51.50	2560	61.80	2133	0.96
32.05	4.0-7.5	43.69	2560	52.42	2133	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
27.58	5.5-15	50.76	2670	60.91	2225	0.94
33.25	3.0-11	42.11	2890	50.53	2408	0.94
37.13	3.0-11	37.71	3000	45.25	2500	0.94
42.78	3.0-11	32.73	3000	39.27	2500	0.94
47.58	2.2-7.5	29.43	3000	35.31	2500	0.94
53.21	2.2-7.5	26.31	3000	31.57	2500	0.94
59.92	2.2-7.5	23.36	3000	28.04	2500	0.94
65.21	2.2-5.5	21.47	3000	25.76	2500	0.94
72.17	2.2-5.5	19.40	3000	23.28	2500	0.94
83.15	2.2-5.5	16.84	3000	20.20	2500	0.94
92.48	1.5-4	15.14	3000	18.17	2500	0.94
103.44	1.5-4	13.53	3000	16.24	2500	0.94
116.48	1.1-4	12.02	3000	14.42	2500	0.94
126.75	1.1-3	11.05	3000	13.25	2500	0.94
150.78	1.1-3	9.28	3000	11.14	2500	0.94
170.02	0.75-2.2	8.23	3000	9.88	2500	0.94
186.30	0.75-2.2	7.51	3000	9.02	2500	0.94
216.28	0.55-2.2	6.50	3000	7.80	2500	0.94
241.25	0.55-1.5	5.80	3000	6.96	2500	0.94
255.71	0.55-1.5	5.47	3000	6.57	2500	0.94
289.74	0.55-0.75	4.83	3000	5.80	2500	0.94



AR107		Data Table 1400r/min		Torque M2 Max 4300NM Output shaft (solid): 70mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
4.92	30-45	298.52	2900	358.23	2417	0.96
5.82	22-45	252.41	2970	302.89	2475	0.96
6.66	18.5-45	220.61	2970	264.74	2475	0.96
7.86	18.5-45	187.12	2970	224.55	2475	0.96
8.56	22-45	171.66	4300	205.99	3583	0.96
10.13	18.5-45	145.14	4300	174.17	3583	0.96
11.59	18.5-45	126.86	4300	152.23	3583	0.96
13.66	15-45	107.60	4300	129.12	3583	0.96
15.65	15-45	93.92	4300	112.71	3583	0.96
18.21	11-37	80.73	4300	96.87	3583	0.96
20.07	11-30	73.26	4300	87.91	3583	0.96
22.62	7.5-22	65.00	4300	78.00	3583	0.96
24.90	7.5-22	59.04	4300	70.84	3583	0.96
27.58	7.5-15	53.30	4300	63.96	3583	0.96
30.77	7.5-15	47.77	4300	57.32	3583	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
29.49	7.5-22	49.84	4300	59.81	3583	0.94
35.26	7.5-18.5	41.69	4300	50.03	3583	0.94
40.37	5.5-15	36.41	4300	43.69	3583	0.94
47.63	5.5-11	30.86	4300	37.03	3583	0.94
52.68	4-11	27.90	4300	33.48	3583	0.94
59.41	4-11	24.74	4300	29.69	3583	0.94
65.60	4-7.5	22.41	4300	26.89	3583	0.94
72.88	3-7.5	20.17	4300	24.21	3583	0.94
78.57	3-7.5	18.71	4300	22.45	3583	0.94
92.70	2.2-7.5	15.86	4300	19.03	3583	0.94
102.53	2.2-5.5	14.34	4300	17.20	3583	0.94
115.63	2.2-5.5	12.71	4300	15.26	3583	0.94
127.68	2.2-4	11.51	4300	13.82	3583	0.94
141.83	2.2-4	10.36	4300	12.44	3583	0.94
158.68	2.2-4	9.26	4300	11.12	3583	0.94
172.34	2.2-4	8.53	4300	10.24	3583	0.94
203.16	2.2-3	7.24	4300	8.68	3583	0.94
229.95	2.20KW	6.39	4300	7.67	3583	0.94
251.15	2.20KW	5.85	4300	7.02	3583	0.94



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AR137		Data Table 1400r/min		Torque M2 Max 8000NM Output shaft: 90mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
5.15	37-55	272.00	4600	326.40	3833	0.96
6.38	30-55	219.00	5110	262.80	4258	0.96
7.59	30-55	184.00	5110	220.80	4258	0.96
8.71	30-55	161.00	7840	193.20	6533	0.96
10.79	30-55	130.00	8000	156.00	6667	0.96
12.83	18.5-55	109.00	8000	130.80	6667	0.96
14.51	18.5-55	96.00	8000	115.20	6667	0.96
16.80	18.5-55	83.00	8000	99.60	6667	0.96
19.04	18.5-55	74.00	8000	88.80	6667	0.96
22.00	18.5-45	64.00	8000	76.80	6667	0.96
24.12	18.5-45	58.00	8000	69.60	6667	0.96
29.57	18.5-22	47.00	7780	56.40	6483	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
27.83	5.5-45	50.00	7680	60.00	6400	0.94
32.91	5.5-45	43.00	8000	51.60	6667	0.94
37.65	5.5-45	37.00	8000	44.40	6667	0.94
44.39	5.5-45	32.00	8000	38.40	6667	0.94
50.86	5.5-45	28.00	8000	33.60	6667	0.94
59.17	5.5-22	24.00	8000	28.80	6667	0.94
65.20	5.5-22	21.00	8000	25.20	6667	0.94
73.49	5.5-22	19.00	8000	22.80	6667	0.94
80.91	5.5-22	17.00	8000	20.40	6667	0.94
88.70	5.5-15	16.00	8000	19.20	6667	0.94
103.20	5.5-15	14.24	8000	17.09	6667	0.94
113.72	5.5-15	12.00	8000	14.40	6667	0.94
128.18	5.5-15	11.00	8000	13.20	6667	0.94
141.12	5.5-15	9.90	8000	11.88	6667	0.94
156.31	5.5-7.5	9.00	8000	10.80	6667	0.94
174.40	5.5-7.5	8.00	8000	9.60	6667	0.94
188.45	5.5-7.5	7.40	8000	8.88	6667	0.94
222.60	5.5-7.5	6.30	8000	7.56	6667	0.94



AR147		Data Table 1400r/min		Torque M2 Max 13000NM Output shaft: 110mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
5.00	75-90	280.00	8670	336.00	7225	0.96
5.89	55-90	238.00	8670	285.60	7225	0.96
7.25	45-90	193.00	8670	231.60	7225	0.96
8.28	75-90	169.00	13000	202.80	10833	0.96
9.76	55-90	144.00	13000	172.80	10833	0.96
12.01	45-90	117.00	13000	140.40	10833	0.96
13.93	37-90	101.00	12600	121.20	10500	0.96
15.66	30-90	90.00	13000	108.00	10833	0.96
18.06	30-90	78.00	10500	93.60	8750	0.96
20.47	30-90	68.00	12000	81.60	10000	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
24.23	30-75	58.00	11900	69.60	9917	0.94
30.00	22-55	47.00	13000	56.40	10833	0.94
35.69	22-55	39.00	13000	46.80	10833	0.94
40.35	18.5-45	35.00	13000	42.00	10833	0.94
46.73	15-45	30.00	13000	36.00	10833	0.94
52.96	11-37	26.00	13000	31.20	10833	0.94
61.19	11-30	23.00	13000	27.60	10833	0.94
67.09	11-30	21.00	13000	25.20	10833	0.94
72.20	11-30	19.00	13000	22.80	10833	0.94
83.60	11-22	17.00	13000	20.40	10833	0.94
94.75	11-22	15.00	13000	18.00	10833	0.94
109.48	11-18.5	13.00	13000	15.60	10833	0.94
120.04	11-15	12.00	13000	14.40	10833	0.94
147.14	11KW	9.50	13000	11.40	10833	0.94
163.57	11KW	8.60	13000	10.32	10833	0.94



AR167		Data Table 1400r/min		Torque M2 Max 18000NM Output shaft: 120mm		
2 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
10.24	75-160	137.00	17000	164.40	14167	0.96
11.99	55-160	117.00	17000	140.40	14167	0.96
14.48	55-160	97.00	18000	116.40	15000	0.96
16.98	37-132	82.00	15000	98.40	12500	0.96
19.03	37-132	74.00	16000	88.80	13333	0.96
21.85	37-90	64.00	13000	76.80	10833	0.96
24.57	37-90	57.00	14000	68.40	11667	0.96
30.71	37-45	46.00	10000	55.20	8333	0.96
37.74	37-45	37.00	9000	44.40	7500	0.96
46.00	37-45	30.00	7000	36.00	5833	0.96

3 Stages		50HZ		60HZ		Eff. (RD)
Ratio (i)	Nominal Power min-max (kW1)	Output Speed (n2)	Torque (M2)	Output Speed (n2)	Torque (M2)	
23.71	30-90	59.00	18000	70.80	15000	0.94
27.96	30-90	50.00	18000	60.00	15000	0.94
34.41	30-75	41.00	18000	49.20	15000	0.94
39.92	30-75	35.00	18000	42.00	15000	0.94
44.87	22-55	31.00	18000	37.20	15000	0.94
51.76	22-55	27.00	18000	32.40	15000	0.94
58.65	18.5-45	24.00	18000	28.80	15000	0.94
67.40	15-37	21.00	18000	25.20	15000	0.94
73.70	15-37	19.00	18000	22.80	15000	0.94
82.91	11-30	17.00	18000	20.40	15000	0.94
93.19	11-30	15.00	18000	18.00	15000	0.94
107.49	11-22	13.00	18000	15.60	15000	0.94
121.81	11-22	11.00	18000	13.20	15000	0.94
139.98	11-18.5	10.00	18000	12.00	15000	0.94
153.07	11-18.5	9.10	18000	10.92	15000	0.94
186.93	11-15	7.50	18000	9.00	15000	0.94
229.71	11.00kw	6.10	18000	7.32	15000	0.94



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.12KW						0.12KW					
0.06	14300	21342	0.90	AR147 AR77 ARF147AR77	4P	0.97	950	1430	0.85	AR77 AR37 ARF77AR37	4P
0.08	12000	18210	1.10			1.1	900	1303	0.90		
0.09	10300	15923	1.25			1.2	770	1124	1.05		
0.10	9440	14075	1.40			1.3	715	1047	1.15		
0.11	7830	12344	1.70			1.5	615	915	1.35		
0.12	6780	11143	1.9			0.99	940	1394	0.85		
0.14	6020	9743	2.2			1.1	785	1218	1.05		
0.16	4960	8443	2.6			1.3	710	1084	1.15		
0.19	4290	7307	3.0			1.5	635	940	1.30		
0.21	3780	6447	3.4			1.7	505	821	1.60		
0.25	3270	5568	4.0			1.9	460	731	1.80		
0.11	8390	12921	0.95	AR137 AR77 ARF137AR77	4P	2.1	440	646	1.85	AR67 AR37 ARF67AR37	4P
0.12	7240	11712	1.10			2.7	365	520	2.3		
0.13	6430	10573	1.25			3.1	310	451	2.6		
0.16	5160	8784	1.55			3.3	290	422	2.8		
0.18	4270	7479	1.85			3.8	245	365	3.3		
0.21	4060	6559	1.95			1.4	655	956	0.90		
0.24	3330	5834	2.4	AR107 AR77 ARF107AR77	4P	1.5	605	891	1.00	AR67 AR37 ARF67AR37	4P
0.27	3160	5116	2.5			1.9	490	730	1.25		
0.18	4500	7583	0.95			2.1	425	644	1.40		
0.20	3850	6743	1.10			2.4	375	571	1.60		
0.23	3660	5914	1.20			2.8	315	486	1.90		
0.27	2950	5168	1.45			1.6	565	836	1.05		
0.31	2600	4435	1.65			1.8	475	750	1.25		
0.35	2310	3896	1.85			2.1	420	646	1.40		
0.45	1880	3039	2.3			2.4	380	574	1.55		
0.35	2670	3918	1.6			2.8	330	495	1.80		
0.41	2240	3343	1.9	AR97 AR57 ARF97AR57	4P	3.2	275	438	2.2	AR57 AR37 ARF57AR37	4P
0.45	2030	3034	2.1			1.8	525	782	0.85		
0.52	1750	2653	2.5			2.0	440	678	1.05		
0.61	1500	2280	2.9			2.3	395	604	1.15		
0.67	1300	2067	3.3			2.6	360	537	1.25		
0.30	2950	4559	1.00			2.9	315	471	1.45		
0.34	2500	4004	1.20			3.9	235	357	1.95		
0.40	2200	3481	1.35			4.3	205	319	2.2		
0.29	3240	4678	0.90			3.8	245	369	1.80		
0.32	2970	4309	1.00			4.3	225	324	2.0		
0.37	2510	3702	1.20	AR87 AR57 ARF87AR57	4P	4.8	196	290	2.3	AR47 AR37 ARF47AR37	4P
0.46	2010	3019	1.5			5.3	177	262	2.5		
0.52	1750	3668	1.70			5.6	164	246	2.8		
0.61	1440	2245	2.1			6.3	144	220	3.1		
0.68	1280	2016	2.3			2.4	375	572	0.80		
0.80	1160	1733	2.6			2.7	330	510	0.90		
0.45	2020	3065	1.5			3.2	275	436	1.10		
0.51	1790	2722	1.65			3.4	255	408	1.15		
0.60	1510	2311	2.0			4.0	210	344	1.40		
0.66	1360	2078	2.2			2.8	355	502	0.85		
0.76	1170	1823	2.6	AR87 AR57 ARF87AR57	4P	3.2	300	429	1.00	AR37 AR17 ARF37AR17	4P
0.87	1020	1583	3.0			3.7	255	372	1.15		
0.99	860	1396	3.5			4.0	240	348	1.25		
1.1	740	1228	4.1			4.6	205	301	1.50		
0.48	1740	2873	0.90			5.4	169	255	1.75		
0.70	1260	1961	1.25			6.1	150	228	2.0		
0.50	1850	2770	0.85			7.1	125	195	2.4		
0.53	1730	2595	0.90			4.1	220	338	0.90		
0.65	1390	2129	1.10			4.7	205	296	1.00		
0.72	1240	1930	1.25			5.3	176	259	1.15		
0.80	1100	1733	1.40	AR87 AR57 ARF87AR57	4P	6.1	155	228	1.30		
0.79	1090	1737	1.40			6.9	134	199	1.50		
0.91	960	1524	1.60			8.0	117	172	1.70		
1.1	775	1303	2.0			4.2	230	328	0.90		
1.2	680	1143	2.3			4.8	197	289	1.00		
1.6	555	885	2.8			5.2	184	265	1.10		
1.8	485	776	3.2			6.1	151	226	1.35		
2.0	430	685	3.6			6.8	138	202	1.45		
2.3	345	599	4.5			7.7	120	179	1.65		

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.12KW						0.12KW					
6.0	152	229	0.85	AR27 AR17 ARF27AR17	4P	10	112	135.09	1.15	AR27 ARF27	4P
6.9	132	200	1.00			11	103	123.91	1.25		
7.8	116	177	1.10			13	88	105.49	1.50		
8.3	111	166	1.15			15	76	90.96	1.70		
6.1	151	227	0.85			16	70	84.78	1.85		
6.8	138	203	0.95			19	62	74.11	2.1		
7.7	121	179	1.10			20	58	69.47	2.2		
8.8	102	156	1.25			23	51	61.30	2.5		
4.6	250	195.24	3.3	AR77 ARF77	6P	25	46	55.87	2.8	AR17 ARF17	6P
5.4	210	166.59	3.9			29	40	48.17	3.2		
6.2	186	145.67	4.4			31	37	44.90	3.5		
4.5	255	199.81	2.4	AR67 ARF67	6P	11	104	81.64	0.80	AR17 ARF17	6P
4.9	235	184.07	2.6			13	90	70.39	0.95		
5.7	200	158.14	3.0			14	84	65.61	1.00		
6.5	175	137.67	3.4			16	73	57.35	1.15		
7.0	164	128.97	3.7			17	68	53.76	1.25		
7.9	145	113.94	4.1	AR67 ARF67	4P	19	60	47.44	1.40		
6.9	166	199.81	3.6			17	68	81.64	1.25	AR17 ARF17	4P
7.5	153	184.07	3.9			20	58	70.39	1.45		
4.8	240	186.89	1.90	AR57 ARF57	6P	21	55	65.61	1.55		
5.2	220	172.17	2.0			24	48	57.35	1.80		
6.1	188	147.92	2.4			26	45	53.76	1.90		
7.0	164	128.77	2.7			29	39	47.44	2.2		
7.5	154	120.63	2.9			31	37	44.18	2.3		
8.4	136	106.58	3.3			36	32	38.61	2.7		
9.1	126	98.99	3.6			38	30	36.20	2.8		
7.4	155	186.89	2.9	AR57 ARF57	4P	43	27	31.94	3.2		
8.0	143	172.17	3.2			49	24	28.32	3.6		
9.3	123	147.92	3.7			57	20	24.07	4.2		
11	107	128.77	4.2			55	21	25.23	4.1		
5.1	225	176.88	1.35	AR47 ARF47	6P	60	19	23.15	4.4		
5.5	210	162.94	1.45			70	16	19.71	5.2		
6.4	178	139.99	1.70			81	14	16.99	6.0		
7.4	155	121.87	1.95			87	13	15.84	6.4		
7.8	147	176.88	2.0	AR47 ARF47	4P	100	12	13.84	7.4		
8.5	135	162.94	2.2			106	11	12.98	7.9		
9.9	116	139.99	2.6			121	9.5	11.45	8.5		
11	101	121.87	3.0			136	8.4	10.15	9.2		
12	95	114.17	3.2			160	7.2	8.63	10		
14	84	100.86	3.6			183	6.3	7.55	8.9		
15	78	93.68	3.9			196	5.8	7.04	9.5		
6.7	172	134.82	1.15	AR37 ARF37	6P	224	5.1	6.15	11	AR61 ARF61	4P
7.3	157	123.66	1.25			239	4.8	5.76	11		
8.6	134	105.28	1.50			271	4.2	5.09	12		
9.9	116	90.77	1.75			306	3.7	4.51	13		
11	108	84.61	1.85			360	3.2	3.83	14		
12	94	73.96	2.1			227	5.0	6.07	8.6	AR51 ARF51	4P
10	112	134.82	1.80	AR37 ARF37	4P	267	4.3	5.18	17		
11	103	123.66	1.95			305	3.8	4.53	22		
13	87	105.28	2.3			321	3.6	4.30	22		
15	75	90.77	2.7			251	4.6	5.50	8.5		
16	70	84.61	2.8			272	4.2	5.07	8.6		
19	61	73.96	3.3	AR27 ARF27	6P	317	3.6	4.35	19		
7.3	158	123.91	0.80			364	3.1	3.79	22		
8.5	134	105.49	0.95			389	2.9	3.55	24		
9.9	116	90.96	1.10			440	2.6	3.14	25		
11	108	84.78	1.20			474	2.4	2.91	28		
12	94	74.11	1.40			523	2.2	2.64	31		
						582	2.0	2.37	35		
						676	1.7	2.04	41		
						719	1.6	1.92	43		
						835	1.4	1.65	49		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.18KW						0.18KW					
0.09	15500	14075	0.85	AR147 AR77 ARF147AR77	4P	1.5	950	858	0.85	AR77 AR37 ARF77AR37	4P
0.11	12900	12344	1.00			1.7	830	575	1.00		
0.12	11600	11143	1.10			2.0	735	671	1.10		
0.14	10200	9743	1.25			2.3	620	571	1.35		
0.16	8590	8443	1.50			1.6	870	821	0.95		
0.18	7430	7307	1.75			1.8	780	731	1.05		
0.20	6560	6447	2.0			2.0	720	646	1.15		
0.24	5660	5568	2.3			2.4	625	560	1.30		
0.27	5120	4926	2.5			2.7	530	488	1.55		
0.31	4430	4325	2.9			3.0	470	436	1.75		
0.35	3900	3754	3.3	AR137 AR77 ARF137AR77	4P	3.5	405	373	2.0	AR67 AR37 ARF67AR37	4P
0.40	3380	3302	3.8			4.0	355	327	2.3		
0.15	8930	8784	0.90			4.6	320	289	2.6		
0.18	7490	7479	1.05			2.3	625	571	0.95		
0.20	6880	6559	1.15			2.7	525	486	1.15		
0.23	5840	5834	1.35			2.3	635	574	0.95		
0.26	5370	5116	1.50			2.7	545	495	1.10		
0.30	4540	4464	1.75			3.0	465	438	1.30		
0.34	4000	3928	2.0			3.4	415	388	1.45		
0.28	5260	4709	1.50			3.8	380	344	1.60		
0.33	4450	4018	1.80	AR107 AR77 ARF107AR77	4P	4.5	310	294	1.95	AR57 AR37 ARF57AR37	4P
0.38	3850	3514	2.1			5.1	280	261	2.1		
0.40	3640	3338	2.2			2.9	490	454	0.90		
0.45	3160	2929	2.5			3.2	445	410	1.00		
0.30	4510	4435	0.95			2.8	520	471	0.85		
0.34	3990	3896	1.10			3.7	390	357	1.15		
0.43	3190	3039	1.35			4.1	345	319	1.30		
0.34	4380	3918	1.00			4.8	290	273	1.55		
0.39	3700	3343	1.15			5.5	255	241	1.75		
0.44	3360	3034	1.30			6.1	225	215	2.0		
0.50	2910	2653	1.50	AR97 AR57 ARF97AR57	4P	3.7	405	359	1.10	AR47 AR37 ARF47AR37	4P
0.58	2500	2280	1.70			4.1	365	324	1.25		
0.64	2200	2067	1.95			4.6	325	290	1.40		
0.66	2050	1987	2.1			5.0	295	262	1.55		
0.72	1840	1827	2.3			5.3	275	246	1.65		
0.83	1580	1599	2.7			6.0	240	220	1.85		
0.94	1410	1400	3.1			7.0	205	188	2.2	AR37 AR17 ARF37AR17	4P
1.1	1210	1226	3.6			8.3	172	159	2.6		
0.49	2920	2668	1.05	AR87 AR57 ARF87AR57	4P	4.4	335	301	0.90		
0.59	2420	2245	1.25			5.2	285	255	1.05		
0.65	2160	2016	1.40			5.8	250	228	1.20		
0.76	1920	1733	1.55			6.8	210	195	1.40		
0.81	1790	1623	1.70			6.6	220	199	0.90	AR27 AR17 ARF27AR17	4P
0.92	1570	1434	1.90			7.7	192	172	1.05		
1.1	1300	1207	2.3			8.8	167	150	1.20		
1.2	1160	1084	2.6			5.8	250	226	0.80		
1.4	990	934	3.0			6.5	230	202	0.90		
1.5	920	878	3.2			7.4	200	179	1.00		
1.8	785	755	3.8			8.5	171	156	1.15		
0.49	2980	2722	1.00	AR87 AR57 ARF87AR57	4P	9.4	153	141	0.85	AR77 ARF77	6P
0.57	2520	2311	1.20			11	135	124	0.95		
0.64	2270	2078	1.30			12	121	110	1.10		
0.76	1850	1733	0.85			14	102	94	1.30		
0.89	1650	1489	0.95			9.8	148	135	0.90		
0.95	1540	1395	1.00			11	134	118	0.95		
1.1	1350	1232	1.15			13	117	104	1.10		
1.1	1250	1145	1.25			15	101	90	1.30		
1.3	1120	1037	1.40			4.5	385	195.24	2.1		
1.4	1000	931	1.55			5.2	330	166.59	2.5		
1.6	850	802	1.85	AR87 AR57 ARF87AR57	4P	6.0	290	145.67	2.8		
0.76	1850	1737	0.85			6.3	275	138.39	3.0		
0.87	1620	1524	0.95			7.2	240	121.42	3.4		
1.0	1350	1303	1.15								
1.2	1180	1143	1.30								
1.5	940	885	1.65								
1.7	830	776	1.90								

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole
0.18KW						0.18KW					
6.8	255	195.24	3.2	AR77 ARF77	4P	11	161	123.91	0.80	AR27 ARF27	4P
7.9	215	166.59	3.8			13	137	105.49	0.95		
9.1	190	145.67	4.3			15	118	90.96	1.10		
9.5	180	138.39	4.6			16	110	84.78	1.20		
						18	97	74.11	1.35		
4.3	395	199.81	1.50	AR67 ARF67	6P	19	91	69.47	1.45		
4.7	365	184.07	1.65			22	80	61.30	1.65		
5.5	310	158.14	1.90			24	73	55.87	1.80		
6.3	270	137.67	2.2			27	63	48.17	2.1		
6.8	255	128.97	2.3			29	59	44.90	2.2		
7.6	225	113.94	2.7			34	51	39.25	2.5		
8.2	210	105.83	2.9			36	48	36.79	2.7		
9.1	190	95.91	3.2			41	42	32.47	3.1		
10	170	86.11	3.5			46	38	28.78	3.5		
12	147	74.17	4.1			54	32	24.47	4.1		
12	138	69.75	4.3			47	37	28.37	3.5		
6.6	260	199.81	2.3	AR67 ARF67	4P	51	34	26.09	3.8		
7.2	240	184.07	2.5			59	29	22.32	4.5		
8.4	205	158.14	2.9			68	25	19.35	5.2		
9.6	179	137.67	3.3			73	24	18.08	5.5		
10	168	128.97	3.6			84	20	15.63	6.4		
12	148	113.94	4.0	AR57 ARF57	6P	99	17	13.28	7.5	AR17 ARF17	4P
12	138	105.83	4.3			16	106	81.64	0.80		
4.7	370	186.89	1.20			19	92	70.39	0.95		
5.1	340	172.17	1.30			20	85	65.61	1.00		
5.9	290	147.92	1.55			23	75	57.35	1.15		
6.8	255	128.77	1.75	AR57 ARF57	4P	25	70	53.76	1.20		
7.2	240	120.63	1.90			28	62	47.44	1.40		
7.1	245	186.89	1.85			30	58	44.18	1.50		
7.7	225	172.17	2.0			34	50	38.61	1.70		
8.9	193	147.92	2.3			36	47	36.20	1.80		
10	168	128.77	2.7	AR47 ARF47	4P	41	42	31.94	2.0		
11	157	120.63	2.9			47	37	28.32	2.3		
12	139	106.58	3.2			55	31	24.07	2.7		
13	129	98.99	3.5			52	33	25.23	2.6		
15	117	89.71	3.8			57	30	23.15	2.8		
7.5	230	176.88	1.30	AR37 ARF37	6P	67	26	19.71	3.3		
8.1	210	162.94	1.40			78	22	16.99	3.8		
9.4	182	139.99	1.65			83	21	15.84	4.1		
11	159	121.87	1.90			95	18	13.84	4.7		
12	149	114.17	2.0			102	17	12.98	5.0		
13	131	100.86	2.3	AR37 ARF37	4P	115	15	11.45	5.4		
14	122	93.68	2.5			130	13	10.15	5.8		
16	111	84.90	2.7			153	11	8.63	6.4		
17	99	76.23	3.0			175	9.8	7.55	5.7		
7.0	245	123.66	0.80			188	9.2	7.04	6.0		
8.3	210	105.28	0.95	AR37 ARF37	6P	215	8.0	6.15	6.8		
9.6	179	90.77	1.10			229	7.5	5.76	7.1		
10	167	84.61	1.20			259	6.6	5.09	7.7		
9.8	176	134.82	1.15			293	5.9	4.51	8.1		
11	161	123.66	1.25			344	5.0	3.83	9.0		
13	137	105.28	1.45	AR37 ARF37	4P	268	6.4	10.15	12	AR17 ARF17	2P
15	118	90.77	1.70			315	5.5	8.63	13		
16	110	84.61	1.80			360	4.8	7.55	12		
18	96	73.96	2.1			387	4.4	7.04	13		
19	90	69.33	2.2			442	3.9	6.15	14		
22	80	61.18	2.5			472	3.6	5.76	15		
24	73	55.76	2.8			535	3.2	5.09	16		
27	63	48.08	3.2			603	2.8	4.51	17		
						710	2.4	3.83	19		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.18KW						0.25KW					
143	12	6.07	3.6	AR61 ARF61	6P	0.93	2100	1400	2.0	AR107 R77 ARF107R77	4P
168	10	5.18	7.3			1.1	1810	1226	2.4		
192	8.9	4.53	9.2			1.4	1410	939	3.0		
202	8.5	4.30	9.4			1.6	1220	822	3.5		
218	7.9	6.07	5.4	AR61 ARF61	4P	0.64	3160	2016	0.95	AR97 AR57 ARF97AR57	4P
255	6.7	5.18	11			0.75	2780	1733	1.10		
292	5.9	4.53	14			0.80	2590	1623	1.15		
307	5.6	4.30	14			0.71	2870	1823	1.05		
350	4.9	3.77	18			0.82	2490	1583	1.20		
413	4.2	3.20	24			0.93	2160	1396	1.40		
457	3.8	2.89	28			1.1	1880	1228	1.60		
519	3.3	2.54	36			1.2	1700	1069	1.75		
550	3.1	2.40	40			1.4	1480	938	2.0		
646	2.7	2.04	50			1.6	1260	824	2.4		
158	11	5.50	3.6	AR51 ARF51	6P	1.8	1130	737	2.7	AR87 AR57 ARF87AR57	4P
172	10	5.07	3.6			2.1	970	632	3.1		
200	8.6	4.35	7.9			1.1	1810	1145	0.85		
230	7.5	3.79	9.2			1.2	1630	1037	0.95		
240	7.2	5.50	5.4	AR51 ARF51	4P	1.4	1460	931	1.05		
261	6.6	5.07	5.4			1.6	1250	802	1.25		
303	5.7	4.35	12			1.1	1750	1143	0.90		
348	4.9	3.79	14			1.5	1380	885	1.10		
372	4.6	3.55	15			1.7	1210	776	1.30		
421	4.1	3.14	16			1.9	1070	685	1.45		
453	3.8	2.91	18			2.2	900	599	1.70		
500	3.4	2.64	20			2.5	795	525	1.95		
557	3.1	2.37	22			2.8	695	456	2.2		
647	2.7	2.04	26			4.9	405	268	3.8		
688	2.5	1.92	28	AR147 R77 ARF147R77	4P	2.3	900	571	0.90	AR77 AR37 ARF77AR37	4P
799	2.2	1.65	31			2.3	900	560	0.90		
0.13	15000	9743	0.85			2.7	775	488	1.05		
0.15	12700	8443	1.00			3.0	690	436	1.20		
0.18	11000	7307	1.20			3.5	590	373	1.40		
0.20	9700	6447	1.35			4.0	520	327	1.60		
0.23	8380	5568	1.55			4.5	460	289	1.80		
0.26	7520	4926	1.75			5.0	410	260	2.0		
0.30	6540	4325	2.0			5.8	345	224	2.4		
0.35	5730	3754	2.3			3.3	605	388	1.00	AR67 R37 ARF67R37	4P
0.39	4990	3302	2.6	AR137 R77 ARF137R77	4P	3.8	550	344	1.10		
0.45	4360	2898	3.0			4.4	455	294	1.30		
0.22	8680	5834	0.90			5.0	410	261	1.45		
0.25	7860	5116	1.00			5.6	370	234	1.60		
0.29	6720	4464	1.20			6.5	315	200	1.90		
0.33	5910	3928	1.35			7.4	270	176	2.2		
0.38	5100	3400	1.50			8.2	245	158	2.5		
0.42	4400	2960	1.75			3.4	630	384	0.95		
0.46	3800	2560	2.0			3.6	585	359	1.05		
0.50	3300	2200	2.3			4.2	505	310	1.20		
0.55	2900	1900	2.6	AR107 R77 ARF107R77	4P	4.9	425	264	1.40	AR57 R37 ARF57R37	4P
0.60	2500	1650	3.0			5.5	375	235	1.60		
0.65	2200	1400	3.5			6.5	320	201	1.90		
0.70	1900	1200	4.0			7.2	290	181	2.1		
0.75	1700	1050	4.5			4.1	505	319	0.90		
0.80	1500	900	5.0			4.8	425	273	1.05		
0.85	1300	750	5.5			5.4	375	241	1.20		
0.90	1100	600	6.0			6.1	335	215	1.35		
0.95	1000	500	6.5			6.9	295	187	1.55		
1.00	900	400	7.0			7.9	255	164	1.75		
0.43	4670	3039	0.90	AR107 R77 ARF107R77	4P	9.2	220	142	2.0		
0.43	4860	3034	0.90			4.0	530	324	0.85		
0.65	3030	1987	1.40			4.5	470	290	0.95		
0.71	2740	1827	1.55			5.0	425	262	1.05		
0.81	2370	1599	1.80			5.3	395	246	1.15		
						5.9	355	220	1.30		

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.25KW						0.25KW					
5.7	365	228	0.80	AR47 R37 ARF47R37	4P	8.3	290	106.58	1.55	AR57 ARF57	6P
6.7	310	195	0.95			8.9	270	98.99	1.70		
7.1	290	182	1.05			7.0	345	186.89	1.30	AR57 ARF57	4P
8.5	240	154	1.25			7.6	315	172.17	1.40		
8.7	240	150	0.85	AR37 R17 ARF37R17	4P	8.8	270	147.92	1.65		
10	205	130	0.95			10	235	128.77	1.90		
10	196	124	1.00			11	220	120.63	2.0		
12	174	110	1.15			12	196	106.58	2.3		
14	148	94	1.35			13	182	98.99	2.5		
8.4	250	156	0.80			14	165	89.71	2.7		
9.7	215	135	0.95			16	148	80.55	3.0		
10	210	127	0.95			19	127	69.23	3.5		
13	169	104	1.20	AR97 ARF97	8P	7.3	325	176.88	0.90	AR47 ARF47	4P
14	146	90	1.35			8.0	300	162.94	1.00		
2.3	1020	289.74	3.0			9.3	255	139.99	1.15		
2.7	900	255.71	3.3			11	225	121.87	1.35		
2.8	850	241.25	3.5	AR87 ARF87	8P	11	210	114.17	1.45		
3.1	780	216.28	4.0			13	185	100.86	1.60		
2.8	870	246.54	1.80			14	172	93.68	1.75		
3.1	760	216.54	2.0			15	156	84.90	1.90		
3.3	720	205.71	2.2	AR77 ARF77	8P	17	140	76.23	2.1	AR37 ARF37	4P
3.7	640	181.77	2.4			19	126	68.54	2.4		
4.1	585	166.49	1.40			20	118	64.21	2.5		
4.7	510	145.67	1.60			23	104	56.73	2.9		
4.9	485	138.39	1.70	AR77 ARF77	6P	25	97	52.69	3.1		
5.6	425	121.42	1.90			27	88	47.75	3.4		
4.5	530	195.24	1.55			9.6	250	134.82	0.80	AR37 ARF37	4P
5.3	450	166.59	1.80			11	225	123.66	0.90		
6.0	395	145.67	2.1	AR77 ARF77	4P	12	193	105.28	1.05		
6.7	360	195.24	2.3			14	167	90.77	1.20		
7.8	305	166.59	2.7			15	155	84.61	1.30		
8.9	270	15.67	3.1			18	136	73.96	1.45		
9.4	255	138.39	3.2	AR67 ARF67	8P	19	127	69.33	1.55		
11	225	121.42	3.7			21	112	61.18	1.80		
4.3	555	158.14	1.10			23	102	55.76	1.95		
4.9	485	137.67	1.25			27	88	48.08	2.3	AR27 ARF27	4P
5.3	455	128.97	1.35	AR67 ARF67	6P	29	82	44.81	2.4		
6.0	400	113.94	1.50			33	72	39.17	2.8		
4.4	540	199.81	1.10			35	67	36.72	3.0		
4.8	500	184.07	1.20	AR67 ARF67	4P	40	60	32.40	3.4		
5.6	430	158.14	1.40			15	156	84.78	0.85		
6.4	375	137.67	1.60			18	136	74.11	0.95		
6.8	350	128.97	1.70			19	128	69.47	1.00		
7.7	310	113.94	1.95	AR67 ARF67	6P	21	113	61.30	1.15		
8.3	285	105.83	2.1			23	103	55.87	1.25		
6.5	365	199.81	1.65			27	89	48.17	1.45		
7.1	340	184.07	1.80			29	83	44.90	1.60		
8.2	290	158.14	2.1	AR67 ARF67	4P	33	72	39.25	1.80		
9.4	255	137.67	2.4			35	68	36.79	1.90		
10	235	128.97	2.5			40	60	32.47	2.2		
11	210	113.94	2.9			45	53	28.78	2.5		
12	194	105.83	3.1	AR57 ARF57	6P	53	45	24.47	2.9		
14	176	95.91	3.4			46	52	28.37	2.5		
15	158	86.11	3.8			50	48	26.09	2.7		
4.7	505	186.89	1.90			58	41	22.32	3.2		
5.1	465	172.17	1.95	AR57 ARF57	6P	67	36	19.35	3.7		
5.9	400	147.92	1.10			72	33	18.08	3.9		
6.8	350	128.77	1.30			83	29	15.63	4.5		
7.3	325	120.63	1.35			98	24	13.28	5.3		
						110	22	11.86	5.9		
						128	19	10.13	6.6		
						138	17	9.41	7.1		
						159	15	8.16	7.7		
						170	14	7.63	8.0		
						197	12	6.59	8.8		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.25KW						0.25KW					
232	10	5.60	9.6	AR27 ARF27	4P	637	3.7	2.04	19	AR51 ARF51	4P
260	9.2	5.00	10			677	3.5	1.92	20		
304	7.8	4.27	11			787	3.0	1.85	23		
325	7.3	4.00	12			0.37KW					
386	6.2	3.37	13			0.19	15800	7307	0.80	AR147 R77 ARF147R77	4P
23	105	57.35	0.80	0.21	14000	6447	0.95				
24	99	53.76	0.85	0.25	12100	5568	1.10				
27	87	47.44	1.00	0.28	10800	4926	1.20				
29	81	44.18	1.05	0.32	9400	4325	1.40				
34	71	38.61	1.20	0.37	8210	3754	1.60				
36	67	36.20	1.30	0.42	7180	3302	1.80				
41	59	31.94	1.45	0.48	6280	2898	2.1				
46	52	28.32	1.65	AR17 ARF17	4P	0.31	9670	4464	0.85	AR137 R77 ARF137R77	4P
54	44	24.07	1.90			0.35	8510	3928	0.95		
52	46	25.23	1.85			0.34	9140	4018	0.90		
56	43	23.15	2.0			0.39	7950	3514	1.00		
66	36	19.71	2.3			0.41	7540	3338	1.05		
77	31	16.99	2.7			0.47	6580	2929	1.20		
82	29	15.84	2.9			0.56	5540	2484	1.45		
94	25	13.84	3.3			0.62	4980	2242	1.60		
100	24	12.98	3.6			0.52	5880	2658	1.35		
114	21	11.45	3.9			0.57	5330	2412	1.50		
128	19	10.15	4.1			0.67	4580	2073	1.75		
151	16	8.63	4.6			0.75	3990	1839	2.0		
172	14	7.55	4.0			0.99	3070	1397	2.8		
185	13	7.04	4.3			1.1	2670	1226	3.0		
211	11	6.15	4.8			1.3	2400	1090	3.3		
226	11	5.76	5.0			1.5	2090	951	3.8		
256	9.3	5.09	5.5	AR17 ARF17	2P	0.67	4610	2067	0.95	AR107 AR77 ARF107AR77	4P
288	8.3	4.51	5.8			0.82	3760	1693	1.15		
339	7.0	3.83	6.4			0.89	3410	1550	1.25		
433	5.5	615	9.8			0.98	3090	1407	1.40		
461	5.2	5.76	10			1.1	2660	1209	1.60		
523	4.6	5.09	11	1.3	2320	1055	1.85				
590	4.0	4.51	12	0.69	4370	1987	1.00				
694	3.4	3.83	13	0.76	3970	1827	1.10				
145	17	6.07	2.6	0.86	3440	1599	1.25				
170	14	5.18	5.4	0.99	3040	1400	1.40				
194	12	4.53	6.7	1.1	2640	1226	1.65				
205	12	4.30	6.8	1.5	2040	939	2.1				
214	11	6.07	3.9	1.7	1770	822	2.4				
251	9.5	5.18	7.9	AR61 ARF61	4P	0.96	3240	1434	0.95	AR97 AR57 ARF97AR57	4P
287	8.3	4.53	9.9			1.1	2710	1207	1.10		
302	7.9	4.30	10			1.3	2430	1084	1.25		
345	6.9	3.77	13			0.99	3100	1396	0.95		
406	5.9	3.20	17			1.1	2710	1228	1.10		
450	5.3	2.89	20			1.3	2410	1069	1.25		
511	4.7	2.54	25			1.5	2110	938	1.40		
542	4.4	2.40	28			1.7	1820	824	1.65		
636	3.8	2.04	35			1.9	1630	737	1.85		
160	15	5.50	2.6			2.2	1390	632	2.2		
174	14	5.07	2.6	AR51 ARF51	6P	3.2	960	431	3.1		
202	12	4.35	5.8			3.6	840	379	3.6		
232	10	3.79	6.7			4.1	745	336	4.0		
236	10	5.50	3.9			1.7	1780	802	0.85		
257	9.3	5.07	3.9	AR51 ARF51	4P	1.8	1670	754	0.95		
299	8.0	4.35	8.5			2.1	1430	649	1.1		
343	7.0	3.79	9.9			1.8	1730	776	0.90		
366	6.5	3.55	11			2.0	1530	685	1.00		
414	5.8	3.14	11			2.3	1310	599	1.20		
446	5.3	2.91	13			2.6	1150	525	1.35		
492	4.8	2.64	14			3.0	1000	456	1.55		
548	4.4	2.37	16			5.2	585	268	2.7		

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.37KW						0.37KW					
5.8	515	236	3.0	AR87 AR57 ARF87AR57	4P	13	270	105.83	2.2	AR67 ARF67	4P
2.6	1230	538	1.25			14	245	95.91	2.4		
2.9	1080	472	1.45			16	220	86.11	2.7		
3.5	910	400	1.70			19	190	74.17	3.2		
3.8	810	361	1.90			20	179	69.75	3.4		
3.2	980	436	0.85	AR77 AR37 ARF77AR37	4P	23	157	61.26	3.8	AR57 ARF57	6P
3.7	840	373	0.95			24	146	56.89	4.1		
4.2	740	327	1.10			7.0	505	128.77	0.90		
4.8	655	289	1.25			7.5	475	120.63	0.95		
5.3	585	260	1.40			8.4	420	106.58	1.10		
6.2	500	224	1.65			9.1	390	98.99	1.15		
7.0	435	197	1.90			7.4	480	186.89	0.95	AR57 ARF57	4P
8.1	380	169	2.2	AR67 AR37 ARF67AR37	4P	8.0	440	172.17	1.00		
9.3	335	149	2.5			9.3	380	147.92	1.20		
4.7	650	294	0.90			11	330	128.77	1.35		
5.3	585	261	1.00			11	310	120.63	1.45		
5.9	525	234	1.15	AR97 ARF97	8P	13	275	106.58	1.65		
6.9	450	200	1.35			14	255	98.99	1.80		
2.7	1330	255.71	2.3			15	230	89.71	1.95		
2.8	1250	241.25	2.4			17	205	80.55	2.2		
3.1	1120	216.28	2.7	AR97 ARF97	6P	20	177	69.23	2.5		
3.7	970	186.30	3.1			21	166	64.85	2.7		
3.1	1140	289.74	2.6			24	147	57.29	3.1		
3.5	1000	255.71	3.0			26	136	53.22	3.3		
3.7	950	241.25	3.2	AR87 ARF87	8P	29	124	48.23	3.6		
4.2	850	216.28	3.5			9.9	360	139.99	0.85	AR47 ARF47	4P
3.1	1130	216.54	1.40			11	310	121.87	0.95		
3.3	1070	205.71	1.45			12	290	114.17	1.05		
3.7	940	181.77	1.65	AR87 ARF87	6P	14	260	100.86	1.15		
3.7	970	246.54	1.60			15	240	93.68	1.25		
4.2	850	216.54	1.80			16	215	84.90	1.40		
4.4	810	205.71	1.90			18	195	76.23	1.55		
4.9	715	181.77	2.2	AR77 ARF77	8P	20	176	68.54	1.70		
5.8	610	155.34	2.5			21	164	64.21	1.80		
6.3	560	142.41	2.8			24	145	56.73	2.1		
4.7	755	145.67	1.10			26	135	52.69	2.2		
4.9	720	138.39	1.15	AR77 ARF77	6P	29	122	47.75	2.5		
5.6	630	121.42	1.30			32	110	42.87	2.7		
5.4	655	166.59	1.25			37	95	36.93	3.2		
6.2	570	145.67	1.45			40	89	34.73	3.4		
6.5	545	138.39	1.50	AR77 ARF77	4P	41	87	33.79	2.8		
7.1	500	195.24	1.65			44	80	31.12	2.8		
8.3	425	166.59	1.90			52	69	26.74	4.4		
9.5	375	145.67	2.2			59	60	13.28	5.0		
10	355	138.39	2.3			63	56	21.81	5.4		
11	310	121.42	2.6			15	230	90.77	0.85	AR37 ARF37	4P
13	265	102.99	3.1			16	215	84.61	0.90		
15	240	92.97	3.5	AR67 ARF67	6P	19	189	73.96	1.05		
5.7	820	158.14	0.95			20	178	69.33	1.15		
6.5	540	137.67	1.10			23	157	61.18	1.30		
7.0	505	128.97	1.20			25	143	55.76	1.40		
7.9	445	113.94	1.35	AR67 ARF67	4P	29	123	48.08	1.60		
6.9	510	199.81	1.15			31	115	44.81	1.75		
7.5	470	184.07	1.25			35	100	39.17	2.0		
8.7	405	158.14	1.50			38	94	36.72	2.1		
10	355	137.67	1.70			43	83	32.40	2.4		
11	330	128.97	1.80			48	74	28.73	2.7		
12	290	113.94	2.1			57	63	24.42	3.2		
						49	73	28.32	2.8		
						53	67	26.03	2.8		
						62	57	22.27	3.5		
						71	49	19.31	4.1		
						76	46	18.05	4.3		
						88	40	15.60	5.0		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole						
0.37KW						0.37KW											
104	34	13.25	5.6	AR37	4P	575	6.1	2.40	20	AR61	4P						
117	30	11.83	6.0	ARF37		675	5.2	2.04	26	ARF61							
23	157	61.30	0.85	AR27 ARF27		4P	207	17	4.35	4.0		AR51 ARF61	6P				
25	143	55.87	0.90		238		15	3.79	4.6								
29	123	48.17	1.05		254		14	3.55	5.0								
31	115	44.90	1.15		251		14	5.50	2.8	AR51 ARF51	4P						
35	101	39.25	1.30														
38	94	36.79	1.40														
43	83	32.47	1.55														
48	74	28.78	1.75														
56	63	24.47	2.1														
49	73	28.37	1.80														
53	67	26.09	1.95														
62	57	22.32	2.3														
71	50	19.35	2.6														
76	46	18.08	2.8														
88	40	15.63	3.2														
104	34	13.28	3.8														
835	4.2	1.65	16														
0.55KW						0.55KW											
36	99	38.61	0.85	AR17 ARF17	4P	0.22	19800	6077	0.90	AR167 AR97 ARF167AR97	4P						
38	93	36.20	0.90			0.25	17600	5407	1.00								
43	82	31.94	1.05			0.29	15100	4650	1.20								
49	73	28.32	1.15			0.33	13300	4129	1.35								
57	62	24.07	1.40			0.28	16600	4926	0.80	AR147 AR77 ARF147AR77	4P						
55	65	25.23	1.30									0.31	14500	4325	0.90		
60	59	23.15	1.45									0.36	12700	3754	1.05		
70	51	19.71	1.70									0.41	11100	3302	1.15		
81	44	16.99	1.95									0.47	9720	2898	1.35		
87	41	15.84	2.1									0.53	8730	2555	1.50		
100	35	13.84	2.4									0.62	7560	2211	1.70		
106	33	12.98	2.6									0.70	6670	1951	1.95		
121	29	11.45	2.8									0.80	5730	1705	2.3		
136	26	10.15	3.0									0.89	5140	1536	2.5		
160	22	8.63	3.3									1.0	4450	1329	2.9		
183	19	7.55	2.9									1.2	3880	1166	3.3		
196	18	7.04	3.1									0.55	8540	2484	0.95	AR137 AR77 ARF137AR77	4P
224	16	6.15	3.4														
239	15	5.76	3.6			0.56	8240	2412	0.95								
271	13	5.09	3.9			0.66	7090	2073	1.15								
306	12	4.51	4.2			0.74	6210	1839	1.30								
360	9.8	3.83	4.6			0.85	5350	1598	1.50								
191	19	13.84	4.6	0.97	4760	1397	1.70										
204	17	12.98	4.9	1.1	4150	1226	1.95										
231	15	11.45	5.3	1.2	3710	1090	2.2										
261	14	10.15	5.7	1.4	3240	951	2.5										
307	12	8.63	6.3	1.6	2780	831	2.9										
351	10	7.55	5.5	0.97	4790	1407	0.90	AR107 AR77 ARF107AR77	4P								
377	9.4	7.04	5.8							1.1	4120	1209	1.05				
431	8.2	6.15	6.6							1.3	3590	1055	1.20				
460	7.7	5.76	6.9							1.5	3140	979	1.35				
521	6.8	5.09	7.5							1.7	2790	815	1.55				
588	6.0	4.51	8.0							1.9	2450	717	1.75				
691	5.1	3.83	8.8							2.2	2140	626	2.0				
174	20	5.18	3.7							0.97	4730	1400	0.90				
199	18	4.53	4.6							1.1	4120	1226	1.05				
209	17	4.30	4.7							1.2	3690	1104	1.15				
239	15	3.77	5.9	1.5	3170	939	1.35										
227	16	6.07	2.8	AR61 ARF61	4P	1.7	2760	822	1.55	AR97 AR57 ARF97AR57	4P						
267	13	5.18	5.6			1.5	3240	938	0.95								
305	12	4.53	7.1			1.6	2810	824	1.05								
321	11	4.30	7.3			1.8	2520	737	1.20								
366	9.7	3.77	9.0			2.2	2160	632	1.40								
431	8.2	3.20	12			2.4	1880	560	1.60								
478	7.4	2.89	14														
543	6.5	2.54	18														

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.55KW						0.55KW					
2.8	1640	484	1.85	AR97 AR57 ARF97AR57	4P	20	270	69.75	2.2	AR67 AR67	4P
3.2	1480	431	2.0			22	235	61.26	2.5		
3.6	1290	379	2.3			24	220	56.89	2.7		
4.0	1150	336	2.6			11	465	120.63	0.95	AR57 AR57	4P
4.6	1010	296	3.0			13	410	106.58	1.10		
5.5	840	249	3.6	AR87 AR57 ARF87AR57	4P	14	380	98.99	1.20		
2.6	1780	525	0.85			15	345	89.71	1.30		
3.0	1550	456	1.00			17	310	80.55	1.45		
3.4	1340	398	1.15			20	265	69.23	1.70		
3.9	1190	352	1.30			21	250	64.85	1.80		
4.4	1030	305	1.50			24	220	57.29	2.0		
2.9	1650	472	0.95			26	205	53.22	2.2		
3.4	1400	400	1.10			28	186	48.23	2.4		
3.8	1260	361	1.25	AR77 AR37 ARF77AR37	4P	31	167	43.30	2.7		
4.9	970	276	0.85			36	144	37.30	3.1		
5.8	830	236	1.00			39	136	35.07	3.3		
6.2	775	221	1.05			52	102	26.31	4.4		
7.3	650	186	1.25	AR97 ARF97	8P	54	97	24.99	4.7	AR47 AR47	4P
2.7	1980	255.71	1.50			62	85	21.93	5.3		
2.8	1860	241.25	1.60			73	72	18.60	6.3		
3.1	1670	216.28	1.80	AR97 ARF97	6P	15	360	93.68	0.85		
3.1	1690	289.74	1.75			16	330	84.90	0.90		
3.5	1490	255.71	2.0			18	295	76.23	1.00		
3.7	1410	241.25	2.1			20	265	68.54	1.15		
4.2	1260	216.28	2.4	AR97 ARF97	4P	21	250	64.21	1.20		
4.7	1120	289.74	2.7			24	220	56.73	1.35		
5.3	990	255.71	3.0			26	205	52.69	1.45		
5.6	930	241.25	3.2			28	184	47.75	1.65		
6.3	840	216.28	3.6	AR87 AR87	6P	32	166	42.87	1.80		
3.7	1440	246.54	1.10			37	143	36.93	2.1		
4.2	1260	216.54	1.25			39	134	34.73	2.2		
4.4	1200	205.71	1.30			46	115	29.88	2.6		
4.9	1060	181.77	1.45	AR87 AR87	4P	51	103	26.74	2.9		
5.8	910	155.34	1.70			58	90	23.28	3.3		
5.5	950	246.54	1.65			62	84	21.81	3.6		
6.3	840	216.54	1.85			22	235	61.18	0.85	AR37 ARF37	4P
6.6	795	205.71	1.95			24	215	55.76	0.95		
7.5	700	181.77	2.2			28	186	48.08	1.10		
8.8	600	155.34	2.6			30	173	44.81	1.15		
9.6	550	142.41	2.8			35	151	39.17	1.30		
11	485	124.97	3.2			37	142	36.72	1.40		
11	455	118.43	3.4			42	125	32.40	1.60		
13	400	103.65	3.9	AR77 AR77	4P	47	111	28.73	1.80		
8.2	645	166.59	1.25			56	94	24.42	2.1		
9.3	565	145.67	1.45			61	86	22.27	2.3		
9.8	535	138.39	1.55			70	75	19.31	2.7		
11	470	121.42	1.75			75	70	18.05	2.9		
13	400	102.99	2.1			87	60	15.60	3.3		
15	360	92.97	2.3			103	51	13.25	3.7		
17	315	81.80	2.6			115	46	11.83	4.0		
18	300	77.24	2.8	AR67 AR67	4P	35	152	39.25	0.85	AR27 ARF27	4P
21	255	65.77	3.2			37	142	36.79	0.90		
8.6	610	158.14	1.00			42	125	32.47	1.05		
9.9	530	137.67	1.15			47	111	28.78	1.15		
11	500	128.97	1.20			56	95	24.47	1.40		
12	440	113.94	1.35			61	86	22.32	1.50		
13	410	105.83	1.45			70	75	19.35	1.75		
14	370	95.91	1.60			75	70	18.08	1.85		
16	335	86.11	1.80	AR97 AR57 ARF97AR57	4P	87	60	15.63	2.2		
18	285	74.17	2.1			102	51	13.28	2.5		
						115	46	11.86	2.8		
						134	39	10.13	3.1		
						145	36	9.41	3.4		
						167	32	8.16	3.7		
						178	29	7.63	3.8		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole		
0.55KW						0.55KW							
206	26	6.59	4.2	AR27 ARF27	4P	823	6.4	1.65	11	AR51 ARF51	4P		
243	22	5.60	4.6			921	5.7	1.48	12				
272	19	5.00	4.9			1045	5.0	1.30	13				
318	17	4.27	5.3			0.75KW							
340	15	4.00	5.5			0.30	20700	4650	0.85	AR167 AR97 ARF167AR97	4P		
404	13	3.37	6.1			0.33	18300	4129	1.00				
50	105	53.76	0.80	0.52	12000	2657	1.50						
57	92	47.44	0.90	0.59	10400	2333	1.75						
61	86	44.18	1.00	0.66	9230	2085	1.95						
70	75	38.61	1.15	0.96	6510	1438	2.8						
69	76	19.71	1.10	AR17 ARF17	4P	0.42	15100	3302	0.85	AR147 AR77 ARF147AR77	4P		
80	66	16.99	1.30			0.48	13200	2898	1.00				
86	61	15.84	1.40			0.54	11900	2555	1.10				
98	54	13.84	1.60			0.62	10300	2211	1.25				
105	50	12.98	1.70			0.71	9070	1951	1.45				
119	44	11.45	1.85			0.81	7830	1705	1.65				
134	39	10.15	1.95			0.90	7030	1536	1.85				
158	33	8.63	2.2			1.0	6080	1329	2.1	AR137 AR77 ARF137AR77	4P		
180	29	7.55	1.90			1.2	5310	1166	2.5				
193	27	7.04	2.0			0.74	8640	1863	0.95				
221	24	6.15	2.3			0.87	7330	1586	1.10				
236	22	5.76	2.4			0.99	6500	1391	1.25				
267	20	5.09	2.6			1.1	5850	1256	1.35				
302	17	4.51	2.8			0.67	9640	2073	0.85				
355	15	3.83	3.0			0.75	8480	1839	0.95				
313	17	8.63	4.3	AR17 ARF17	2P	0.86	7310	1598	1.10	AR137 AR77 ARF137AR77	4P		
358	15	7.55	3.8			0.99	6480	1397	1.25				
384	14	7.04	4.0			1.1	5660	1226	1.40				
439	12	6.15	4.5			1.3	5050	1090	1.60				
468	11	5.76	4.7			1.5	4410	951	1.80				
531	9.9	5.09	5.2			1.7	3810	831	2.1				
599	8.8	4.51	5.4			1.9	3320	730	2.4				
704	7.5	3.83	6.0										
174	30	5.18	2.5	AR61 ARF61	6P	1.3	4890	1055	0.9	AR137 AR77 ARF137AR77	4P		
199	26	4.53	3.1			1.5	4270	919	1.00				
209	25	4.30	3.2			1.7	3800	815	1.15				
239	22	3.77	4.0			1.2	5050	1104	0.85				
263	20	5.18	3.8			1.5	4330	939	1.00				
300	18	4.53	4.7	1.7	3770	822	1.15	AR97 AR57 ARF97AR57	4P				
316	17	4.30	4.8	3.7	1690	369	2.5						
360	15	3.77	6.0	4.3	1470	323	2.9						
425	12	3.20	8.1	2.2	2940	632	1.00						
471	11	2.89	9.5	2.5	2570	560	1.15						
535	9.8	2.54	12	2.8	2230	484	1.35						
567	9.3	2.40	13	3.2	2010	431	1.50						
666	7.9	2.04	17	3.6	1760	379	1.70						
732	7.2	1.86	18	4.1	1570	336	1.90	AR87 AR57 ARF87AR57	4P				
845	6.2	1.61	18	4.7	1370	296	2.2						
207	25	4.35	2.7	AR51 ARF51	6P	5.5	1150			249	2.6		
238	22	3.79	3.1			3.5	1830			398	0.85		
254	21	3.55	3.3			3.9	1630			352	0.95		
287	18	3.14	3.5			4.5	1400			305	1.10		
309	17	2.91	3.9			5.2	1240	268	1.25				
312	17	4.35	4.1	AR51 ARF51	4P	5.8	1090	236	1.40	AR107 ARF107	8P		
359	15	3.79	4.7			3.8	1710	361	0.90				
383	14	3.55	5.0			4.6	1410	300	1.10				
434	12	3.14	5.4			5.4	1200	256	1.30				
467	11	2.91	6.0			2.8	2610	251.15	1.65				
515	10	2.64	6.8			3.0	2390	229.95	1.80				
574	9.2	2.37	7.5			3.4	2110	203.16	2.0				
666	7.9	2.04	8.7										
708	7.4	1.92	9.3										

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
0.75KW						0.75KW					
3.2	2240	216.28	1.35	AR97 ARF97	8P	39	182	35.07	2.5	AR57 AR57	4P
3.7	1930	186.30	1.55			46	157	30.18	2.9		
4.1	1760	170.02	1.70			51	140	26.97	3.2		
3.5	2030	255.71	1.45	AR97 ARF97	6P	52	137	26.31	3.3		
3.7	1920	241.25	1.55			55	130	24.99	3.5		
4.2	1720	216.28	1.75			63	114	21.93	4.0		
4.8	1500	289.74	2.0	AR97 ARF97	4P	74	97	18.60	4.7	AR47 AR47	4P
5.4	1330	255.71	2.3			20	355	68.54	0.85		
5.7	1250	241.25	2.4			21	335	64.21	0.90		
6.4	1120	216.28	2.7			24	295	56.73	1.00		
7.4	970	186.30	3.1			26	275	52.69	1.10		
8.1	880	170.02	3.4			29	250	47.75	1.20		
4.2	1720	216.54	0.90	AR97 ARF97	6P	32	225	42.87	1.35		
4.4	1640	205.71	0.95			37	192	36.93	1.55		
4.9	1450	181.77	1.05			40	180	34.73	1.65		
5.8	1240	155.34	1.25			46	155	29.88	1.95		
6.3	1130	142.41	1.35			52	139	26.70	2.2		
5.6	1280	246.54	1.20	AR87 ARF87	4P	58	122	23.59	2.5		
6.4	1120	216.54	1.40			52	139	26.74	2.2		
6.7	1070	205.71	1.45			59	121	23.28	2.5		
7.6	940	181.77	1.65			63	113	21.81	2.7		
8.9	810	155.34	1.90			72	100	19.27	3.0		
9.7	740	142.41	2.1			77	93	17.89	3.1		
11	650	124.97	2.4			85	84	16.22	3.3		
12	615	118.43	2.5			29	250	48.08	0.80		
13	540	103.65	2.9	AR77 ARF77	4P	31	235	44.81	0.85		
15	485	93.38	3.2			35	205	39.17	1.00		
8.3	860	166.59	0.95			38	191	36.72	1.05		
9.5	755	145.67	1.10			43	168	32.40	1.20		
10	720	138.39	1.15			48	149	28.73	1.35		
11	630	121.42	1.30			57	127	24.42	1.60		
13	535	102.99	1.55			62	116	22.27	1.75		
15	485	92.97	1.70			71	100	19.31	2.0		
17	425	81.80	1.95			76	94	18.05	2.1		
18	400	77.24	2.0			88	81	15.60	2.5		
21	340	65.77	2.4			104	69	13.25	2.8		
24	300	57.68	2.7			117	61	11.83	3.0		
27	270	52.07	3.0	AR67 ARF67	4P	137	53	10.11	3.2		
30	240	45.81	3.5			146	49	9.47	3.4		
32	225	43.26	3.7			48	149	28.78	0.85		
11	670	128.97	0.90			56	127	24.47	1.00		
12	590	113.94	1.00			62	116	22.32	1.10		
13	550	105.83	1.10			71	100	19.35	1.30		
14	500	95.91	1.20			76	94	18.08	1.40		
16	445	86.11	1.35			88	81	15.63	1.60		
19	385	74.17	1.55	AR57 ARF57	4P	104	69	13.28	1.90		
20	360	69.75	1.65			116	62	11.86	2.1		
23	320	61.26	1.90			136	53	10.13	2.3		
24	295	56.89	2.0			147	49	9.41	2.5		
27	270	51.56	2.2			169	42	8.16	2.7		
30	240	46.29	2.5			181	40	7.83	2.8		
13	555	106.58	0.80			209	34	6.59	3.1		
14	515	98.99	0.90			246	29	5.60	3.4		
15	465	89.71	0.95	AR57 ARF57	4P	276	26	5.00	3.7		
17	420	80.55	1.10			70	102	19.71	0.85	AR17 ARF17	4P
20	360	69.23	1.25			81	88	16.99	0.95		
21	335	64.85	1.35			87	82	15.84	1.05		
24	295	57.29	1.50			100	72	13.84	1.20		
26	275	53.22	1.65			106	67	12.98	1.25		
29	250	48.23	1.80			121	59	11.45	1.35		
32	225	43.30	2.0			136	53	10.15	1.45		
37	194	37.30	2.3			160	45	8.63	1.60		
						183	39	7.55	1.45		
						196	37	7.04	1.50		
						224	32	6.15	1.70		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (f _s)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (f _s)	Type	Motor pole
0.75KW						1.1KW					
239	30	5.76	1.75	AR17 ARF17	4P	1.4	6870	1029	1.90	AR147 R77 ARF147R77	4P
271	26	5.09	1.95			1.6	5950	889	2.2		
306	23	4.51	2.0			1.8	5240	784	2.5		
360	20	3.83	2.3			2.0	4630	695	2.8		
236	30	11.45	2.7	AR17 ARF17	2P	1.0	9480	1391	0.85	AR137 R77 ARF137R77	4P
266	27	10.15	2.9			1.1	8550	1256	0.95		
313	23	8.63	3.1			1.3	7500	1105	1.05		
358	20	7.55	2.8			1.3	7080	1043	1.15		
384	19	7.04	2.9			1.6	6010	888	1.35		
439	16	6.15	3.3			1.0	9470	1397	0.85		
468	15	5.76	3.5			1.1	8290	1226	0.95		
531	14	5.09	3.8			1.3	7390	1090	1.10		
599	12	4.51	4.0	AR61 ARF61	6P	1.5	6450	951	1.25	AR107 R77 ARF107R77	4P
704	10	3.83	4.4			1.7	5590	831	1.45		
199	36	4.53	2.3			1.9	4890	730	1.65		
209	34	4.30	2.3			2.2	4190	629	1.90		
239	30	3.77	2.9			2.5	3770	560	2.1		
281	26	3.20	3.9			2.8	3270	490	2.5		
267	27	5.18	2.8			2.0	4870	717	0.90		
305	24	4.53	3.5			2.3	4100	614	1.05		
321	22	4.30	3.6	AR61 ARF61	4P	2.6	3630	544	1.20		
366	20	3.77	4.4			2.8	3280	492	1.30		
431	17	3.20	6.0			3.3	2780	417	1.55		
478	15	2.89	7.1			3.8	2480	369	1.75		
543	13	2.54	8.9			4.3	2170	323	2.0		
575	13	2.40	9.8			4.9	1910	285	2.2		
675	11	2.04	13			5.5	1690	253	2.5		
743	9.6	1.86	13			3.2	2930	431	1.00		
858	8.3	1.61	14	3.7	2580	379	1.15				
238	30	3.79	2.3	AR51 ARF51	6P	4.2	2290	336	1.30		
254	28	3.55	2.4			4.7	2010	296	1.50		
287	25	3.14	2.6			5.6	1680	249	1.80		
309	23	2.91	2.9			6.0	1570	234	1.90		
341	21	2.64	3.3			6.7	1400	209	2.1		
317	23	4.35	3.0			5.2	1810	268	0.85		
364	20	3.79	3.5			5.9	1600	236	0.95		
389	18	3.55	3.8			6.7	1400	209	1.10		
440	16	3.14	4.0	AR51 ARF51	4P	5.5	1760	256	0.90		
474	15	2.91	4.4			6.0	1590	232	0.95		
523	14	2.064	5.0			7.2	1350	195	1.15		
582	12	2.37	5.6			2.7	3880	251.15	1.10		
676	11	2.04	6.5			3.0	3550	229.95	1.20		
719	10	1.92	6.9			3.3	3140	203.16	1.35		
835	8.6	1.65	8.0			4.0	2660	172.34	1.60		
935	7.7	1.48	8.8			3.6	2920	255.71	1.05		
1060	6.8	1.30	9.3	3.8	2750	241.25	1.10				
1.1KW						4.2	2470	216.28	1.20	AR97 ARF97	6P
0.53	17700	2657	1.00	4.9	2130	186.30	1.40	AR97 ARF97	4P		
0.60	15400	2333	1.15	5.5	1920	255.71	1.55				
0.67	13700	2082	1.30	5.8	1810	241.25	1.65				
0.75	12300	1877	1.45	6.5	1620	216.28	1.85				
0.84	10900	1670	1.65	7.5	1400	186.30	2.2				
0.97	9600	1438	1.90	8.2	1280	170.02	2.3				
1.1	8540	1279	2.1	9.3	1130	150.78	2.7				
1.2	7420	1123	2.4	11	950	126.75	3.2				
0.63	15000	2211	0.85	AR147 R77 ARF147R77	4P	12	870	116.48	3.4		
0.72	13300	1951	1.00								
0.82	11500	1705	1.15								
0.91	10300	1536	1.25								
1.0	8940	1329	1.45								
1.2	7810	1166	1.65								

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
1.1KW						1.1KW					
6.5	1620	216.54	0.95	AR87 ARF87	4P	52	200	26.70	1.50	AR47 ARF47	4P
6.8	1540	205.71	1.00			59	177	23.59	1.70		
7.7	1360	181.77	1.15			60	175	23.28	1.70		
9.0	1170	155.34	1.35			64	164	21.81	1.85		
9.8	1070	142.41	1.45			73	145	19.27	2.0		
11	940	124.97	1.65			78	134	17.89	2.2		
12	890	118.43	1.75			86	122	16.22	2.3		
14	450	103.65	2.0			96	109	14.56	2.4		
15	700	93.38	2.2			112	94	12.54	2.7		
17	615	81.92	2.5			119	89	11.79	2.8		
19	545	72.57	2.8	AR77 ARF77	4P	138	76	10.15	3.0	AR37 ARF37	4P
22	480	63.68	3.2			154	68	9.07	3.2		
23	455	60.35	3.4			43	245	32.40	0.80		
27	395	52.82	3.9			49	215	28.73	0.95		
12	910	121.42	0.90			57	183	24.42	1.10		
14	775	102.99	1.05			73	145	19.31	1.40		
15	700	92.97	1.20			78	135	18.05	1.50		
17	615	81.80	1.35			90	117	15.60	1.70		
18	580	77.24	1.40			106	99	13.25	1.90		
21	495	65.77	1.65			118	89	11.83	2.1		
24	435	57.68	1.90	AR67 ARF67	4P	139	76	10.11	2.2	AR27 ARF27	4P
27	390	52.07	2.1			148	71	9.47	2.3		
31	345	45.81	2.4			176	60	7.97	2.6		
32	325	43.26	2.5			210	50	6.67	2.9		
38	275	36.83	3.0			247	43	5.67	3.3		
42	250	33.47	3.3			277	38	5.06	3.5		
16	645	86.11	0.95			72	145	19.35	0.90	AR27 ARF27	4P
19	555	74.17	1.10			77	136	18.08	0.95		
20	525	69.75	1.15			90	117	15.63	1.10		
23	460	61.26	1.30			105	100	13.28	1.30		
25	425	56.89	1.40			118	89	11.86	1.45		
27	385	51.89	1.55			138	76	10.13	1.61		
30	345	46.29	1.75			172	61	8.16	1.90		
35	300	39.88	1.95			184	57	7.63	1.95		
37	280	37.50	2.0			212	50	6.59	2.1		
43	240	32.27	2.2	AR57 ARF57	4P	250	42	5.60	2.4	AR27 ARF27	2P
49	215	28.83	2.4			280	38	5.00	2.5		
50	210	28.13	2.6			328	32	4.27	2.7		
52	200	26.72	2.7			350	30	4.00	2.8		
60	176	23.44	3.2			415	25	3.37	3.1		
70	149	19.89	4.0			203	52	13.28	2.5		
20	520	69.23	0.85			228	46	11.86	2.8		
22	485	64.85	0.90			267	39	10.13	3.1		
24	430	57.29	1.05			287	37	9.41	3.3		
26	400	53.22	1.15			331	32	8.16	3.7		
29	360	48.23	1.25	AR47 ARF47	4P	354	30	7.63	3.8	AR17 ARF17	2P
32	325	43.30	1.40			410	26	6.59	4.1		
38	280	37.30	1.60			482	22	5.60	4.5		
40	265	35.07	1.70			540	20	5.00	4.9		
46	225	30.18	2.0			632	17	4.27	5.2		
52	200	26.97	2.2			675	16	4.00	5.4		
53	197	26.31	2.3			801	13	3.37	6.0		
56	188	24.99	2.4			137	77	19.71	1.10		
64	165	21.93	2.7			159	66	16.99	1.30		
75	140	18.60	3.2			170	62	15.84	1.40		
83	126	16.79	3.6	AR47 ARF47	4P	195	54	13.84	1.60		
29	360	47.75	0.85			208	51	12.98	1.70		
33	320	42.87	0.95			236	45	11.45	1.80		
38	275	36.93	1.10			266	40	10.15	1.95		
40	260	34.73	1.15			313	34	8.63	2.1		
47	225	29.88	1.35								



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
1.1KW						1.5KW					
358	29	7.55	1.90	AR17 ARF17	2P	1.4	9650	1043	0.85	AR137 AR77 ARF137AR77	4P
384	27	7.04	2.0			1.6	8200	888	1.00		
439	24	6.15	2.3			2.0	6440	699	1.25		
468	22	5.76	2.4			2.3	5590	609	1.45		
531	20	5.09	2.6			1.3	10100	1090	0.80		
599	18	4.51	2.7			1.5	8790	951	0.90		
704	15	3.83	3.0			1.7	7640	831	1.05		
249	42	5.63	2.6	AR71 ARF71	4P	1.9	6680	730	1.20		
262	40	5.35	2.6			2.2	5740	629	1.40		
296	36	4.73	3.5			2.5	5150	560	1.55		
203	52	4.53	1.60	AR61 ARF61	6P	2.9	4470	490	1.80		
214	49	4.30	1.65			3.3	3910	428	2.0		
244	43	3.77	2.0			3.7	3510	381	2.3		
244	43	3.77	2.0	AR61 ARF61	4P	4.4	2980	323	2.7		
309	34	4.53	2.4			2.7	4860	528	0.90		
326	32	4.30	2.5			2.6	4970	544	0.85		
371	28	3.77	3.1			2.9	4490	492	0.95		
438	24	3.20	4.2			3.4	3810	417	1.15		
485	22	2.89	4.9			3.8	3390	369	1.25		
551	19	2.54	6.2			4.4	2960	323	1.45		
583	18	2.40	6.8			3.0	4410	469	1.00		
685	15	2.04	8.8			4.2	3120	336	0.95		
754	14	1.86	9.1			4.8	2740	296	1.10		
870	12	1.61	9.4			5.7	2300	249	1.30		
1000	11	1.40	9.9	6.0	2150	234	1.40				
243	43	3.79	1.60	AR51 ARF51	6P	6.8	1920	209	1.55		
259	41	3.55	1.70			3.0	4710	229.95	0.90		
293	36	3.14	1.80			3.5	4160	203.15	1.05		
316	33	2.91	2.0			4.1	3530	172.34	1.20		
348	30	2.64	2.3			4.4	3250	158.68	1.30		
369	28	3.79	2.4	AR51 ARF51	4P	4.4	3250	158.68	1.30		
394	27	3.55	2.6			3.7	3910	251.15	1.10		
446	24	3.14	2.8			4.0	3580	229.95	1.20		
481	22	2.91	3.1			4.5	3160	203.16	1.35		
530	20	2.64	3.5			5.3	2680	172.34	1.60		
591	18	2.37	3.9			5.8	2470	158.68	1.75		
686	15	2.04	4.5			6.5	2210	141.83	1.95		
729	14	1.92	4.8			5.5	2600	255.71	1.15		
847	12	1.65	5.6			5.8	2450	241.25	1.20		
948	11	1.48	6.1			6.5	2200	216.28	1.35		
1075	9.8	1.30	6.4			7.6	1890	186.30	1.60		
1.5KW						8.3	1730	170.02	1.75	AR97 ARF97	4P
0.60	21200	2333	0.85	9.4	1530	150.78	1.95				
0.68	18800	2085	0.95	11	1290	126.75	2.3				
0.75	16900	1877	1.05	12	1180	116.48	2.5				
0.84	15000	1670	1.20	14	1050	403.44	2.8				
0.98	13100	1438	1.35	15	940	92.48	3.2				
1.1	11700	1279	1.55	7.8	1850	181.77	0.85				
1.3	10200	1123	1.75	9.1	1580	155.34	1.00				
1.4	9060	999	2.0	9.9	1450	142.41	1.05				
3.3	3870	426	3.4	AR147 AR87 ARF147AR87	4P	11	1270	124.97	1.20		
3.8	3340	368	3.9			12	1200	118.43	1.30		
0.83	15700	1705	0.85	AR147 AR77 ARF147AR77	4P	14	1050	103.65	1.45		
0.92	14100	1536	0.90			15	950	93.38	1.65		
1.1	12200	1329	1.05			17	830	81.92	1.85		
1.2	10700	1166	1.20			19	735	72.57	2.1		
1.4	9410	1029	1.40			22	645	63.68	2.4		
1.6	8140	889	1.60			23	615	60.35	2.5		
1.8	7170	784	1.80			27	535	52.82	2.9		
2.0	6340	695	2.0			30	485	47.58	3.2		
2.3	5700	616	2.3			34	425	41.74	3.7		
2.5	5130	558	2.5			38	375	36.84	4.1		



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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
1.5KW						1.5KW					
15	940	92.97	0.85	AR77 ARF77	4P	73	196	19.31	1.00	AR37 ARF37	4P
17	830	81.80	1.00			78	183	18.05	1.10		
18	785	77.24	1.05			90	159	15.60	1.25		
21	670	65.77	1.25			106	135	13.25	1.40		
24	585	57.68	1.40			119	120	11.83	1.50		
27	530	52.07	1.55			140	103	10.11	1.65		
31	465	45.81	1.75			149	96	9.47	1.75		
33	440	43.26	1.85			177	81	7.97	1.95		
38	375	36.83	2.2			211	68	6.67	2.1		
42	340	33.47	2.4			249	58	5.67	2.5		
49	295	29.00	2.8			279	51	5.06	2.6		
56	255	25.23	3.0			326	44	4.32	2.9		
60	240	23.37	3.5	AR67 ARF67	4P	348	41	4.05	3.0	AR37 ARF37	2P
66	220	21.43	3.8			414	35	3.41	3.2		
75	191	18.80	4.1			204	70	13.25	2.7		
23	620	61.26	0.95			228	63	11.83	2.9		
25	580	56.89	1.05			267	54	10.11	3.2		
27	525	51.56	1.15			285	50	9.47	3.3		
30	470	46.29	1.30			339	42	7.97	3.7		
35	405	39.88	1.45			90	159	15.63	0.80	AR27 ARF27	4P
38	380	37.50	1.50			106	135	13.28	0.95		
44	330	32.37	1.65			119	121	11.86	1.05		
49	295	28.83	1.80			139	103	10.13	1.20		
50	285	28.13	1.90			173	83	8.16	1.40		
53	270	26.72	2.0			185	78	7.63	1.45		
60	240	23.44	2.3			214	67	6.59	1.60		
71	200	19.89	3.0			252	57	5.60	1.75		
79	182	17.95	3.2			282	51	5.00	1.85		
27	540	53.22	0.85	AR57 ARF57	4P	330	43	4.27	2.0		
29	490	48.23	0.90			353	41	4.00	2.1	AR27 ARF27	2P
33	440	43.30	1.00			418	34	3.37	2.3		
38	380	37.30	1.20			228	63	11.86	2.0		
40	355	35.07	1.25			267	54	10.13	2.3		
47	305	30.18	1.45			331	43	8.16	2.7		
52	275	26.97	1.65			354	41	7.63	2.8		
54	265	26.31	1.70			410	35	6.59	3.0		
56	255	24.99	1.75			482	30	5.60	3.3		
64	225	21.93	2.0			540	27	5.00	3.6		
76	189	18.60	2.4			632	23	4.27	3.8		
84	171	16.79	2.6			675	21	4.00	4.0		
95	150	14.77	2.9	AR47 ARF47	4P	801	18	3.37	4.4	AR71 ARF71	4P
101	142	13.95	3.0			250	57	5.63	1.90		
119	121	11.88	3.4			264	54	5.35	1.90		
38	375	36.93	0.80			298	48	4.73	2.6		
41	355	34.73	0.85			349	41	4.04	3.5		
47	305	29.88	1.00			381	38	3.70	4.1		
53	270	26.77	1.10			434	33	3.25	5.5		
60	240	23.59	1.25			458	31	3.08	6.2		
61	235	23.28	1.25			523	27	2.70	7.8		
65	220	21.81	1.35			581	25	2.43	8.7		
73	196	19.27	1.50			312	46	4.53	1.80	AR61 ARF61	4P
79	182	17.89	1.60			328	44	4.30	1.85		
87	165	16.22	1.65			374	38	3.77	2.3		
97	148	14.56	1.80			441	33	3.20	3.1		
112	127	12.54	1.95			488	29	2.89	3.6		
120	120	11.79	2.0			555	26	2.54	4.6		
139	103	10.15	2.2			588	24	2.40	5.0		
155	92	9.07	2.4			690	21	2.04	6.4		
176	81	8.01	2.5			759	19	1.86	6.7		
182	79	7.76	2.1			876	16	1.61	7.0		
203	71	6.96	2.2			1005	14	1.40	7.3		
235	61	6.00	2.6								
250	57	5.64	2.7								
291	49	4.85	3.0								
325	44	4.34	3.3								
368	39	3.83	3.7								



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole		
1.5KW						2.2KW							
372	39	3.79	1.80	AR51 ARF51	4P	4.6	4540	203.16	0.95	AR107 ARF107	6P		
397	36	3.55	1.90			5.4	3850	172.34	1.10				
450	32	3.14	2.0			5.9	3550	158.68	1.20				
484	30	2.91	2.3			6.6	3170	141.83	0.35				
534	27	2.64	2.6			5.6	3740	251.15	1.15	AR107 ARF107	4P		
595	24	2.37	2.9			6.1	3430	229.95	1.25				
691	21	2.04	3.3			6.9	3030	203.16	1.40				
734	20	1.92	3.5			8.2	2570	172.34	1.65				
853	17	1.65	4.1			8.9	2360	158.68	1.80				
955	15	1.48	4.5			9.9	2110	141.83	2.0				
1080	13	1.30	4.7	11	1900	127.68	2.3						
2.2KW						12	1720	115.63	2.5			AR97 ARF97	4P
0.84	22400	1670	0.80	14	1530	102.53	2.8						
0.98	19500	1438	0.95	15	1380	92.70	3.1						
1.1	17300	1279	1.05	6.5	3220	216.28	0.95	AR87 ARF87	4P				
1.3	15100	1123	1.20	7.6	2780	186.30	1.10						
1.4	13500	999	1.35	8.3	2530	170.02	1.20						
1.6	11600	861	1.55	9.4	2250	150.78	1.35						
1.9	10300	760	1.75	11	1890	126.75	1.60						
2.2	8710	656	2.1	12	1740	116.48	1.75						
2.6	7130	533	1.80	14	1540	103.44	1.95						
3.0	6150	462	2.1	15	1380	92.48	2.2						
3.3	5740	426	2.3	17	1240	83.15	2.4						
3.8	4960	368	2.6	20	1080	72.17	2.8						
4.3	4390	326	3.0	22	970	65.21	3.1						
1.2	15800	1166	0.80	24	890	59.92	3.4			AR77 ARF77	4P		
1.4	13900	1029	0.95	27	795	53.21	3.8						
1.6	12000	889	1.10	30	710	47.58	4.2						
1.8	10600	784	1.20	11	1860	124.97	0.85						
2.0	9400	695	1.40	12	1760	118.43	0.90						
2.3	8420	619	1.55	14	1540	103.65	1.00						
2.5	7580	558	1.70	15	1390	93.38	1.10						
2.9	6640	489	1.95	17	1220	81.92	1.25						
2.0	9510	699	0.85	19	1080	72.57	1.45						
2.3	8270	609	0.95	22	950	63.68	1.65						
1.9	9890	730	0.80	23	900	60.35	1.70						
2.2	8500	629	0.95	27	785	52.82	1.95						
2.5	7620	560	1.05	30	710	47.58	2.2						
2.9	6630	490	1.20	34	620	41.74	2.5						
3.3	5790	428	1.40	38	550	36.84	2.8						
3.7	5190	381	1.55	43	485	32.66	3.2						
4.4	4400	323	1.80	41	515	34.40	2.9						
4.8	3960	291	2.0	45	470	31.40	3.3						
5.5	3460	255	2.3	51	415	27.84	3.7						
6.3	3030	223	2.6	60	350	23.40	4.4						
3.8	5010	369	0.85	AR97 AR57 ARF97AR57	4P	66	320	21.51	4.7				
4.4	4390	323	1.00			21	980	65.77	0.85				
4.9	3860	285	1.10			24	860	57.68	0.95				
5.6	3420	253	1.25			27	775	52.07	1.05				
6.6	2900	214	1.50			31	685	45.81	1.20				
4.3	4480	325	0.95			33	645	43.26	1.25				
6.0	3170	234	0.95			38	550	36.83	1.50				
6.8	2840	209	1.05			42	500	33.47	1.65				
3.1	6680	222.60	1.20			49	430	29.00	1.90				
3.7	5660	188.45	1.40			56	375	25.23	2.1				
4.0	5230	174.40	1.55	60	350	23.37	2.3						
4.5	4690	156.31	1.70	66	320	21.43	2.6						
5.0	4240	141.12	1.90	75	280	18.80	2.8						
5.5	3850	128.18	2.1	79	265	17.82	2.9						
6.2	3410	113.72	2.3	90	230	15.60	3.2						
6.8	3100	103.20	2.6	100	210	14.05	3.4						
						35	595	39.88	1.00	AR67 ARF67	4P		
						38	560	37.50	1.00				
						44	480	32.27	1.10				



AR

Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole
2.2KW						2.2KW					
49	430	28.83	1.20	AR67 ARF67	4P	140	151	10.11	1.15	AR37 ARF37	4P
60	350	23.44	1.60			149	141	9.47	1.20		
71	295	19.89	2.0			177	119	7.97	1.30		
79	270	17.95	2.2			211	99	6.67	1.45		
89	235	15.79	2.4			249	84	5.67	1.70		
95	220	14.91	2.5			279	75	5.06	1.80		
111	189	12.70	2.8			326	64	4.32	1.95		
122	172	11.54	2.9			348	60	4.05	2.0		
141	149	10.00	3.2			414	51	3.41	2.2		
162	130	8.70	3.4								
181	116	7.79	3.3								
38	555	37.30	0.80	AR57 ARF57	4P	141	149	19.31	1.35	AR37 ARF37	2P
40	525	35.07	0.85			151	139	18.05	1.45		
47	450	30.18	1.00			175	120	15.60	1.65		
52	400	26.97	1.10			206	102	13.25	1.85		
64	325	21.93	1.40			231	91	11.83	2.0		
76	275	18.60	1.60			270	78	10.11	2.2		
84	250	16.79	1.80			288	73	9.47	2.3		
95	220	14.77	2.0			342	61	7.97	2.5		
101	210	13.95	2.1			409	51	6.67	2.8		
119	177	11.88	2.3			482	44	5.67	3.3		
131	161	10.79	2.4	AR57 ARF57	2P	540	39	5.06	3.5	AR27 ARF27	4P
151	139	9.35	2.7			632	33	4.32	3.8		
156	135	9.06	2.8			675	31	4.05	3.9		
177	119	7.97	3.0			801	26	3.41	4.3		
104	205	26.31	2.2			139	151	10.13	0.80		
109	192	24.99	2.3			214	98	6.59	1.10		
124	169	21.93	2.7			252	83	5.60	1.20		
147	143	18.60	3.1			282	75	5.00	1.30		
163	129	16.79	3.5			330	64	4.27	1.35		
185	114	14.77	3.8			353	60	4.00	1.45		
196	107	13.95	4.0			418	50	3.37	1.55		
73	285	19.27	1.05	AR47 ARF47	4P	206	102	13.28	1.25	AR27 ARF27	2P
87	240	16.22	1.15			230	91	11.86	1.40		
97	215	14.56	1.20			270	78	10.13	1.55		
112	187	12.54	1.35			335	63	8.16	1.85		
120	176	11.79	1.40			358	59	7.63	1.90		
139	151	10.15	1.50			414	51	6.59	2.1		
155	135	9.07	1.65			488	43	5.60	2.3		
176	119	8.01	1.70			546	39	5.00	2.5		
182	116	7.76	1.40			639	33	4.27	2.6		
203	104	6.96	1.55			683	31	4.00	2.8		
235	89	6.00	1.75	AR47 ARF47	2P	810	26	3.37	3.0	AR71 ARF71	4P
250	84	5.64	1.85			298	70	4.73	1.75		
291	72	4.85	2.1			349	60	4.04	2.4		
325	65	4.34	2.3			381	55	3.70	2.8		
368	57	3.83	2.5			434	48	3.25	3.8		
117	179	23.28	1.70			458	46	3.08	4.2		
125	168	21.81	1.80			523	40	2.70	5.3		
142	148	19.27	2.0			581	36	2.43	5.9		
153	138	17.89	2.1			662	32	2.13	6.3		
168	125	16.22	2.2			750	28	1.88	6.7		
187	112	14.56	2.4	AR47 ARF47	2P	846	25	1.67	7.0	AR61 ARF61	4P
218	97	12.54	2.6			991	21	1.42	7.3		
231	91	11.79	2.7			374	56	3.77	1.55		
269	78	10.15	2.9			441	48	3.20	2.1		
301	70	9.07	3.2			488	43	2.89	2.5		
341	62	8.01	3.3			555	38	2.54	3.1		
90	230	15.60	0.85	AR37 ARF37	4P	588	36	2.40	3.4		
106	198	13.25	0.95			690	30	2.04	4.4		
119	176	11.83	1.05			759	28	1.86	4.6		
						876	24	1.61	4.8		
						1005	21	1.40	5.0		



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	
2.2KW						3.0KW						
450	47	3.14	1.40	AR51 ARF51	4P	6.1	4710	229.95	0.90	AR107 ARF107	4P	
534	39	2.64	1.75			6.9	4160	203.16	1.05			
595	35	2.37	1.95			8.1	3530	172.34	1.20			
691	30	2.04	2.3			8.8	3250	158.68	1.30			
734	29	1.92	2.4			9.9	2900	141.83	1.50			
853	25	1.65	2.8			11	2610	127.68	1.65			
955	22	1.48	3.1			12	2370	115.63	1.80			
1080	19	1.30	3.2			14	2100	102.53	2.0			
3.0KW						3.0KW						
1.2	20900	1123	0.85	AR167 AR97 ARF167AR97	4P	9.3	3090	150.78	0.95	AR97 ARF97	4P	
1.4	18600	999	0.95			11	2590	126.75	1.15			
1.6	16000	861	1.10			12	2380	116.48	1.25			
1.8	14200	760	1.25			14	2120	103.44	1.40			
2.1	12100	656	1.50			15	1890	92.48	1.60			
2.8	9280	503	1.95	AR147 AR87 ARF147AR87	4P	17	1700	83.15	1.75	AR87 ARF87	4P	
2.6	9880	533	1.30			19	1480	72.17	2.0			
3.0	8540	462	1.50			21	1330	65.21	2.2			
3.3	7940	426	1.65			23	1230	59.92	2.5			
3.8	6860	368	1.90			26	1090	53.21	2.8			
4.3	6070	326	2.1			29	970	47.58	3.1			
5.0	5180	280	2.5			33	880	42.78	3.4			
1.6	16600	889	0.80			AR147 AR77 ARF147AR77	4P	38	760			37.13
	1.8	14700	784	0.90	42			680	33.25	4.2		
	2.0	13000	695	1.00	15			1910	93.38	0.80		
	2.3	11600	619	1.10	17			1680	81.92	0.90		
2.5	10500	558	1.25	AR137 AR77 ARF137AR77	4P	19	1490	72.57	1.05	AR77 ARF77	4P	
2.8	9160	490	0.85			22	1300	63.68	1.20			
3.3	7990	428	1.00			23	1230	60.35	1.25			
3.7	7150	381	1.10			27	1080	52.82	1.45			
4.3	6070	323	1.30			29	970	47.58	1.60			
4.8	5460	291	1.45			34	850	41.74	1.80			
5.5	4770	255	1.70			38	755	36.84	2.1			
6.3	4180	223	1.90			43	670	32.66	2.3			
2.7	9870	517	0.80			50	570	27.88	2.6			
3.1	8650	453	0.95			41	705	34.40	2.1			
5.5	4730	253	0.90			AR107 AR77 ARF107AR77	4P	45	640			31.40
	6.5	4010	214	1.05	50			570	27.84	2.7		
	7.5	3500	187	1.25	60			480	23.40	3.2		
	5.5	4870	256	0.90	65			440	21.51	3.4		
3.2	8860	222.60	0.90	AR137 ARF137	8P	73	390	19.10	3.7			
3.8	7500	188.45	1.05			82	350	17.08	4.0			
4.1	6940	174.40	1.15			91	315	15.35	4.3			
4.6	6220	156.31	1.30			31	940	45.81	0.85			
5.1	5620	141.12	1.40			32	890	43.26	0.95			
5.6	5100	128.18	1.55			38	755	36.83	1.10			
6.3	4520	113.72	1.75			42	685	33.47	1.20			
7.0	4110	103.20	1.95			48	595	29.00	1.40			
8.1	3530	88.70	2.3	55	515	25.23	1.50					
4.2	6780	222.60	1.20	AR137 ARF137	6P	60	480	23.37	1.70			
	5.0	5740	188.45			1.40	65	440	21.43			1.85
	5.4	5320	174.40			1.50	74	385	18.80			2.0
	6.0	4760	156.31			1.70	79	365	17.82			2.1
	6.7	4300	141.12			1.85	90	320	15.60			2.3
	7.3	3910	128.18			2.0	100	290	14.05			2.5
	8.3	3470	113.72			2.3	114	250	12.33			2.7
	9.1	3150	103.20			2.5	129	225	10.88			3.0
5.9	4840	158.68	0.90	AR107 ARF107	6P	145	197	9.64	3.2			
	6.6	4320	141.83			1.00	163	176	8.59			3.6
	7.4	3890	127.68			1.10	181	158	7.74			3.8
							206	139	6.79			4.2



AR

Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
3.0KW						3.0KW					
60	480	23.44	1.15	AR67 ARF67	4P	346	83	2140	1.45	AR37 ARF37	4P
70	405	19.89	1.45			411	70	2180	1.60	AR37 ARF37	
78	365	17.95	1.60			277	103	10.11	1.65	AR37 ARF37	2P
89	325	15.79	1.75			296	97	9.47	1.70		
94	305	14.91	1.80			351	82	7.97	1.90		
110	260	12.70	2.0			420	68	6.67	2.1		
121	235	11.54	2.1			494	58	5.67	2.5		
140	205	10.00	2.3			553	52	5.06	2.6		
52	550	26.97	0.80	AR57 ARF57	4P	648	44	4.32	2.8	AR27 ARF27	4P
64	450	21.93	1.00			692	41	4.05	3.0		
75	380	18.60	1.20			821	35	3.41	3.2		
83	345	16.79	1.30			250	115	5.60	0.85	AR27 ARF27	4P
95	300	14.77	1.45			280	102	5.00	0.95		
100	285	13.95	1.50			328	87	4.27	1.00		
118	245	11.88	1.65			350	82	4.00	1.05		
130	220	10.79	1.75			415	69	3.37	1.15		
150	191	9.35	1.95			425	67	6.59	1.55	AR27 ARF27	2P
155	185	9.06	2.0			500	57	5.60	1.75		
176	163	7.97	2.2			560	51	5.00	1.85		
186	154	7.53	2.3			656	44	4.27	2.0		
218	131	6.41	2.6			700	41	4.00	2.1		
240	119	5.82	2.7			831	35	3.37	2.3		
277	103	5.05	3.0								
319	90	4.39	3.1								
128	225	21.93	2.0	AR57 ARF57	2P	217	132	6.45	1.45	AR81 ARF81	4P
151	190	18.60	2.4			252	114	5.56	2.0		
167	172	16.79	2.6			276	104	5.07	2.4		
190	151	14.77	2.9			311	92	4.50	3.2	AR71 ARF71	4P
201	143	13.95	3.0			370	77	3.78	3.9		
236	122	11.88	3.3			296	97	4.73	1.25		
259	110	10.79	3.5			347	83	4.04	1.75		
86	330	16.22	0.85	AR47 ARF47	4P	378	76	3.70	2.0	AR61 ARF61	4P
96	300	14.56	0.90			431	67	3.25	2.7		
112	255	12.54	0.95			455	63	3.08	3.1		
119	240	11.79	1.00			371	77	3.77	1.15	AR51 ARF51	4P
138	210	10.15	1.10			438	66	3.20	1.55		
154	186	9.07	1.20			485	59	2.89	1.80		
175	164	8.01	1.25			551	52	2.54	2.3		
181	159	7.76	1.05			583	49	2.40	2.5		
201	143	6.96	1.10			685	42	2.04	3.2		
233	123	6.00	1.25			754	38	1.86	3.3		
248	115	5.64	1.35			870	33	1.61	3.5		
288	99	4.85	1.50			1000	29	1.40	3.6		
323	89	4.34	1.65								
365	78	3.83	1.85								
237	121	11.79	2.0	AR47 ARF47	2P	446	64	3.14	1.00	AR51 ARF51	4P
276	104	10.15	2.2			530	54	2.64	1.30		
309	93	9.07	2.4			591	49	2.37	1.40		
349	82	8.01	2.5			686	42	2.04	1.65		
361	79	7.76	2.1			729	39	1.92	1.75		
402	71	6.96	2.2			847	34	1.65	2.0		
467	61	6.00	2.5			948	30	1.48	2.2		
496	58	5.64	2.7			1075	27	1.30	2.4		
577	50	4.85	3.0			4.0KW					
646	44	4.34	3.3			1.6	21200	861	0.85	AR167 AR97 ARF167AR97	4P
731	39	3.83	3.7			1.9	18700	760	0.95		
						2.2	16000	656	1.10		
						2.8	12300	503	1.45		
						3.8	9190	376	1.95		
139	205	10.11	0.80	AR37 ARF37	4P	4.2	8180	335	2.2		
148	194	9.47	0.85			2.7	13100	533	1.00	AR147 AR87 ARF147AR87	4P
176	163	7.97	0.95			3.1	11300	462	1.15		
210	137	6.67	1.05			3.3	10500	426	1.25		
247	116	5.67	1.25			3.8	9060	368	1.45		
277	104	5.06	1.30								
324	88	4.32	1.45								



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
4.0KW						4.0KW					
4.4	8010	326	1.60	AR147 AR87 ARF147AR87	4P	33	1150	42.78	2.6	AR97 ARF97	4P
5.1	6850	280	1.90			38	1000	37.13	3.0		
5.7	6050	247	2.2			43	890	33.25	3.2		
6.7	5220	214	2.5			44	860	32.05	3.0		
7.5	4620	189	2.8			52	730	27.19	3.5		
8.9	3880	159	3.3			57	675	25.03	4.2		
2.3	15300	619	0.85	AR147 AR77 ARF147AR77	4P	63	600	22.37	4.5	AR87 ARF87	4P
2.5	13800	558	0.95			71	540	20.14	4.8		
2.9	12100	489	1.10			22	1710	63.68	0.90		
3.4	10200	415	1.25			24	1620	60.35	0.95		
3.7	9430	381	0.85	AR137 AR77 ARF137AR77	4P	27	1420	52.82	1.10	AR77 ARF77	4P
4.4	8000	323	1.00			30	1280	47.58	1.20		
4.9	7200	291	1.10			34	1120	41.74	1.40		
5.6	6290	255	1.25			39	990	36.84	1.55		
6.3	5520	223	1.45			43	880	32.66	1.75		
3.8	9440	376	0.85			51	750	27.88	2.0		
4.2	8500	339	0.95			41	930	34.40	1.6		
4.8	7450	297	1.05			45	840	31.40	1.85		
7.6	4620	187	0.95	AR107 AR77 ARF107AR77	4P	51	750	27.84	2.1	AR57 ARF57	4P
7.3	4840	193	0.90			61	630	23.40	2.5		
8.2	4330	172	1.00			66	580	21.51	2.6		
4.4	8660	163.57	1.50	AR147 ARF147	8P	74	515	19.10	2.8	AR67 ARF67	4P
4.9	7790	147.14	1.65			83	460	17.08	3.0		
6.0	6360	120.04	2.0			92	415	15.35	3.2		
6.6	5800	109.48	2.2			107	360	13.33	3.6		
4.1	9250	174.40	0.85	AR137 ARF137	8P	119	320	11.93	3.8	AR77 ARF77	4P
4.6	9290	156.31	0.95			39	990	36.83	0.85		
5.1	7490	141.12	1.05			42	900	33.47	0.90		
5.6	6800	128.18	1.20			49	780	29.00	1.05		
6.3	6030	113.72	1.35			56	680	25.23	1.15		
7.0	5470	103.20	1.45			61	630	23.37	1.30		
4.3	8860	222.60	0.90	AR137 ARF137	6P	66	575	21.43	1.40	AR67 ARF67	4P
5.1	7500	188.45	1.05			76	505	18.80	1.55		
5.5	6940	174.40	1.15			80	480	17.82	1.65		
6.1	6220	156.31	1.30			91	420	15.60	1.75		
6.8	5620	141.12	1.40			101	380	14.05	1.90		
7.5	5100	128.18	1.55			115	330	12.33	2.1		
8.4	4520	113.72	1.75			131	295	10.88	2.3		
9.3	4110	103.20	1.95			147	260	9.64	2.4		
11	3530	88.70	2.3			165	230	8.59	2.7		
8.2	4640	172.34	0.95	AR107 ARF107	4P	183	210	7.74	2.9		
8.9	4270	158.68	1.00			209	183	6.79	3.2		
10	3820	141.83	1.15			237	161	5.99	3.3		
11	3430	127.68	1.25			267	143	5.31	3.6		
12	3110	115.63	1.40			71	535	19.89	1.10	AR57 ARF57	4P
14	2760	102.53	1.55			79	485	17.95	1.20		
15	2490	92.70	1.70			90	425	15.79	1.30		
18	2110	78.57	2.0			95	400	14.91	1.35		
19	1960	72.88	2.2			112	340	12.70	1.50		
22	1760	65.60	2.4			123	310	11.54	1.60		
24	1600	59.41	2.7			142	270	10.00	1.75		
27	1420	52.68	3.0			163	235	8.70	1.90		
12	3130	116.48	0.95	AR97 ARF97	4P	182	210	7.79	1.80		
14	2780	103.44	1.10			193	198	7.36	1.85		
15	2490	92.48	1.20			227	169	6.27	1.95		
17	2240	83.15	1.35			249	153	5.70	2.0		
20	1940	72.17	1.55			288	133	4.93	2.2		
22	1750	65.21	1.70			331	116	4.29	2.3		
24	1610	59.92	1.85			76	500	18.60	0.90		
27	1430	53.21	2.1			85	450	16.79	1.00		
30	1280	47.58	2.3			96	395	14.77	1.10		
						102	375	13.95	1.15		
						120	320	11.88	1.25		
						132	290	10.79	1.35		
						152	250	9.35	1.45		

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
4.0KW						5.5KW					
157	245	9.06	1.55	AR57 ARF57	4P	2.2	22000	656	0.80	AR167 AR97 ARF167AR97	4P
178	215	7.97	1.65			2.5	19300	579	0.95		
189	205	7.53	1.75			2.8	16900	503	1.05		
222	172	6.41	1.95			3.3	14400	432	1.25		
244	157	5.82	2.0			3.8	12600	376	1.45		
281	136	5.05	2.2			4.3	11200	335	1.60		
323	118	4.39	2.4			4.7	10100	303	1.80		
						5.1	9310	279	1.95		
140	275	10.15	0.85	AR47 ARF47	4P	3.1	15500	462	0.85	AR147 AR87 ARF147AR87	4P
157	245	9.07	0.90			3.3	14400	426	0.90		
177	215	8.01	0.95			3.9	12400	368	1.05		
204	187	6.96	0.85			4.4	11000	326	1.20		
237	161	6.00	0.95			5.1	9410	280	1.40		
252	152	5.64	1.00			5.8	8300	247	1.55		
293	131	4.85	1.15			6.7	7170	214	1.80		
327	117	4.34	1.25			7.6	6340	189	2.0		
371	103	3.83	1.40								
176	215	16.22	1.25	AR47 ARF47	2P	3.1	17000	229.71	1.05	AR167 ARF167	8P
196	195	14.56	1.35			3.8	13800	186.93	1.30		
228	168	12.54	1.50			4.6	11300	153.07	1.60		
242	158	11.79	1.55			5.1	10400	139.98	1.75		
282	136	10.15	1.70			5.8	9010	121.81	2.0		
315	121	9.07	1.80			4.3	12100	163.31	1.10	AR147 ARF147	8P
357	107	8.01	1.90			4.8	10900	146.91	1.20		
369	104	7.76	1.55			5.9	8870	119.86	1.45		
411	93	6.96	1.70		4P	6.5	8090	109.31	1.60	AR147 ARF147	6P
477	80	6.00	1.95			5.9	8930	163.57	1.45		
507	75	5.64	2.1			6.5	8040	147.14	1.60		
589	65	4.85	2.3			8.0	6560	120.14	2.0		
660	58	4.34	2.5			8.8	5980	109.48	2.2		
746	51	3.83	2.8			10	5180	94.75	2.5		
255	150	5.56	1.50	AR81 ARF81	4P	12	4570	83.60	2.8		
280	137	5.07	1.85			5.5	9480	128.18	0.85	AR137 ARF137	8P
316	121	4.50	2.4			6.2	8410	113.72	0.95		
375	102	3.78	3.0			6.9	7630	103.20	1.05		
				8.0	6560	88.70	1.20				
351	109	4.04	1.30	AR71 ARF71	4P	5.5	9540	174.40	0.85	AR137 ARF137	6P
383	100	3.70	1.55			6.1	8550	156.31	0.95		
437	87	3.25	2.1			6.8	7720	141.12	1.05		
461	83	3.08	2.3			7.5	7010	128.18	1.15		
527	73	2.70	3.0			8.4	6220	113.72	1.30		
585	65	2.43	3.3			9.3	5650	103.20	1.40		
667	57	2.13	3.5								
755	51	1.88	3.7		4P	6.4	8180	222.60	1.00	AR137 ARF137	4P
852	45	1.67	3.9			7.6	6920	188.45	1.15		
998	38	1.42	4.1			8.2	6410	174.40	1.25		
				9.1		5740	156.31	1.40			
444	86	3.20	1.15	10		5180	141.12	1.55			
492	78	2.89	1.35	11		4710	128.18	1.70			
559	68	2.54	1.75	13		4180	113.72	1.90			
592	65	2.40	1.90	14		3790	103.20	2.1			
695	55	2.04	2.4	16		3260	88.70	2.5			
765	50	1.86	2.5	18		2970	80.91	2.7			
883	43	1.61	2.6	19		2700	73.49	3.0			
1015	38	1.40	2.8	22	2390	65.20	3.3				
				24	2170	59.17	3.7	AR107 ARF107	4P		
538	71	2.64	0.95	28	1870	50.86	4.3				
599	64	2.37	1.10	11	4690	127.68	0.90				
696	55	2.04	1.25	12	4250	115.63	1.00				
740	52	1.92	1.35	14	3770	102.53	1.15				
859	44	1.65	1.55	15	3400	92.70	1.25				
962	40	1.48	1.70	18	2890	78.57	1.50				
1090	35	1.30	1.80	20	2680	72.88	1.60				



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
5.5KW						5.5KW					
22	2410	65.60	1.80	AR107 ARF107	4P	331	159	8.70	2.8	AR67 ARF67	6P
24	2180	59.41	1.95			369	142	7.79	2.7		
27	1930	52.68	2.2			391	134	7.36	2.8		
30	1750	47.63	2.5			460	114	6.27	2.9		
35	1480	40.37	2.9			506	104	5.70	3.0		
						584	90	4.93	3.2		
						671	78	4.29	3.5		
17	3050	83.15	1.00	AR97 ARF97	4P	97	545	14.77	0.80	AR57 ARF57	4P
20	2650	72.17	1.15			103	510	13.95	0.85		
22	2390	65.21	1.25			120	435	11.88	0.95		
24	2200	59.92	1.35			132	395	10.79	1.00		
27	1950	53.21	1.55			153	345	9.35	1.10		
30	1750	47.58	1.70			179	295	7.97	1.20		
33	1570	42.78	1.90			190	275	7.53	1.25		
39	1360	37.13	2.2			223	235	6.41	1.40		
43	1220	33.25	2.4			246	215	5.82	1.50		
52	1010	27.58	2.6			283	185	5.05	1.65		
45	1180	32.05	2.2			326	161	4.39	1.75		
53	1000	27.19	2.6								
57	920	25.03	3.1								
64	820	22.37	3.3								
71	740	20.14	3.5								
78	670	18.24	3.7								
88	595	16.17	4.0								
30	1750	47.58	0.90	AR87 ARF87	4P	308	171	9.35	2.2	AR57 ARF57	2P
34	1530	41.74	1.00			361	145	7.97	2.4		
39	1350	36.84	1.15			383	137	7.53	2.5		
44	1200	32.66	1.30			449	117	6.41	2.9		
51	1020	27.88	1.45			494	106	5.82	3.0		
51	1020	27.84	1.50			571	92	5.05	3.3	AR47 ARF47	4P
61	860	23.40	1.80			656	80	4.39	3.5		
66	790	21.51	1.90								
75	700	19.10	2.0			295	178	4.85	0.85		
84	625	17.08	2.2			330	159	4.34	0.90		
93	565	15.35	2.4			373	141	3.83	1.00	AR47 ARF47	2P
107	490	13.33	2.6			230	230	12.54	1.10		
120	440	11.93	2.8			244	215	11.79	1.15		
144	365	9.90	3.2			284	185	10.15	1.25		
156	335	9.14	3.6			318	165	9.07	1.35		
174	300	8.22	3.8			359	146	8.01	1.40		
200	260	7.13	4.1			480	109	6.00	1.45		
						511	103	5.64	1.50		
						593	89	4.85	1.70		
						664	79	4.34	1.85		
						752	70	3.83	2.1		
76	690	18.80	1.15	AR77 ARF77	4P	216	245	6.63	1.90	AR101 ARF101	4P
80	655	17.82	1.20			255	205	5.61	2.2		
92	575	15.60	1.30			276	191	5.19	3.7		
102	515	14.05	1.40			307	171	4.65	4.1		
116	455	12.33	1.50			247	215	5.79	1.95	AR91 ARF91	4P
131	400	10.88	1.65			291	180	4.91	2.2		
148	355	9.64	1.80			316	166	4.52	3.6		
166	315	8.59	2.0			354	149	4.04	4.0		
185	285	7.74	2.2			393	134	3.64	4.4		
211	250	6.79	2.3			434	121	3.30	4.9		
239	220	5.99	2.5			489	107	2.92	5.5		
269	195	5.31	2.6			541	97	2.64	6.1		
						638	82	2.24	7.2		
						731	72	1.96	7.9		
						874	60	1.64	8.4		
						1010	52	1.42	8.8		
91	580	15.79	0.95	AR67 ARF67	4P	318	165	4.50	1.75	AR81 ARF81	4P
96	550	14.91	1.00			378	139	3.78	2.2		
113	465	12.70	1.10			411	128	3.48	3.2		
124	425	11.54	1.20			463	113	3.09	3.6		
143	365	10.00	1.30			518	101	2.76	4.0		
164	320	8.70	1.40			576	91	2.48	4.4		
183	285	7.79	1.35			664	79	2.15	4.9		
194	270	7.36	1.35								
228	230	6.27	1.45								
251	210	5.70	1.50								
290	181	4.93	1.60								
333	158	4.29	1.70								

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole				
5.5KW						7.5KW									
440	119	3.25	1.50	AR71 ARF71	4P	7.6	9440	188.45	0.85	AR137 ARF137	4P				
464	113	3.08	1.70			8.2	8730	174.40	0.90						
530	99	2.70	2.2			9.1	7830	156.31	1.00						
589	89	2.43	2.4			10	7070	141.12	1.15						
671	78	2.13	2.6			11	6420	128.18	1.25						
761	69	1.88	2.7			13	5700	113.72	1.40						
858	61	1.67	2.8			14	5170	103.20	1.55						
1005	52	1.42	3.0			16	4440	88.70	1.80						
563	93	2.54	1.25	AR61 ARF61	4P	18	4050	80.91	1.95						
596	88	2.40	1.40			19	3680	73.49	2.2						
700	75	2.04	1.80			22	3270	65.20	2.5						
770	68	1.86	1.85			24	2960	59.17	2.7						
889	59	1.61	1.95			28	2550	50.86	3.1						
1020	51	1.40	2.0			15	4640	92.70	0.95			AR107 ARF107	4P		
700	75	2.04	0.90	18	3940	78.57	1.10								
745	71	1.92	1.00	20	3650	72.88	1.20								
866	61	1.65	1.15	22	3290	65.60	1.30								
969	54	1.48	1.25	24	2980	59.41	1.45								
1095	48	1.30	1.30	27	2640	52.68	1.65								
7.5KW						30	2390	47.63	1.80	AR97 ARF97	4P				
2.8	23100	503	0.80	35	2020	40.37	2.1								
3.3	19800	432	0.90	41	1770	35.26	2.4								
3.8	17300	376	1.05	48	1480	29.49	2.9								
4.3	15400	335	1.15	46	1540	30.77	2.8								
4.7	13900	303	1.30	52	1380	27.58	3.1								
5.1	12800	279	1.40	57	1250	24.90	3.5								
						63	1130	22.62	3.8					AR87 ARF87	4P
4.4	15000	326	0.85	24	3000	59.92	1.00								
5.1	12900	280	1.00	27	2670	53.21	1.15								
5.8	11400	247	1.15	30	2380	47.58	1.25								
6.7	9810	214	1.30	33	2140	42.78	1.40								
7.6	8680	189	1.50	39	1860	37.13	1.60								
9.0	7290	159	1.80	43	1670	33.25	1.75								
3.1	22900	229.71	0.80	52	1380	27.58	1.95	AR77 ARF77	4P						
3.8	18600	186.93	0.95	45	1610	32.05	1.60								
4.7	15200	153.07	1.20	53	1360	27.19	1.90								
5.1	13900	139.98	1.30	57	1250	25.03	2.3								
5.9	12100	121.81	1.50	64	1120	22.37	2.4								
						71	1010			20.14	2.6				
4.2	17100	229.71	1.05	AR167 ARF167	6P	78	910			18.24	2.7				
5.1	13900	186.93	1.30			39	1840			36.84	0.85				
6.3	11400	153.07	1.60			44	1640			32.66	0.95				
6.9	10400	139.98	1.70			51	1400			27.88	1.05				
7.9	9090	121.81	2.0			51	1390			27.84	1.10				
8.9	8020	107.49	2.2			61	1170			23.40	1.30				
10	6950	93.19	2.6			66	1080			21.51	1.40				
12	6190	82.91	2.9			75	960			19.10	1.50				
13	5500	73.70	3.3			84	860			17.08	1.65				
14	5030	67.40	3.6			93	770	15.35	1.75						
4.4	16200	163.57	0.80	AR147 ARF147	8P	107	670	13.33	1.90						
4.9	14600	147.14	0.90			120	600	11.93	2.1						
6.0	11900	120.04	1.10			144	495	9.90	2.4						
6.6	10900	109.48	1.20			156	460	9.14	2.6						
5.9	12200	163.57	1.05			174	410	8.22	2.8						
6.5	11000	147.14	1.20			200	355	7.13	3.0						
8.0	8940	120.04	1.45	AR147 ARF147	6P	224	320	6.39	3.2						
8.8	8150	109.48	1.60			270	265	5.30	3.4						
10	7060	94.75	1.85			76	940	18.80	0.85						
12	6230	83.60	2.1			80	890	17.82	0.85						
						92	780	15.60	0.95						
						102	705	14.05	1.00						
						116	615	12.33	1.10						
						131	545	10.88	1.20						
						148	485	9.64	1.30						
						166	430	8.59	1.45						



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
7.5KW						7.5KW					
185	390	7.74	1.55	AR77 ARF77	4P	563	127	2.54	0.95	AR61 ARF61	4P
211	340	6.79	1.70			596	120	2.40	1.00		
239	300	5.99	1.80			700	102	2.04	1.30		
269	265	5.31	1.90			770	93	1.86	1.35		
						889	81	1.61	1.40		
						1020	70	1.40	1.50		
11KW						11KW					
113	635	12.70	0.80	AR67 ARF67	4P	4.9	19600	295	0.90	AR167 AR107 ARF167AR107	4P
124	580	11.54	0.85			5.3	18100	270	1.00		
143	500	10.00	0.95			6.3	15300	229	1.20		
164	435	8.70	1.00			7.2	13400	200	1.35		
183	390	7.79	0.95			8.5	11300	169	1.60		
194	370	7.36	1.00			5.0	19800	291	0.90		
228	315	6.27	1.05								
251	285	5.70	1.10								
290	245	4.93	1.15								
333	215	4.29	1.25								
17P						17P					
179	400	7.97	0.90	AR57 ARF57	4P	4.3	22500	335	0.80	AR167 AR97 ARF167AR97	4P
190	375	7.53	0.95			4.8	20300	303	0.90		
223	320	6.41	1.05			5.2	18700	279	0.95		
246	290	5.82	1.10			5.8	16600	247	0.80		
283	255	5.05	1.20			6.7	14300	214	0.90		
326	220	4.39	1.25			7.6	12700	189	1.05	AR147 AR87 ARF147AR87	4P
						9.1	10700	159	1.20		
2P						2P					
196	365	14.77	1.20	AR57 ARF57	2P	5.1	20500	186.93	0.90	AR167 ARF167	6P
208	345	13.95	1.25			6.3	16700	153.07	1.05		
244	295	11.88	1.40			6.9	15300	139.98	1.20		
269	265	10.79	1.45			7.9	13300	121.81	1.35		
310	230	9.35	1.60			6.3	16800	229.71	1.05	AR167 ARF167	4P
364	197	7.97	1.80			7.7	13600	186.93	1.30		
385	186	7.53	1.90			9.4	11200	153.07	1.60		
452	158	6.41	2.1			10	10200	139.98	1.75		
498	144	5.82	2.2			12	8890	121.81	2.0		
575	125	5.05	2.5	13	7840	107.49	2.3	AR147 ARF147	6P		
660	108	4.39	2.6	15	6800	93.19	2.7				
				17	6050	82.91	3.0				
4P						4P					
216	330	6.63	1.40	AR101 ARF101	4P	6.5	16100	147.14	0.80	AR147 ARF147	6P
255	280	5.61	1.60			8.0	13100	120.04	1.00		
276	260	5.19	2.7			8.8	12000	109.48	1.10		
307	235	4.65	3.0			10	10400	94.75	1.25		
340	210	4.20	3.9			12	9130	83.60	1.40		
4P						4P					
247	290	5.79	1.45	AR91 ARF91	4P	8.8	11900	163.57	1.10	AR147 ARF147	4P
291	245	4.91	1.60			9.8	10700	147.14	1.20		
316	225	4.52	2.6			12	8740	120.04	1.50		
354	205	4.04	2.9			13	7970	109.48	1.65		
393	182	3.64	3.3			15	6900	94.75	1.90		
434	165	3.30	3.6			17	6090	83.60	2.1		
489	146	2.92	4.1			20	5260	72.20	2.5		
4P						4P					
318	225	4.50	1.30	AR81 ARF81	4P	22	4890	67.09	2.7	AR137 ARF137	4P
378	189	3.78	1.60			24	4460	61.19	2.9		
411	174	3.48	2.3			27	3860	52.96	3.4		
463	155	3.09	2.6			10	10300	141.12	0.80		
518	138	2.76	2.9			11	9350	128.18	0.85		
576	124	2.48	3.3			13	8300	113.72	0.95		
664	108	2.15	3.6			14	7530	103.20	1.05		
741	97	1.93	3.7			16	6470	88.70	1.25		
894	80	1.60	3.9			18	5900	80.91	1.35		
1030	70	1.39	4.2			20	4360	73.49	1.50		
4P						4P					
440	163	3.25	1.10	AR71 ARF71	4P	22	4760	65.20	1.70	AR137 ARF137	4P
464	154	3.08	1.25			24	4320	59.17	1.85		
530	135	2.70	1.60			28	3710	50.86	2.2		
589	122	2.43	1.75			32	3240	44.39	2.5		
671	107	2.13	1.85			38	2750	37.65	2.9		
761	94	1.88	2.0			44	2400	32.91	3.3		
858	84	1.67	2.1								
1005	71	1.42	2.2								

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole		
11KW						11KW							
22	4790	65.60	0.90	AR 107 ARF107	4P	545	193	2.64	3.1	AR91 ARF91	4P		
24	4330	59.41	1.00			643	163	2.24	3.6				
27	3840	52.68	1.10			736	143	1.96	4.0				
30	3470	47.63	1.25			880	119	1.64	4.2				
36	2940	40.37	1.45			1015	103	1.42	4.4				
41	2570	35.26	1.65			414	255	3.48	1.60	AR81 ARF81	4P		
49	2150	29.49	2.0			466	225	3.09	1.80				
47	2240	30.77	1.90			522	200	2.76	2.0				
52	2010	27.58	2.1			580	181	2.48	2.2				
58	1820	24.90	2.4			669	157	2.15	2.5				
64	1650	22.62	2.6			747	141	1.93	2.5				
72	1460	20.07	2.9	900	117	1.60	2.7						
79	1330	18.21	3.2	1035	102	1.39	2.9						
34	3120	42.78	0.95	AR97 ARF97	4P	593	177	2.43	1.20	AR71 ARF71	4P		
39	2710	37.13	1.10			676	155	2.13	1.30				
43	2430	33.25	1.20			766	137	1.88	1.35				
52	2010	27.58	1.35			864	122	1.67	1.40				
58	1830	25.03	1.55			1010	104	1.42	1.50				
64	1630	22.37	1.65			15KW						AR167 AR107 ARF167AR107	4P
71	1470	20.14	1.80			6.4	20700	229	0.85				
79	1330	18.24	1.90			7.3	18100	200	1.00				
89	1180	16.17	2.0			8.6	15200	169	1.20				
98	1070	14.62	2.2			6.4	20800	227	0.85				
116	900	12.39	2.4			7.4	18100	198	1.00	AR167 ARF167	6P		
133	790	10.83	2.7			6.3	22600	153.07	0.80				
155	675	9.29	3.0			6.9	20700	139.98	0.85				
172	610	8.39	3.3			8.0	18000	121.81	1.00				
202	520	7.12	3.8	AR87 ARF87	4P	9.0	15900	107.49	1.15	AR167 ARF167	4P		
232	455	6.21	4.2			6.4	22500	229.71	0.80				
67	1570	21.51	0.95			7.8	18300	186.93	1.00				
75	1390	19.10	1.05			9.5	15000	153.07	1.20				
84	1250	17.08	1.10			10	13700	139.98	1.30				
94	1120	15.35	1.20			12	12000	121.81	1.50				
108	970	13.33	1.30			14	10500	107.49	1.70				
121	870	11.93	1.40			16	9140	93.19	1.95				
145	720	9.90	1.65			18	8130	82.91	2.2				
158	665	9.14	1.80			20	7230	73.70	2.5				
175	600	8.22	1.95	22	6610	67.40	2.7	AR147 ARF147	6P				
202	520	7.13	2.1	8.9	16100	109.48	0.80						
225	465	6.39	2.2	10	14000	94.75	0.95						
272	385	5.30	2.3	12	12300	83.60	1.05						
132	795	10.88	0.85	13	10600	72.20	1.20						
149	705	9.64	0.90	14	9890	67.09	1.30	AR147 ARF147	4P				
186	565	7.74	1.10	8.9	16000	163.57	1.80						
212	495	6.79	1.15	9.9	14400	147.14	0.90						
240	435	5.99	1.25	12	11800	120.04	1.10						
271	390	5.31	1.30	13	10700	109.48	1.20						
277	380	5.19	1.85	15	9280	94.75	1.40						
310	340	4.65	2.0	17	8190	83.60	1.60						
343	305	4.20	2.7	20	7070	72.20	1.85						
377	280	3.81	3.0	22	6570	67.09	2.0						
425	245	3.38	3.4	24	5990	61.19	2.2						
469	225	3.07	3.7	28	5190	52.96	2.5						
545	193	2.64	4.3	31	4580	46.73	2.8	AR137 ARF137	4P				
318	330	4.52	1.80	14	10100	103.20	0.80						
356	295	4.04	2.0	16	8700	88.70	0.90						
396	265	3.64	2.2	18	7940	80.91	1.00						
437	240	3.30	2.5	20	7210	73.49	1.10						
493	215	2.92	2.8										



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole				
15KW						15KW									
22	6400	65.20	1.25	AR137 ARF137	4P	420	340	3.48	1.20	AR81 ARF81	4P				
25	5800	59.17	1.40			473	305	3.09	1.35						
29	4990	50.86	1.60			529	270	2.76	1.50						
33	4360	44.39	1.85			588	245	2.48	1.65						
39	3690	37.65	2.2			678	210	2.15	1.80						
44	3230	32.91	2.5			757	189	1.93	1.90						
52	2730	27.83	2.8			913	157	1.60	2.0						
						1050	137	1.39	2.1						
						18.5KW									
31	4670	47.63	0.90	AR107 ARF107	4P	7.8	22500	186.93	0.80	AR167 ARF167	4P				
36	3960	40.37	1.10			9.6	18500	153.07	1.00						
41	3460	35.26	1.25			10	16900	139.98	1.05						
50	2890	29.49	1.50			12	14700	121.81	1.25						
47	3020	30.77	1.40			14	13000	107.49	1.40						
53	2710	27.58	1.60			16	11200	93.19	1.60						
59	2440	24.90	1.75			18	10000	82.91	1.80						
65	2220	22.62	1.95			20	8890	73.70	2.0						
73	1970	20.07	2.2			22	8130	67.40	2.2						
80	1790	18.21	2.4			25	7070	58.65	2.5						
93	1540	15.65	2.8												
107	1340	13.66	3.2												
53	2710	27.58	1.00	AR97 ARF97	4P	12	14500	120.04	0.90	AR147 ARF147	4P				
58	2460	25.03	1.15			13	13200	109.48	1.00						
65	2200	22.37	1.25			15	11400	94.75	1.15						
72	1980	20.14	1.30			18	10100	83.60	1.30						
80	1790	18.24	1.40			20	8690	72.20	1.50						
90	1590	16.17	1.50			22	8080	67.09	1.60						
100	1430	14.62	1.60			24	7370	61.19	1.75						
118	1220	12.39	1.80			28	6380	52.96	2.0						
135	1060	10.83	1.95			31	5630	46.73	2.3						
157	910	9.29	2.2			36	4860	40.35	2.7						
174	820	8.39	2.5												
205	700	7.12	2.9												
235	610	6.21	3.1												
85	1680	17.08	0.85			AR87 ARF87	4P	18	9760			80.91	0.80	AR137 ARF137	4P
95	1510	15.35	0.90	20	8860			73.49	0.90						
110	1310	13.33	1.00	22	7860			65.20	1.00						
122	1170	11.93	1.05	25	7140			59.17	1.10						
147	970	9.90	1.20	29	6130			50.86	1.30						
160	900	9.14	1.35	33	5350			44.39	1.50						
178	810	8.22	1.45	39	4540			37.65	1.75						
205	700	7.13	1.55	45	3970			32.91	2.0						
229	625	6.39	1.65	53	3360			27.83	2.3						
275	520	5.30	1.75	50	3570			29.57	2.2						
				61	2910			24.12	2.8						
				67	2650			22.00	3.0						
				77	2300			19.04	3.5						
				87	2030	16.80	4.0								
281	510	5.19	1.35	AR101 ARF101	4P	36	4870	40.37	0.90	AR107 ARF107	4P				
314	455	4.65	1.50			42	4250	35.26	1.00						
348	410	4.20	2.0			50	3560	29.49	1.20						
383	375	3.81	2.2			59	3000	24.90	1.45						
431	330	3.38	2.5			65	2730	22.62	1.60						
475	300	3.07	2.8			73	2420	20.07	1.80						
553	260	2.64	3.2			80	2200	18.21	1.95						
634	225	2.30	3.7			94	1890	15.65	2.3						
747	192	1.95	4.0			107	1650	13.66	2.6						
855	168	1.71	4.2			126	1400	11.59	3.1						
1010	142	1.44	4.6			145	1220	10.13	3.5						
						186	950	7.86	3.1						
						220	800	6.66	3.7						
323	445	4.52	1.35			AR91 ARF91	4P	73	2430			20.14	1.05	AR97 ARF97	4P
361	395	4.04	1.50	80	2200			18.24	1.15						
401	355	3.64	1.65	91	1950			16.17	1.25						
443	325	3.30	1.85	100	1760			14.62	1.30						
499	285	2.92	2.1	118	1490			12.39	1.45						
552	260	2.64	2.3	135	1310			10.83	1.60						
652	220	2.24	2.7	158	1120			9.29	1.80						
746	192	1.96	3.0												
892	161	1.64	3.2												
1030	139	1.42	3.3												

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Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole														
18.5KW						22KW																			
175	1010	8.39	2.0	AR97 ARF97	4P	22	9350	65.20	0.85	AR137 ARF137	4P														
206	860	7.12	2.3			25	8480	59.17	0.95																
236	750	6.21	2.5			29	7290	50.86	1.10																
282	625	5.20	2.8			33	6370	44.39	1.25																
326	545	4.50	3.0			39	5400	37.65	1.50																
110 123 148 160 178 205 229 276	1610 1440 1190 1100 990 860 770 640	13.33 11.93 9.90 9.14 8.22 7.13 6.39 5.30	0.80 0.85 1.00 1.10 1.15 1.25 1.30 1.40	AR87 ARF87	4P	45	4720	32.91	1.70			AR107 ARF107	4P												
						53	3990	27.83	1.90					50	4240	29.57	1.85								
						61	3460	24.12	2.3					67	3150	22.00	2.5								
						77	2730	19.04	2.9					87	2410	16.80	3.3								
						101	2080	14.51	3.8					114	1840	12.83	4.3								
						349 384 433 477 555 636 750 858 1015	505 460 410 370 320 280 235 205 174	4.20 3.81 3.38 3.07 2.64 2.30 1.95 1.71 1.44	1.65 1.80 2.0 2.2 2.6 3.0 3.2 3.4 3.7					AR101 ARF101	4P	42	5060	35.26	0.85	AR97 ARF97	4P				
																50	4230	29.49	1.00			59	3570	24.90	1.20
																65	3240	22.62	1.35			73	2880	20.07	1.50
80	2610	18.21	1.65	94	2240											15.65	1.90								
107	1960	13.66	2.2	126	1660					11.59	2.6														
145	1450	10.13	3.0	171	1230					8.56	3.5														
186	1130	7.86	2.6	220	960					6.66	3.1														
252	840	5.82	3.6	73	2890					20.14	0.90														
80	2620	18.24	0.95	91	2320					16.17	1.05														
100	2100	14.62	1.10	118	1780					12.39	1.25														
135	1550	10.83	1.35	158	1330					9.29	1.50														
175	1200	8.39	1.70	206	1020	7.12	1.95																		
236	890	6.21	2.1	282	745	5.20	2.4																		
326	645	4.50	2.5	148	1420	9.90	0.85	AR87 ARF87	4P																
160	1310	9.14	0.90	178	1180	8.22	1.00																		
205	1020	7.13	1.05	229	920	6.39	1.10																		
276	760	5.30	1.20	349	600	4.20	1.40																		
384	545	3.81	1.50	433	485	3.38	1.70																		
477	440	3.07	1.90	555	380	2.64	2.2																		
13 15 18 20 22 24 28 31 36 41 49	15700 13600 12000 10300 9610 8760 7580 6690 5780 5110 4300	109.48 94.75 83.60 72.20 67.09 61.19 52.96 46.73 40.35 35.69 30.00	0.85 0.95 1.10 1.25 1.35 1.50 1.70 1.95 2.2 2.5 3.0	AR147 ARF147	4P	636	330	2.30	2.5	AR101 ARF101	4P														
						750	280	1.95	2.7			858	245	1.71	2.9										
						1015	205	1.44	3.1			402	520	3.64	1.15										
						444	475	3.30	1.25			501	420	2.92	1.40										
						554	380	2.64	1.55			654	320	2.24	1.85										
						749	280	1.96	2.0			895	235	1.64	2.2										
						1035	205	1.42	2.2			402	520	3.64	1.15										
						444	475	3.30	1.25			501	420	2.92	1.40										
						554	380	2.64	1.55			654	320	2.24	1.85										
						749	280	1.96	2.0			895	235	1.64	2.2										
						1035	205	1.42	2.2																



Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole				
22KW						30KW									
531	395	2.76	1.00	AR81 ARF81	4P	283	1010	5.20	1.75	AR97 ARF97	4P				
590	355	2.48	1.15			327	880	4.50	1.85						
680	310	2.15	1.25			AR101 ARF101	4P								
760	275	1.93	1.30					434	660	3.38	1.25				
916	230	1.60	1.35					479	600	3.07	1.40				
1055	200	1.39	1.45					557	515	2.64	1.60				
30KW								638	450	2.30	1.85				
14	20900	107.49	0.85	AR167 ARF167	4P	752	380	1.95	2.0	AR91 ARF91	4P				
16	18200	93.19	1.00			860	335	1.71	2.1						
18	16200	82.91	1.10			1020	280	1.44	2.3						
20	14400	73.70	1.25			503	570	2.92	1.05						
22	13100	67.40	1.35									556	515	2.64	1.15
25	11400	58.65	1.55									656	435	2.24	1.35
28	10100	51.76	1.80							751	380	1.96	1.50		
33	8740	44.87	2.1							898	320	1.64	1.60		
37	7780	39.92	2.3			1040	275	1.42	1.65	AR167 ARF167	4P				
43	6710	34.41	2.7			37KW									
53	5450	24.96	3.3			16	22400	93.19	0.80						
62	4620	23.71	3.9			18	19900	82.91	0.90						
18	16300	83.60	0.80			AR147 ARF147	4P	20	17700			73.70	1.00		
				22	16200			67.40	1.10						
				25	14100			58.65	1.30						
				28	12400			51.76	1.45						
				33	10800			44.87	1.65						
				37	9600			39.92	1.90						
				43	8270			34.41	2.2						
				53	6720			27.96	2.7						
				48	7380			30.71	1.35						
				60	5900			24.57	2.4						
				67	5250			21.85	2.5						
				77	4580			19.03	3.5						
				87	4080			16.98	3.7						
29	9910	50.86	0.80	AR137 ARF137	4P	22	16100	67.09	0.80						
						24	14700	61.19	0.90						
						28	12700	52.96	1.00						
						32	11200	46.73	1.15						
						36	9680	40.35	1.35						
						41	8570	35.69	1.50						
						49	7200	30.00	1.80						
						61	5810	24.23	2.0						
						72	4910	20.47	2.4						
						82	4340	18.06	2.4						
						94	3760	15.66	3.5						
						106	3340	13.93	3.8						
						73	3910	20.07	1.10	AR107 ARF107	4P	39	9050	37.65	0.90
45	7910	32.91	1.00												
53	6690	27.83	1.15												
61	5800	24.12	1.40												
67	5290	22.00	1.50												
77	4580	19.04	1.75												
88	4040	16.80	2.0												
101	3490	14.51	2.3												
115	3080	12.83	2.6												
136	2590	10.79	3.1												
169	2090	8.71	3.7												
194	1820	7.59	2.8												
230	1530	6.38	3.3												
285	1240	5.15	3.7												
101	2850	14.62	0.80	AR97 ARF97	4P	73	4820	20.07	0.90	AR107 ARF107	4P				
						81	4380	18.21	1.00						
						94	3760	15.65	1.15						
						108	3280	13.66	1.30						
						127	2790	11.59	1.55						
						145	2430	10.13	1.75						

AR



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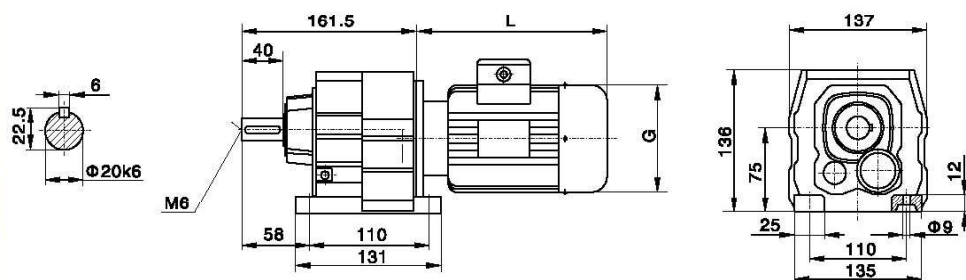
Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole	Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fa)	Type	Motor pole		
37KW						45KW							
172	2060	8.56	2.1	AR107 ARF107	4P	434	990	3.38	0.85	AR101 ARF101	4P		
187	1890	7.86	1.55			479	900	3.07	0.90				
221	1600	6.66	1.85			557	770	2.64	1.10				
252	1400	5.82	2.1			638	675	2.30	1.25				
299	1180	4.92	2.5			752	570	1.95	1.35				
						860	500	1.71	1.40				
						1020	420	1.44	1.55				
434						55KW							
479	740	3.07	1.10	AR101 ARF101	4P	25	20900	58.65	0.85	AR167 ARF167	4P		
447	635	2.64	1.30			29	18400	51.76	1.00				
638	555	2.30	1.50			33	16000	44.87	1.15				
752	470	1.95	1.65			37	14200	39.92	1.25				
860	410	1.71	1.70			43	12300	34.41	1.45				
1020	345	1.44	1.85							53	9960	27.96	1.80
						62	8440	23.71	2.1				
						60	8750	24.57	1.60				
						68	7780	21.85	1.65				
						77	6780	19.03	2.4				
						87	6050	16.98	2.5				
						102	5450	14.48	3.5				
						123	4270	11.99	4.0				
45KW													
20	21500	73.70	0.85	AR167 ARF167	4P	32	16600	46.73	0.80	AR147 ARF147	4P		
22	19700	67.40	0.90			37	14300	40.35	0.90				
25	17100	58.65	1.05			41	12700	35.69	1.00				
28	15100	51.76	1.20			49	10700	30.00	1.20				
33	13100	44.87	1.35			61	8610	24.23	1.40				
37	11700	39.92	1.55	AR147 ARF147	4P	72	7280	20.47	1.65	AR137 ARF137	4P		
43	10100	34.41	1.80			82	6420	18.06	1.65				
53	8170	27.96	2.2			94	5570	15.66	2.3				
62	6930	23.71	2.6			106	4950	13.93	2.5				
48	8980	30.71	1.10			123	4270	12.01	3.0				
60	7180	24.57	1.95	AR137 ARF137	4P	151	3470	9.76	3.8	AR167 ARF167	4P		
67	6390	21.85	2.0			203	2580	7.25	3.4				
77	5560	19.03	2.9			250	2100	5.89	4.1				
87	4960	16.98	3.0										
						77	6780	19.04	1.20				
						88	5980	16.80	1.35				
						102	5170	14.51	1.55				
						115	4570	12.83	1.75				
						137	3840	10.79	2.1				
						169	3100	8.71	2.5				
						194	2700	7.59	1.90				
						231	2270	6.38	2.2				
						286	1830	5.15	2.5				
45						75KW							
53	8130	27.83	0.95	AR137 ARF137	4P	33	21700	44.87	0.85	AR167 ARF167	4P		
61	7050	24.12	1.15			37	19300	39.92	0.95				
67	6430	22.00	1.25			43	16700	34.41	1.10				
77	5570	19.04	1.45			53	13500	27.96	1.35				
88	4910	16.80	1.65			62	11500	23.71	1.55				
101	4240	14.51	1.90	AR107 ARF107	4P	60	11900	24.57	1.20	AR147 ARF147	4P		
115	3750	12.83	2.1			68	10600	21.85	1.25				
136	3150	10.79	2.5			78	9210	19.03	1.75				
169	2550	8.71	3.1			87	8220	16.98	1.85				
194	2220	7.59	2.3			102	7000	14.48	2.6				
230	1860	6.38	2.7							123	5800	11.99	2.9
285	1510	5.15	3.0							145	4950	10.24	3.4
94													
108	3990	13.66	1.10	AR107 ARF107	4P	49	14500	30.00	0.90	AR147 ARF147	4P		
127	3390	11.59	1.25			61	11700	24.23	1.00				
145	2960	10.13	1.45			72	9890	20.47	1.20				
172	2500	8.56	1.70			82	8730	18.06	1.20				
187	2300	7.86	1.30			95	7570	15.66	1.70				
221	1950	6.66	1.50							106	6730	13.93	1.85
252	1700	5.82	1.78							123	5800	12.01	2.2
299	1440	4.92	2.0							152	4710	9.76	2.8



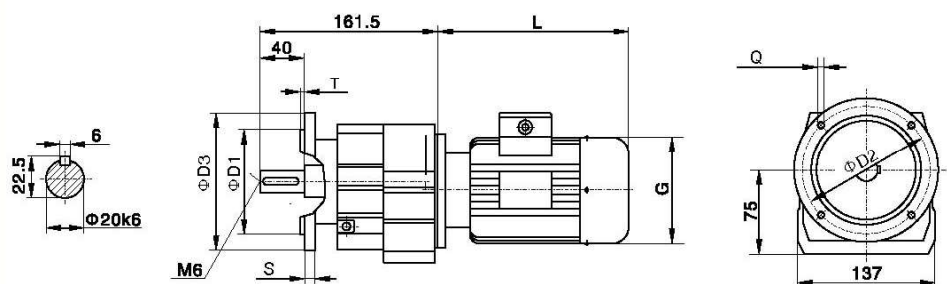
Output speed (r/min)	Output torque (N.M)	Ratio (i)	Service factor (fs)	Type	Motor pole
75KW					
179	4000	8.28	3.2	AR147 ARF147	4P
204	3510	7.25	2.5		
251	2850	5.89	3.0		
296	2420	5.00	3.6		
90KW					
37	23200	39.92	0.80	AR167 ARF167	4P
43	20000	34.41	0.90		
53	16200	27.96	1.10		
62	13800	23.71	1.30		
60	14300	24.57	1.00		
68	12700	21.85	1.00		
78	11100	19.03	1.45		
87	9860	16.98	1.50		
102	8410	14.48	2.1		
123	3630	11.99	2.4		
145	5940	10.24	2.9		
72	11900	20.47	1.00	AR147 ARF147	4P
82	10500	18.06	1.00		
95	9080	15.66	1.45		
106	8080	13.93	1.55		
123	6960	12.01	1.85		
152	5660	9.76	2.3		
179	4800	8.28	2.7		
204	4210	7.25	2.1		
251	3420	5.89	2.5		
296	2900	5.00	3.0		
110KW					
53	19800	27.96	0.90	AR167 ARF167	4P
63	16800	23.71	1.05		
78	13500	19.03	1.20		
87	12000	16.98	1.25		
103	10200	14.48	1.75		
124	8480	11.99	2.0		
145	7240	10.24	2.3		
130KW					
63	20100	23.71	0.90	AR167 ARF167	4P
78	16200	19.03	1.00		
87	14400	16.98	1.05		
103	12300	14.48	1.45		
124	10200	11.99	1.65		
145	8690	10.24	1.95		
160KW					
103	14900	14.48	1.20	AR167 ARF167	4P
124	12300	11.99	1.40		
145	10500	10.24	1.60		



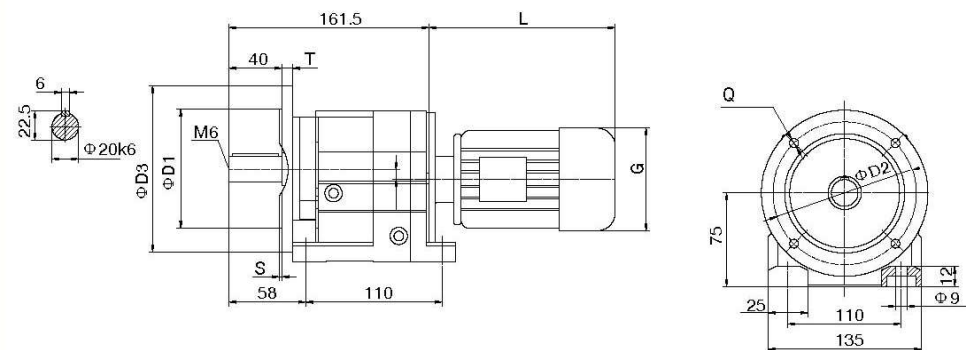
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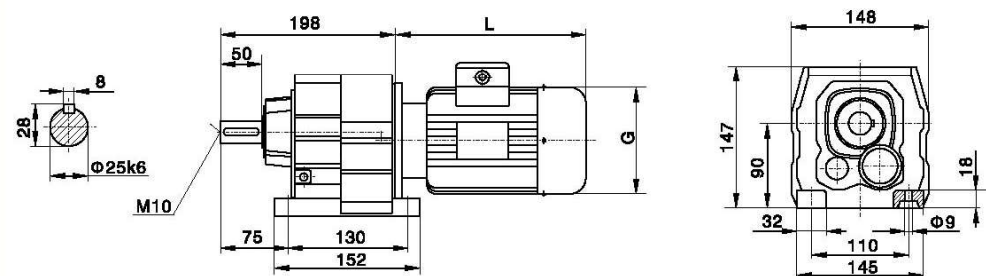
AR17



ARF17



AR-F17



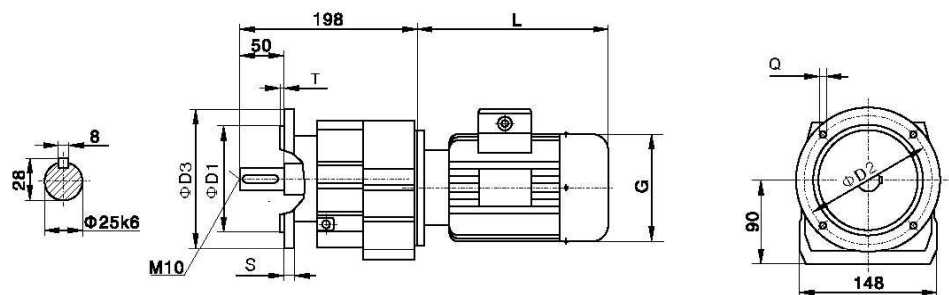
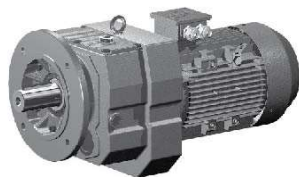
AR27



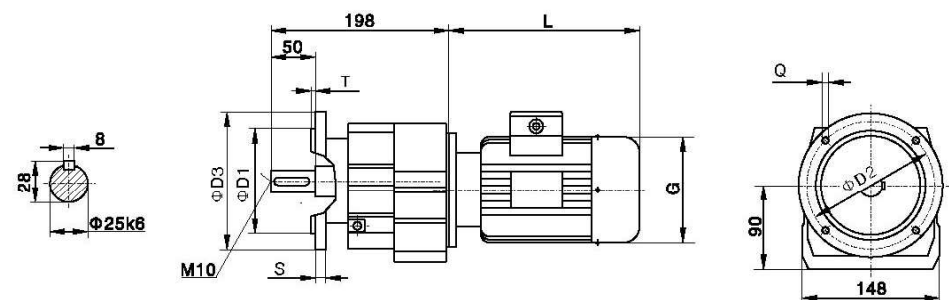
AR17	D1	D2	D3	Q	S	T
F120	80J6	100	120	4- $\Phi 6.5$	8	3
F160	110J6	130	160	4- $\Phi 9$	10	3.5



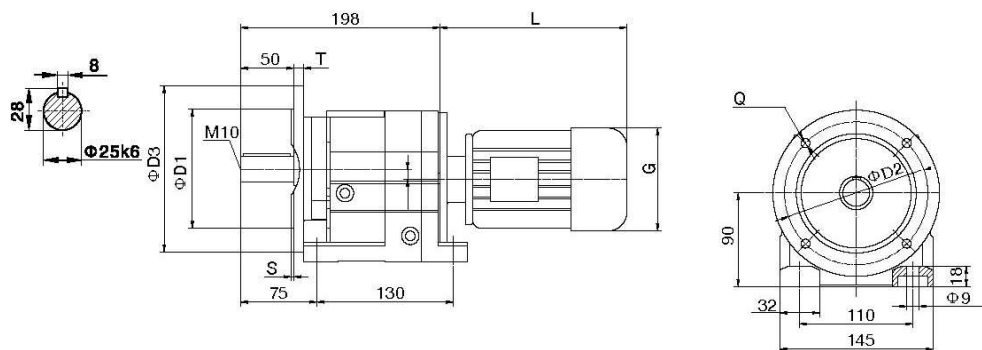
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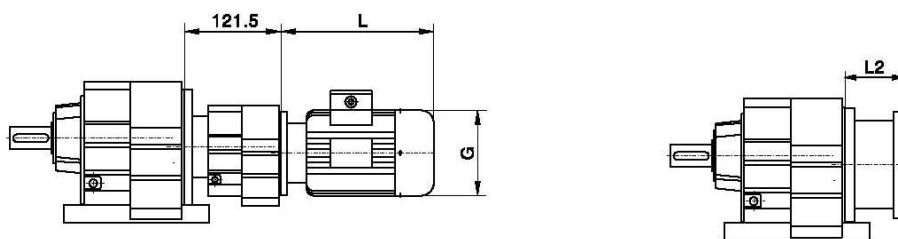
ARF27



AR-F27



AR..27AR17

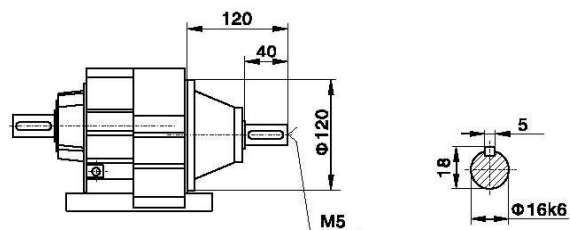


AR27	D1	D2	D3	Q	S	T
F120	80J6	100	120	4-Φ6.5	8	3
F140	95J6	115	140	4-Φ8.5	9	3
F160	110J6	130	160	4-Φ8.5	10	3.5

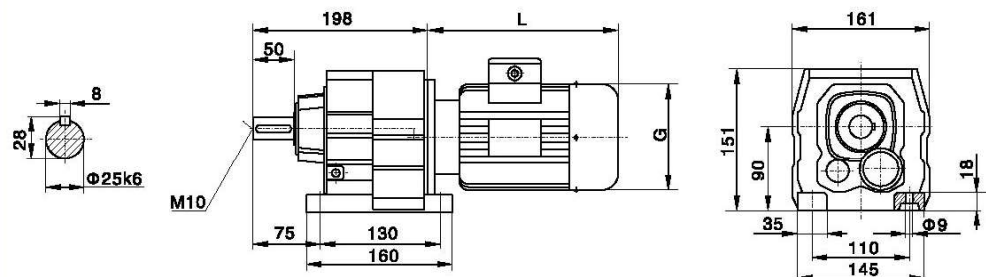


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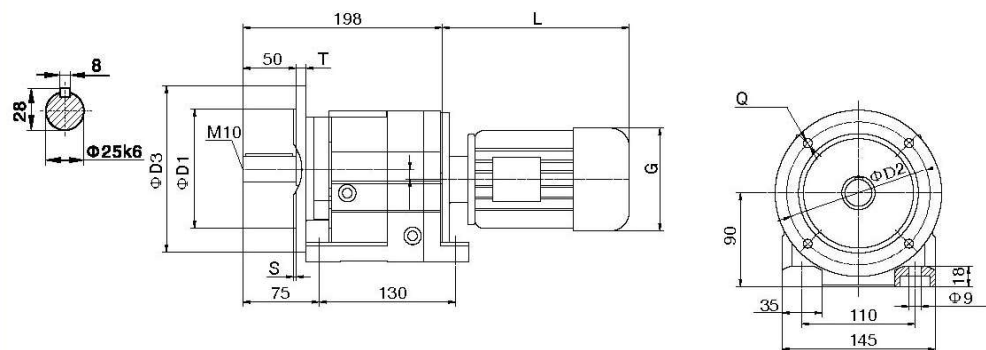
**AR..S17
AR..S27**



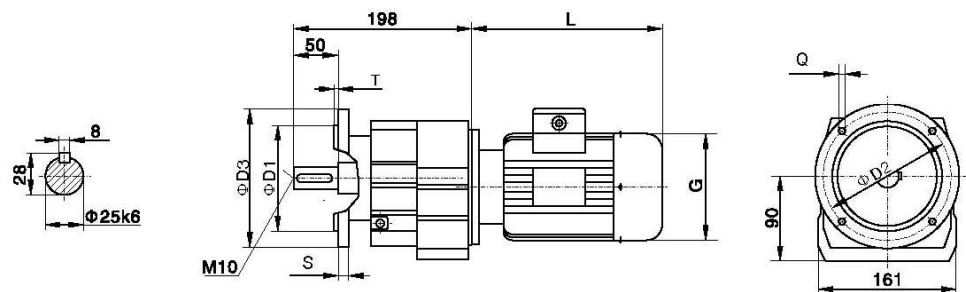
AR37



AR-F37



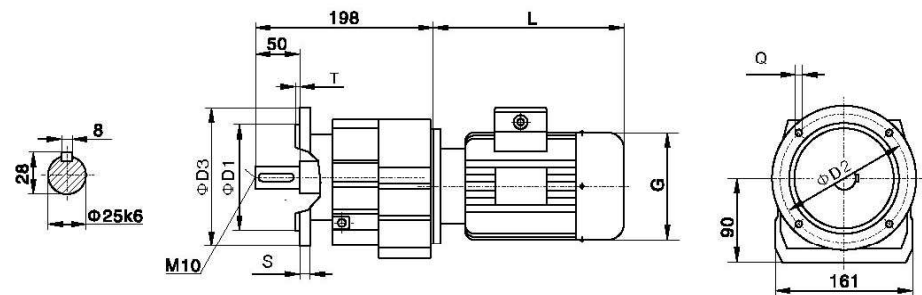
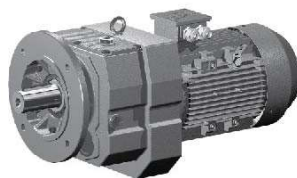
ARF37



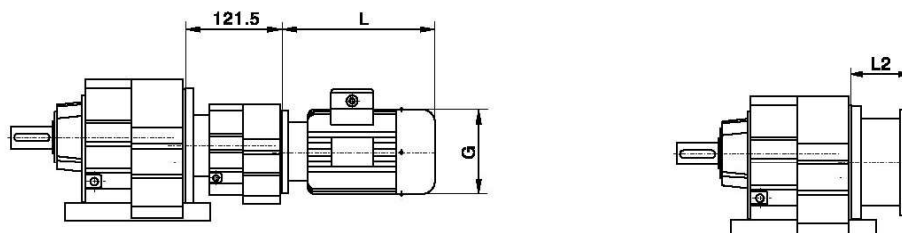
AR37	D1	D2	D3	Q	S	T
F120	80J6	100	120	4- $\Phi 6.5$	8	3
F160	110J6	130	160	4- $\Phi 9$	10	3.5
F200	130J6	165	200	4- $\Phi 11$	12	3.5



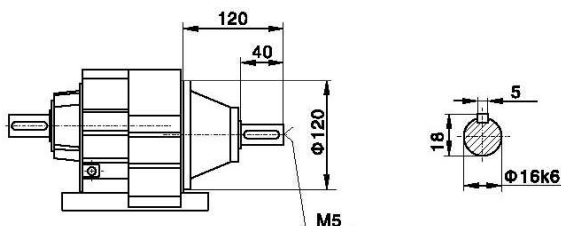
ARF37



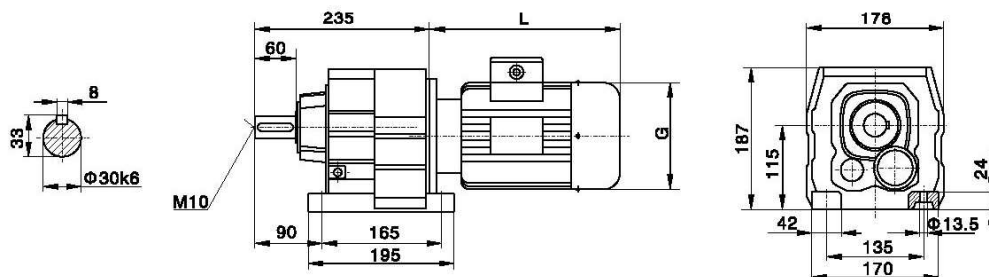
AR..37AR17



AR..S37



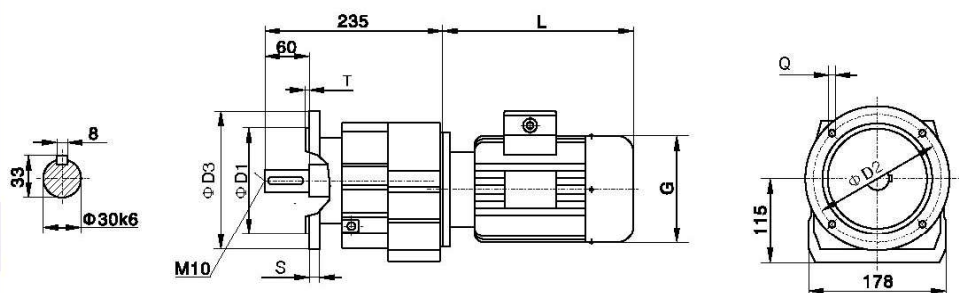
AR47



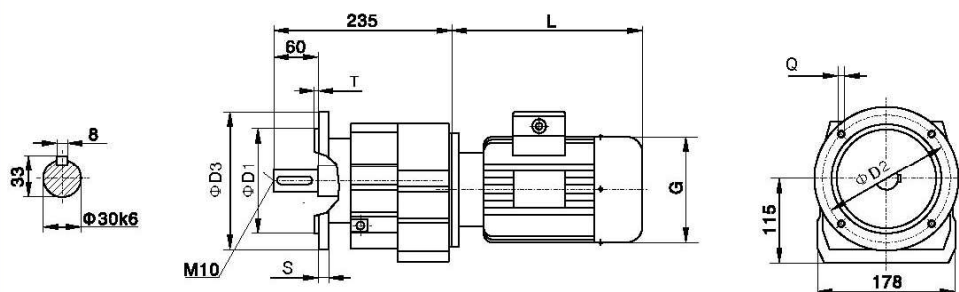


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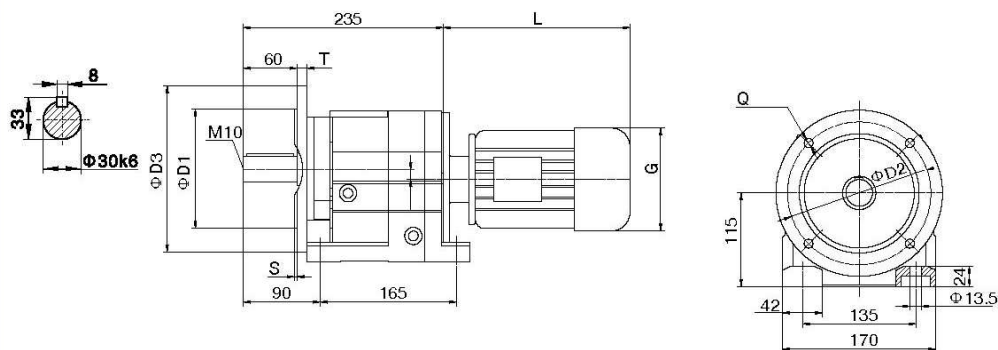
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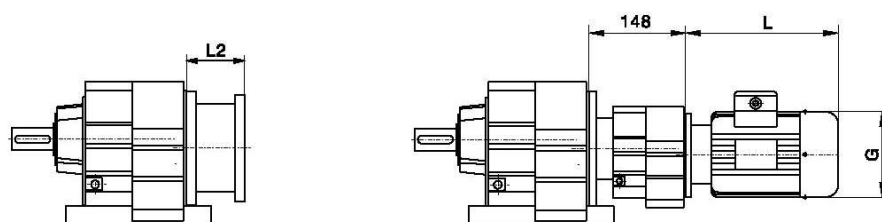
ARF47



AR-F47



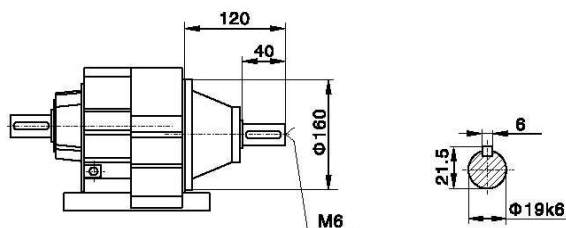
AR..47AR37



AR47	D1	D2	D3	Q	S	T
F140	95J6	115	140	4-Φ9	10	3
F160	110J6	130	160	4-Φ9	10	3.5
F200	130J6	165	200	4-Φ11	12	3.5

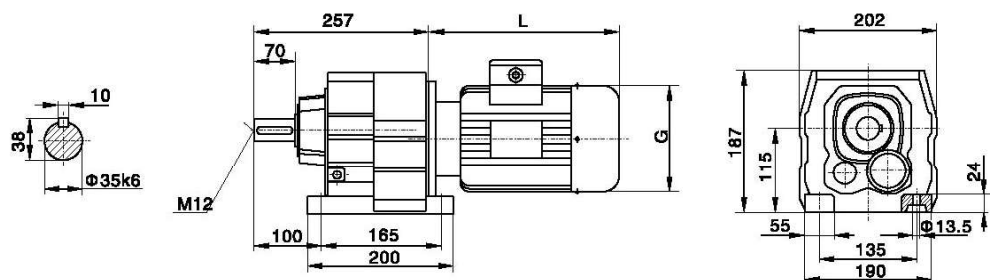


AR..S47

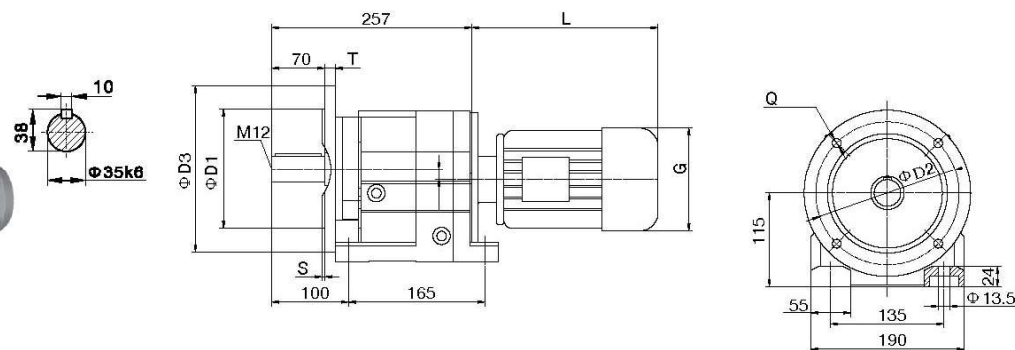


AR

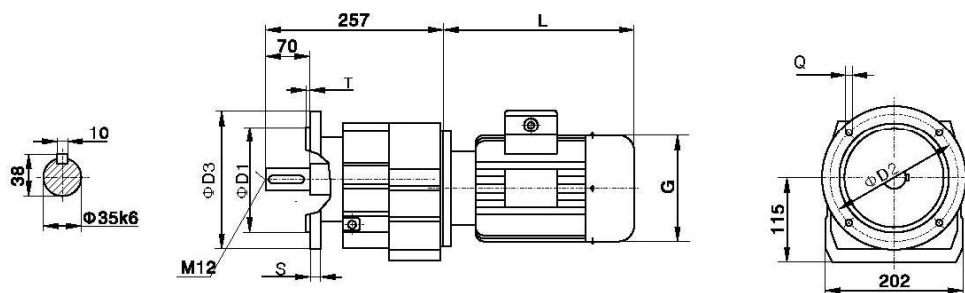
AR57



AR-F57



ARF57

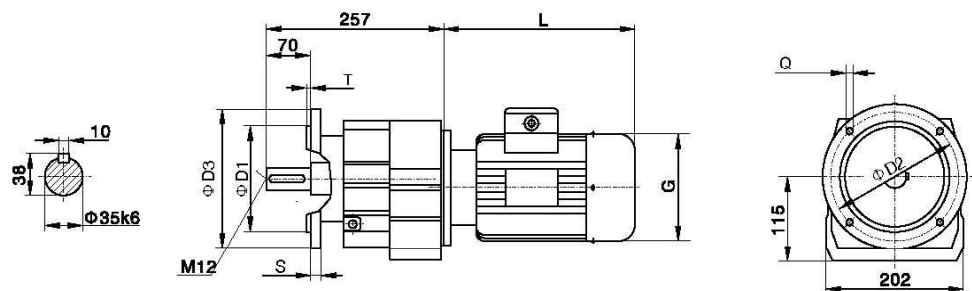


AR57	D1	D2	D3	Q	S	T
F160	110j6	130	160	4- $\Phi 9$	10	3.5
F200	130j6	165	200	4- $\Phi 11$	12	3.5
F250	180j6	215	250	4- $\Phi 13.5$	15	4

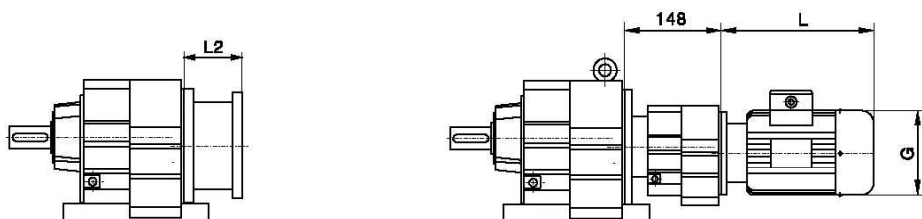


AR

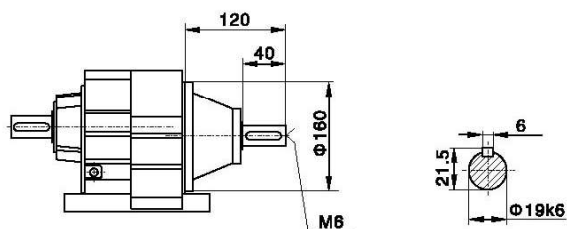
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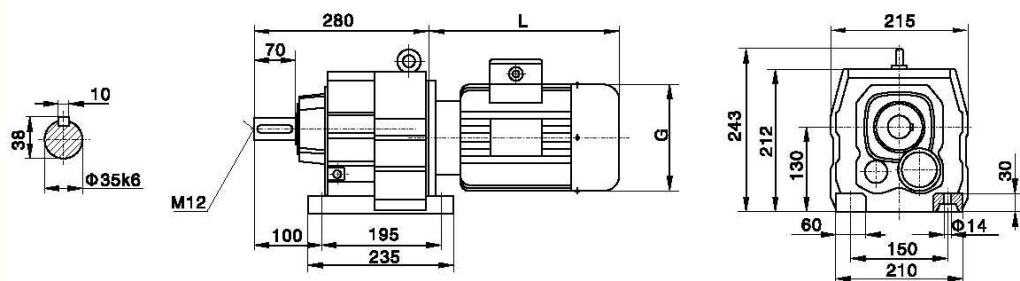
AR..57AR37



AR..S57

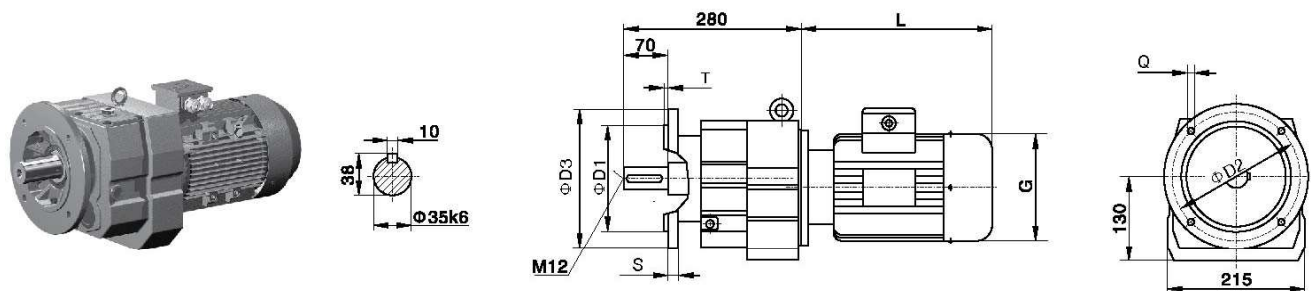


AR67

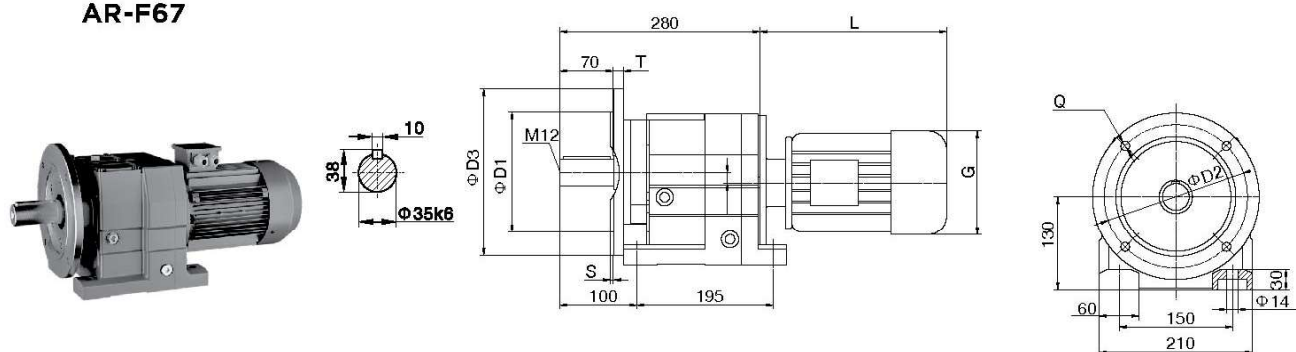




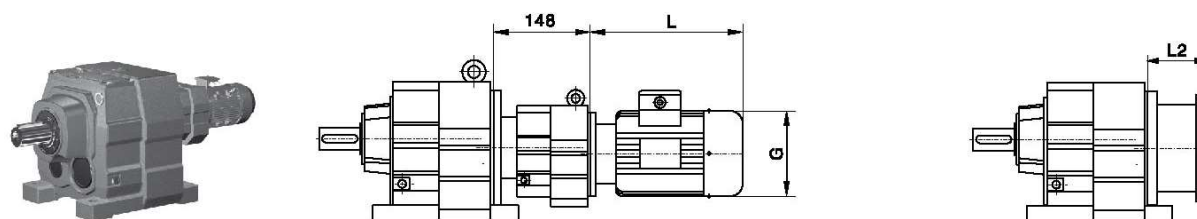
ARF67



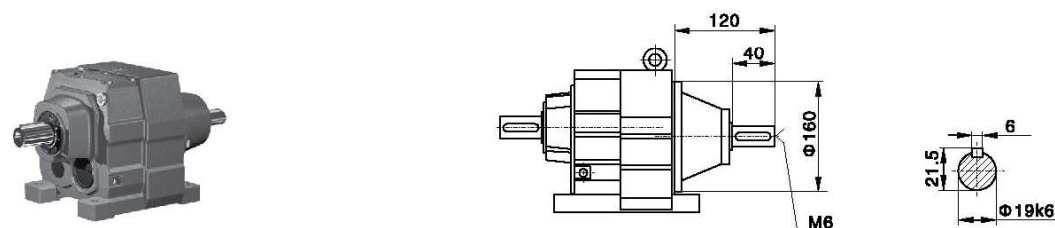
AR-F67



AR..67AR37



AR..S67

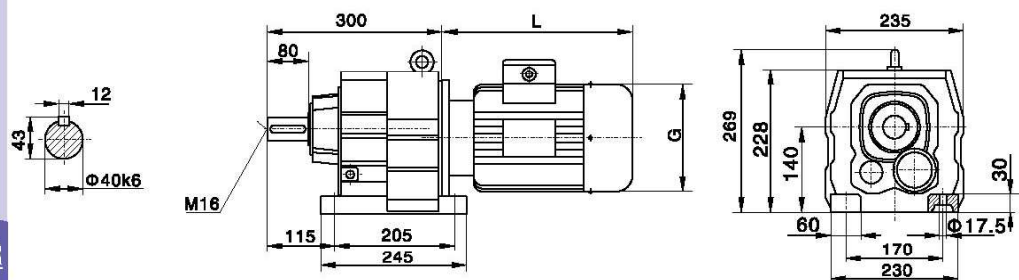


AR67	D1	D2	D3	Q	S	T
F200	130J6	165	200	4-Φ11	12	3.5
F250	180J6	215	250	4-Φ13.5	15	4

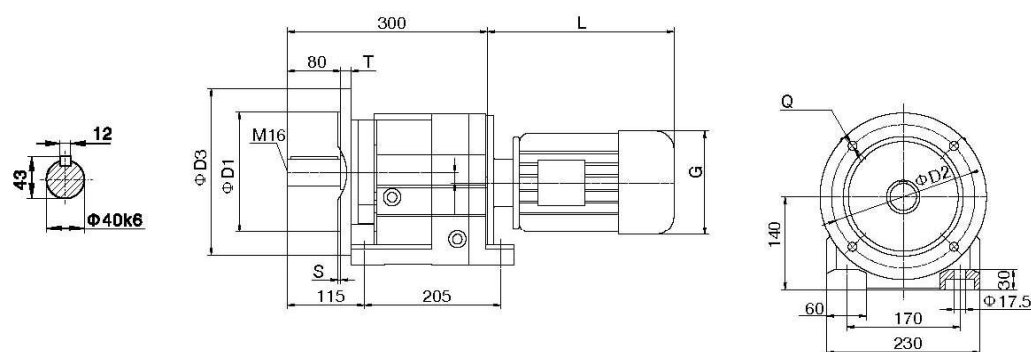


AR

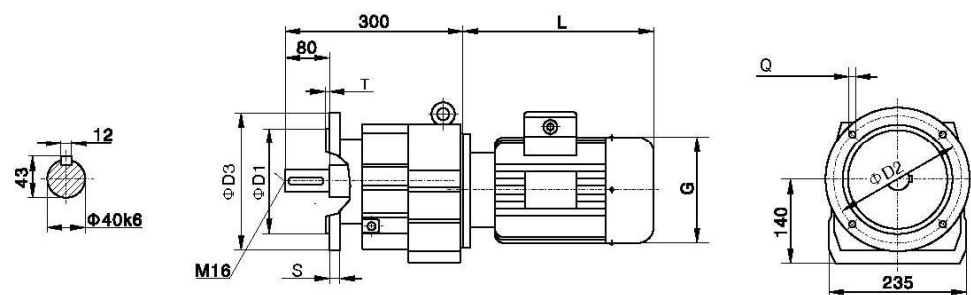
AR77



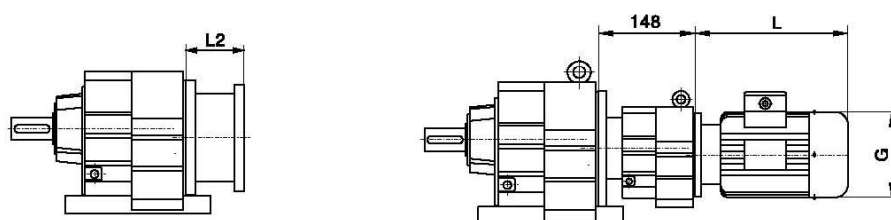
AR-F77



ARF77



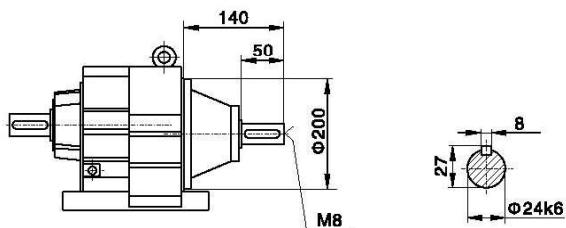
AR..77AR37



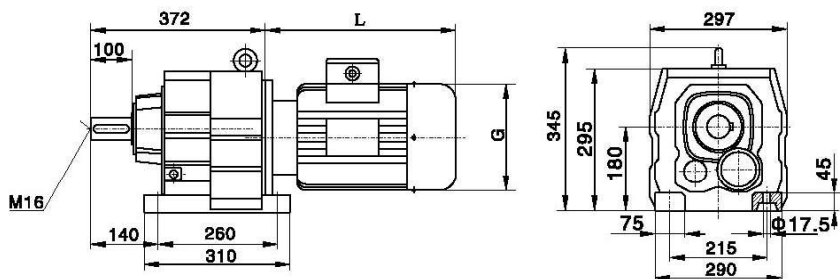
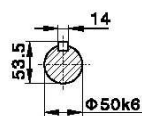
AR77	D1	D2	D3	Q	S	T
F250	180J6	215	250	4-Φ13.5	15	4
F300	230J6	265	300	4-Φ13.5	18.5	4



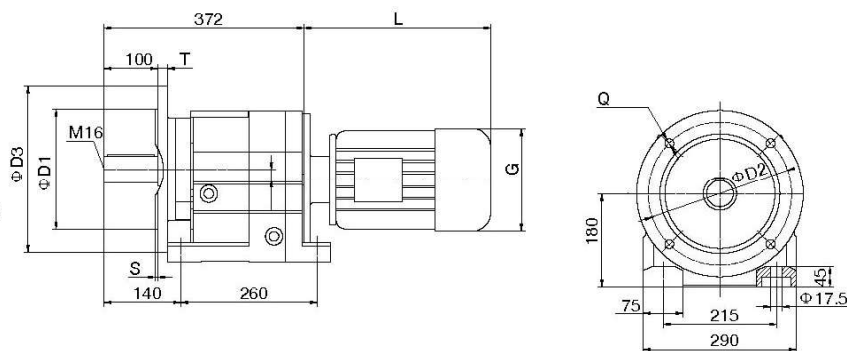
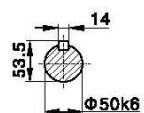
AR..S77



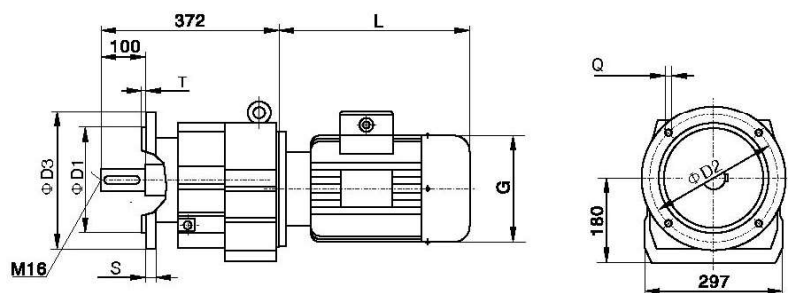
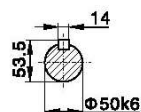
AR87



AR-F87



ARF87

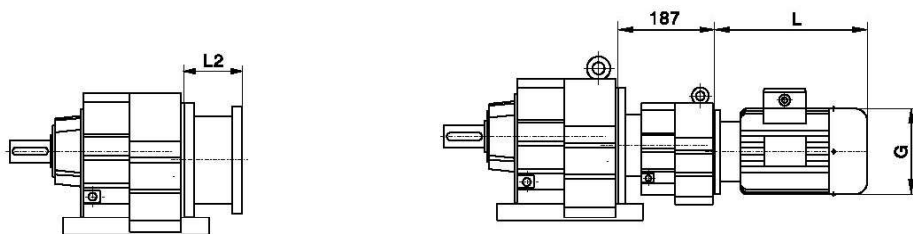


AR87	D1	D2	D3	Q	S	T
F300	230J6	265	300	4-Φ13.5	16	4
F350	250J6	300	350	4-Φ17.5	18	5

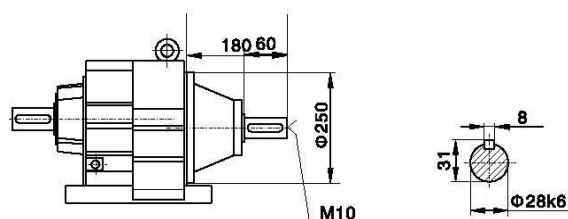


AR

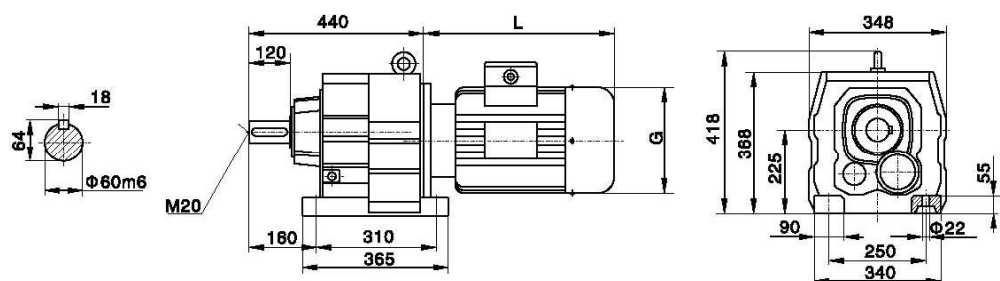
AR..87AR57



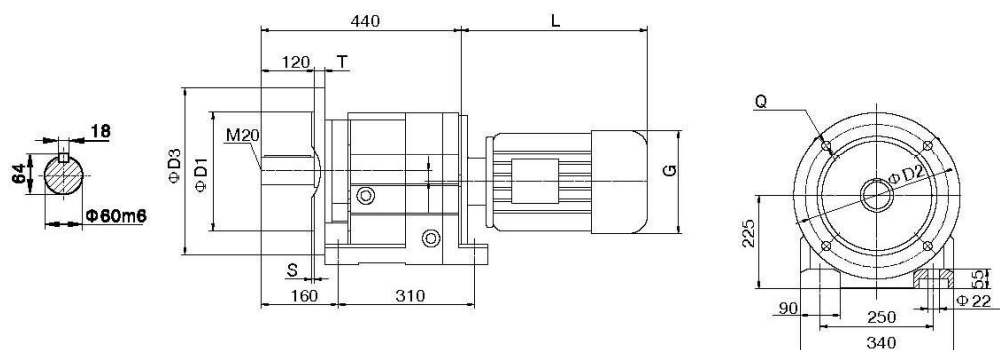
AR..S87



AR97



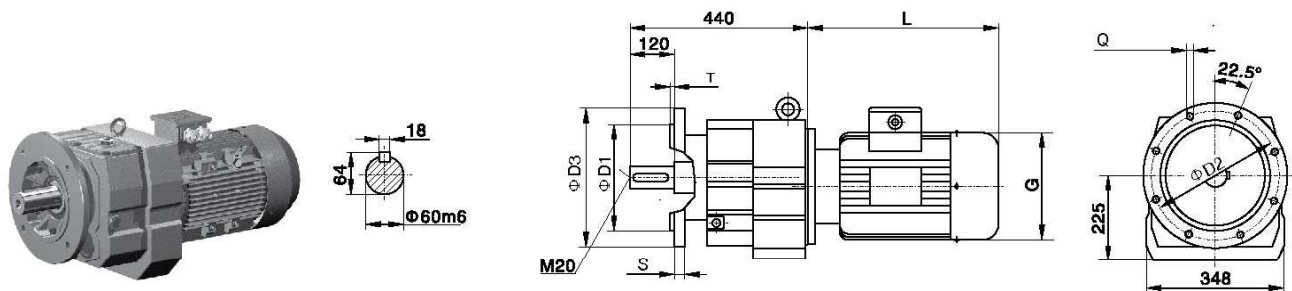
AR-F97



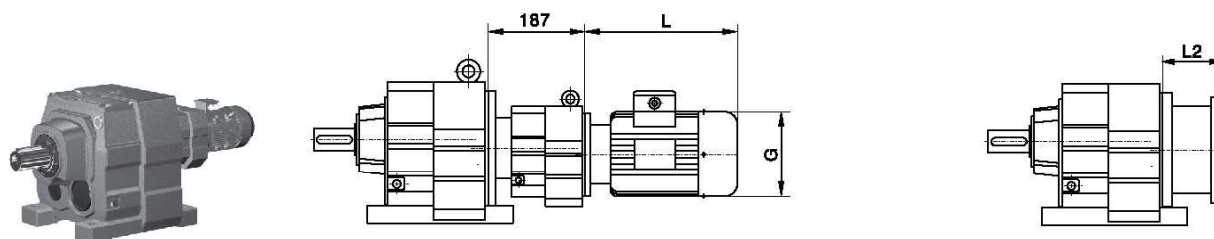
AR97	D1	D2	D3	Q	S	T
F350	250h6	300	350	4-Ø17.5	18	5
F450	350h6	400	450	8-Ø17.5	22	5



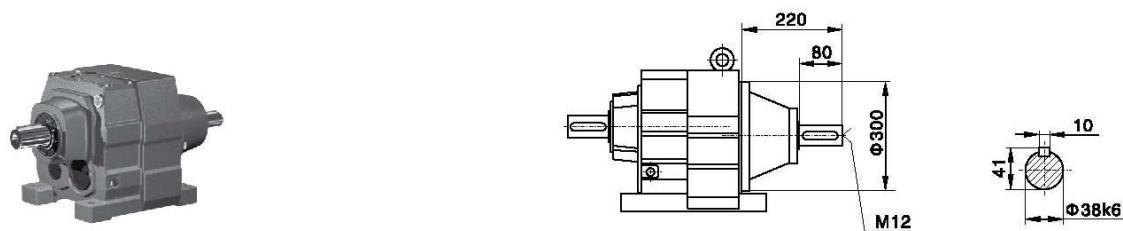
ARF97



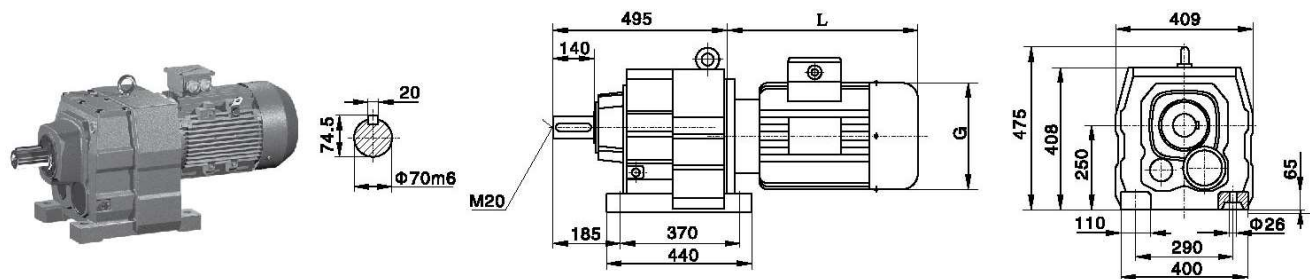
AR..97AR57

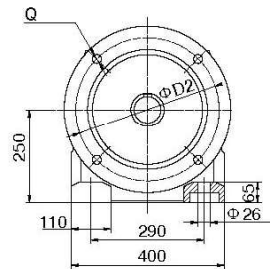
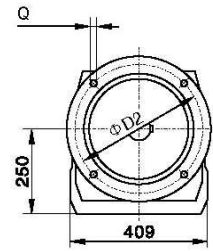


AR..S97



AR107

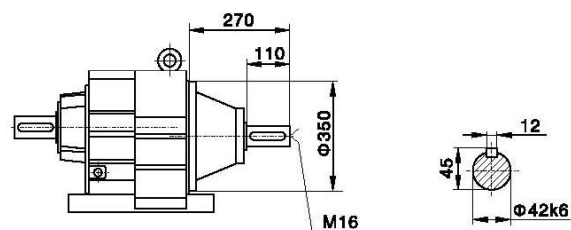


AR

AR..107AR77



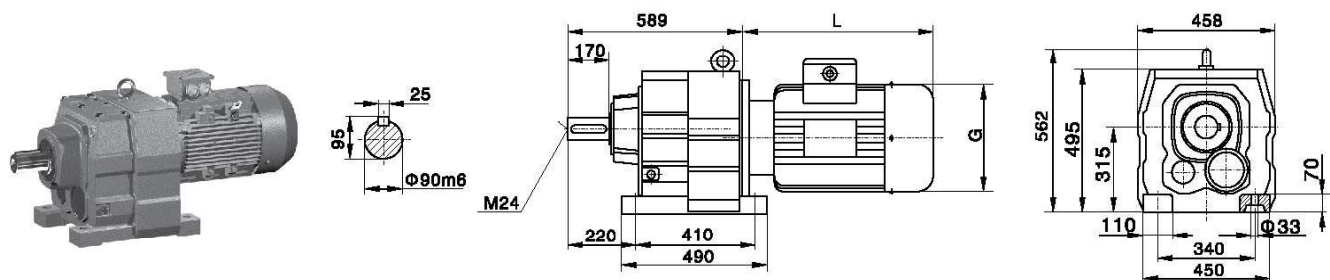
AR..S107



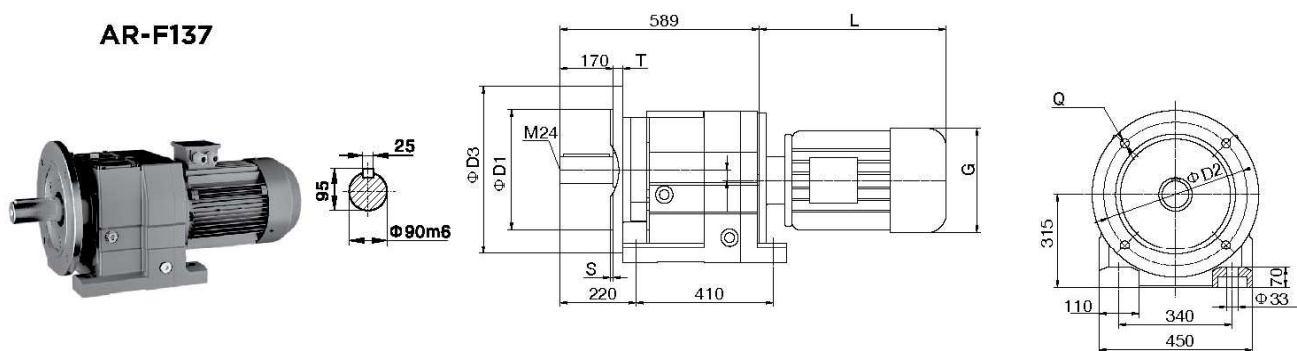
AR107	D1	D2	D3	Q	S	T
F350	250h6	300	350	4- Φ 17.5	20	5
F450	350h6	400	450	8- Φ 17.5	22	5



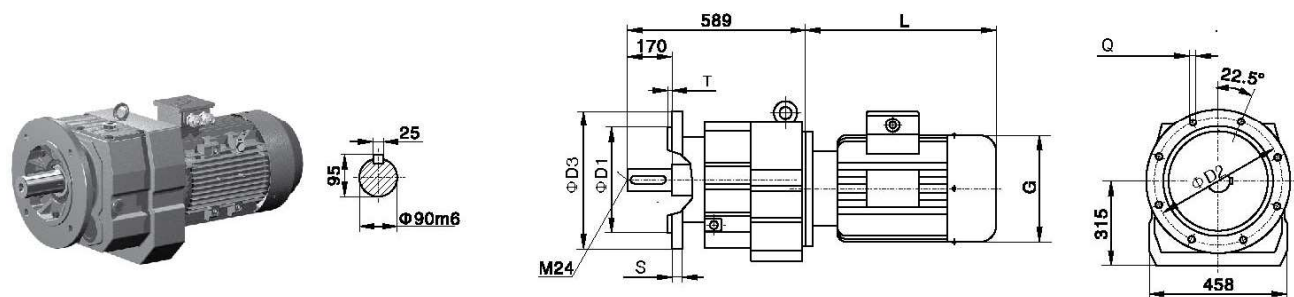
AR137



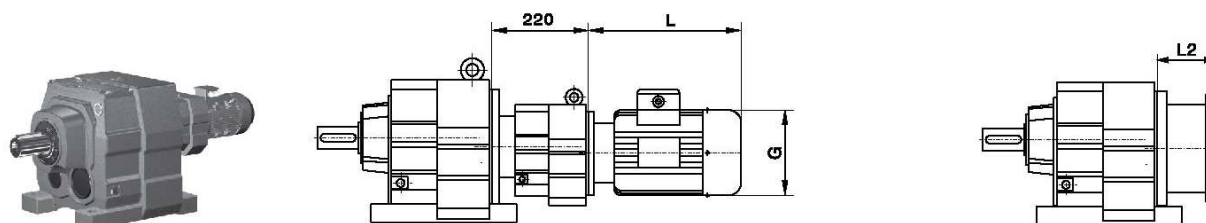
AR-F137



ARF137



AR..137AR77

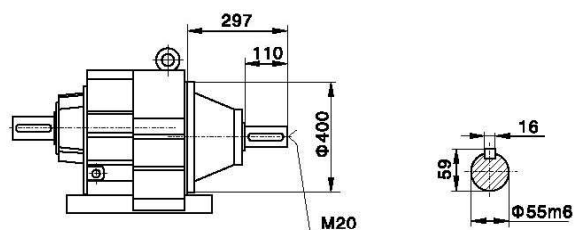


AR137	D1	D2	D3	Q	S	T
F450	350h6	400	450	8-Φ17.5	22	5
F550	450h6	500	550	8-Φ17.5	25	5

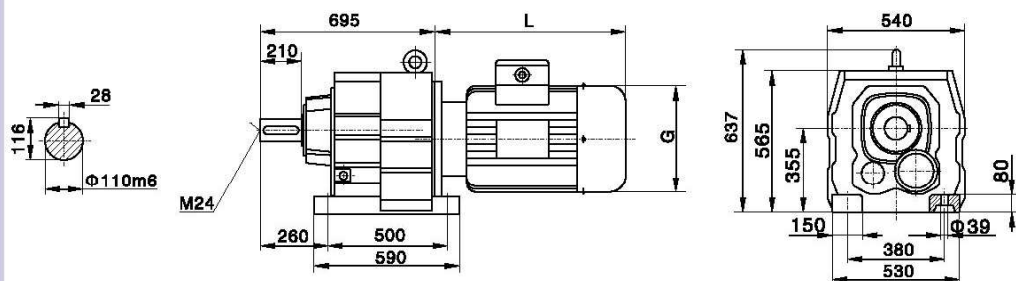


AR

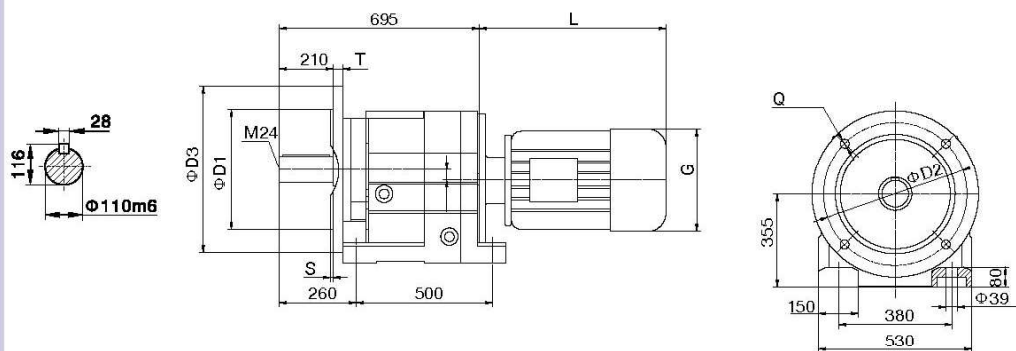
AR..S137



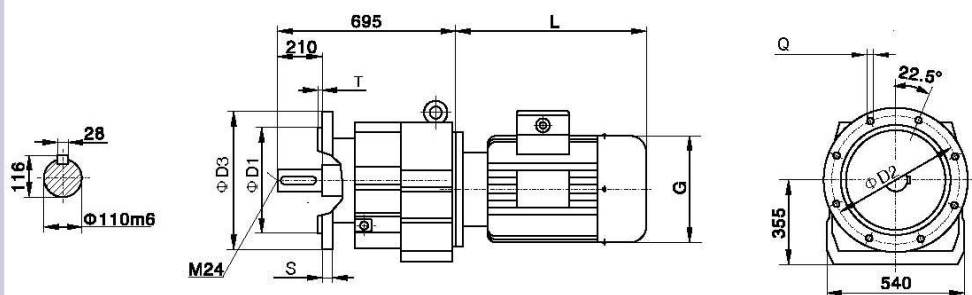
AR147



AR-F147



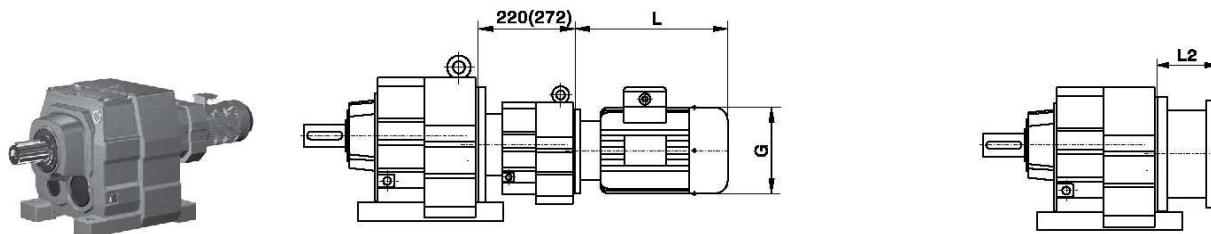
ARF147



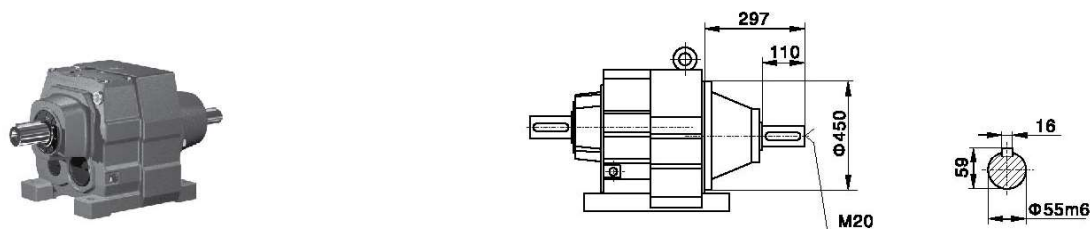
AR147	D1	D2	D3	Q	S	T
F450	350h6	400	450	8- $\Phi 17.5$	22	5
F550	450h6	500	550	8- $\Phi 17.5$	25	5



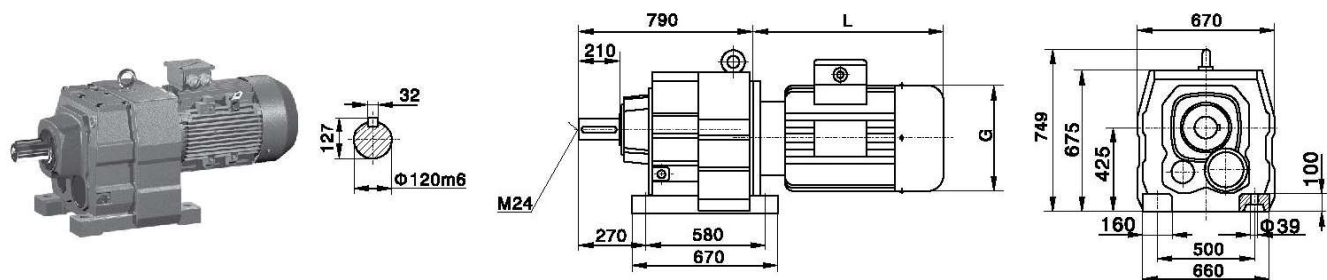
AR..147AR77(87)



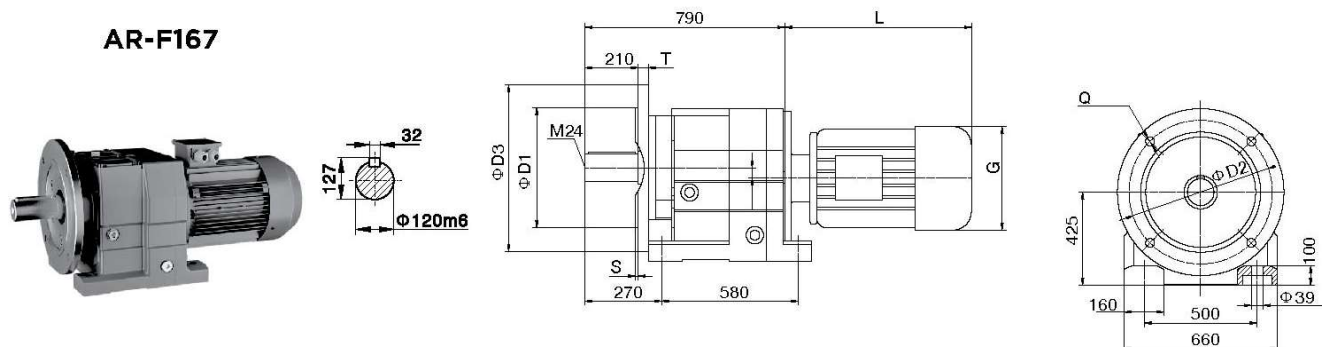
AR..S147



AR167



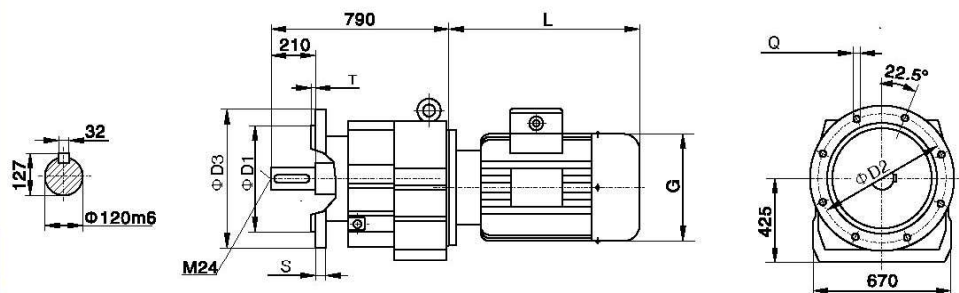
AR-F167



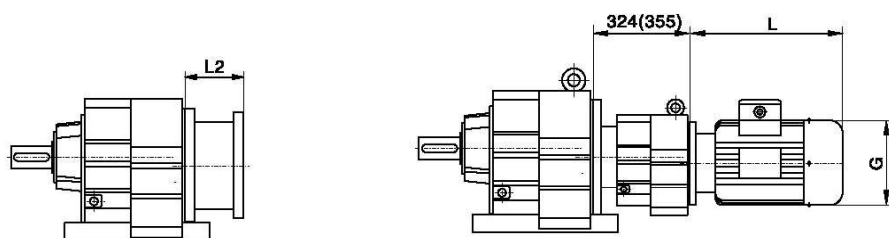
AR167	D1	D2	D3	Q	S	T
F550	450h6	500	550	8-Φ17.5	25	5
F660	550h6	600	660	8-Φ22	28	6



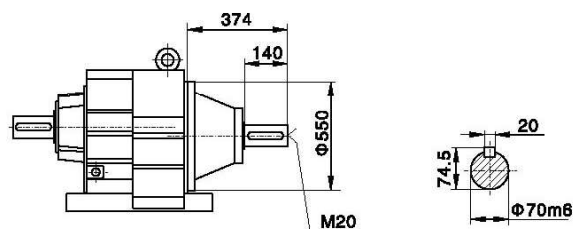
ARF167



AR..167AR97(107)

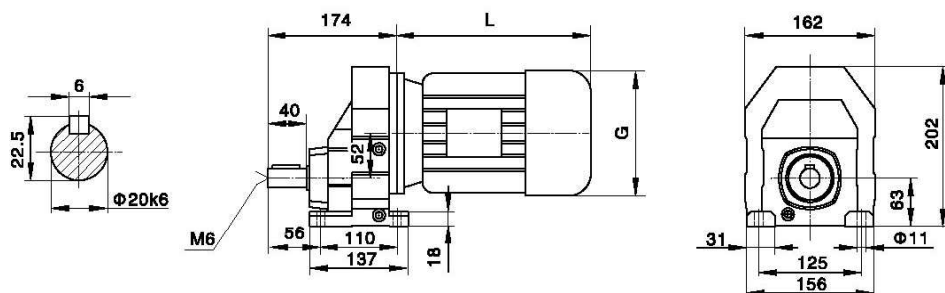


AR..S167



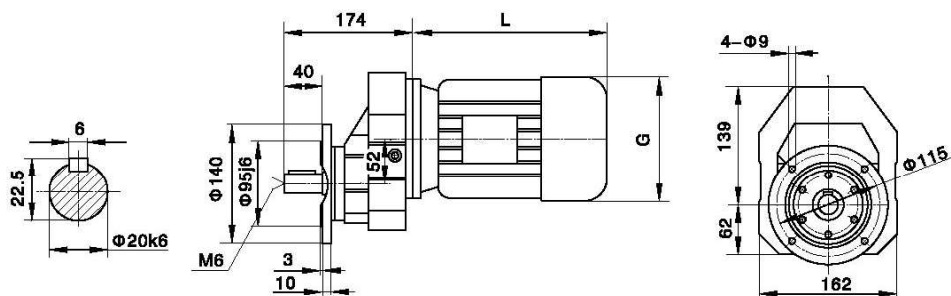


AR51



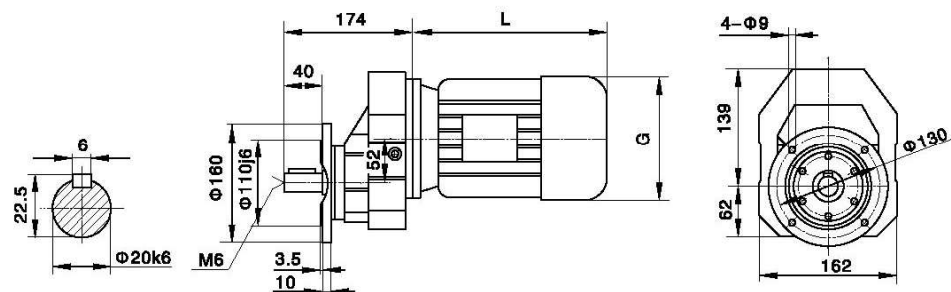
ARF51

($\Phi 140$)



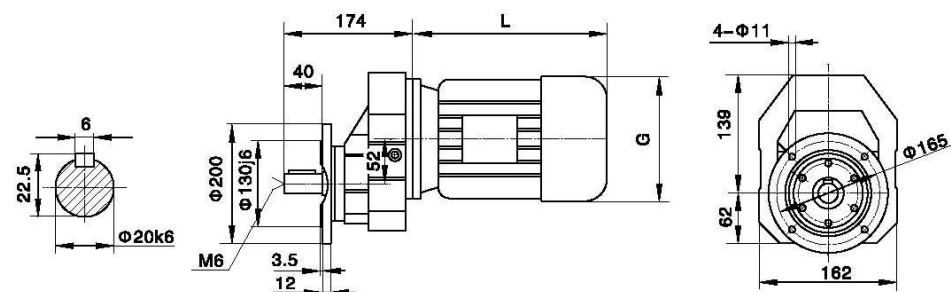
ARF51

($\Phi 160$)



ARF51

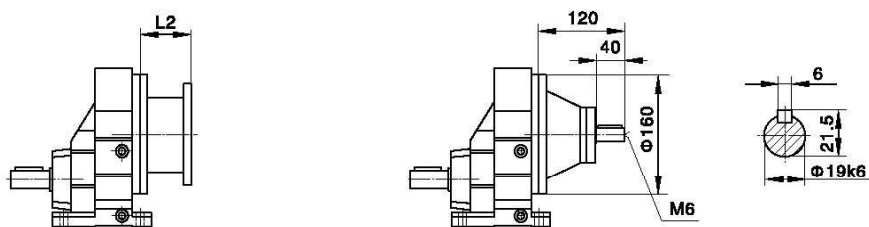
($\Phi 200$)



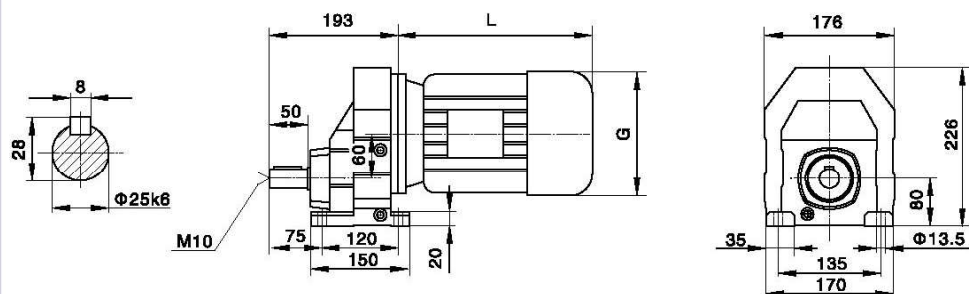


AR

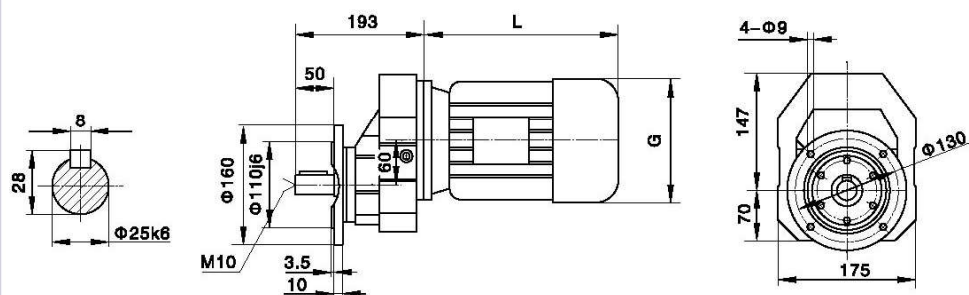
AR..S51



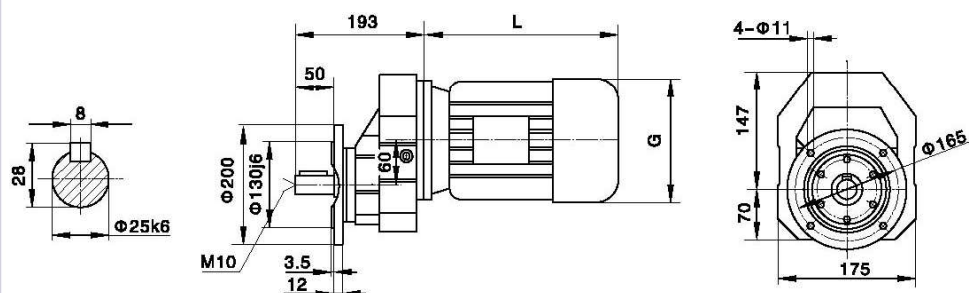
AR61



ARF61
($\Phi 160$)



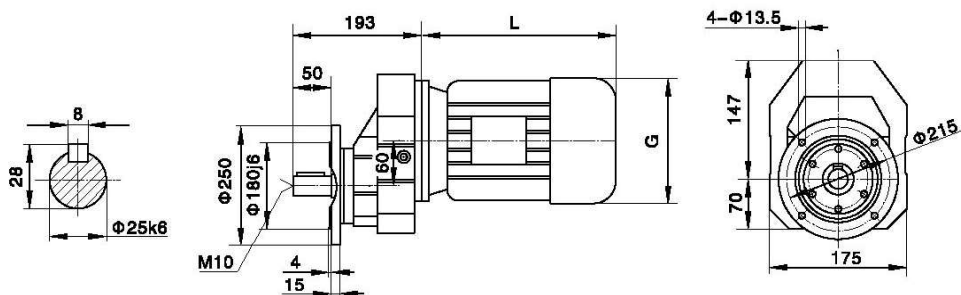
ARF61
($\Phi 200$)



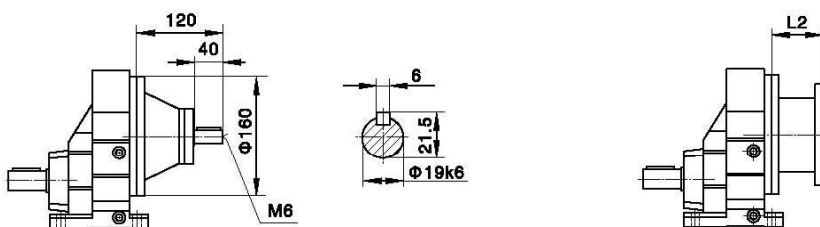


ARF61

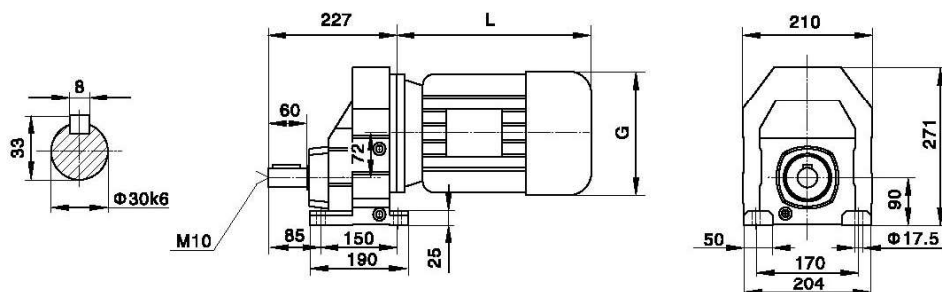
($\Phi 250$)



AR..S61

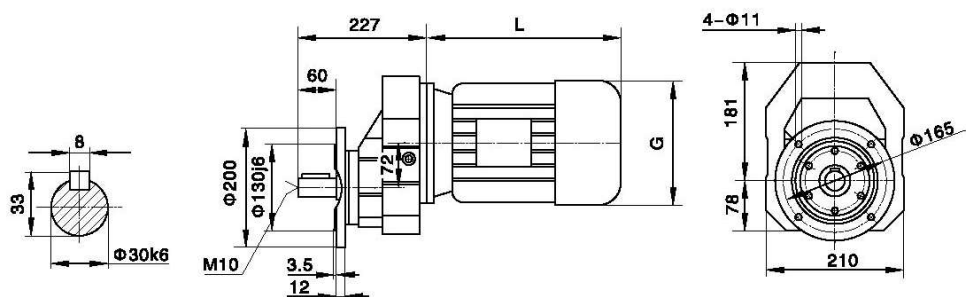


AR71



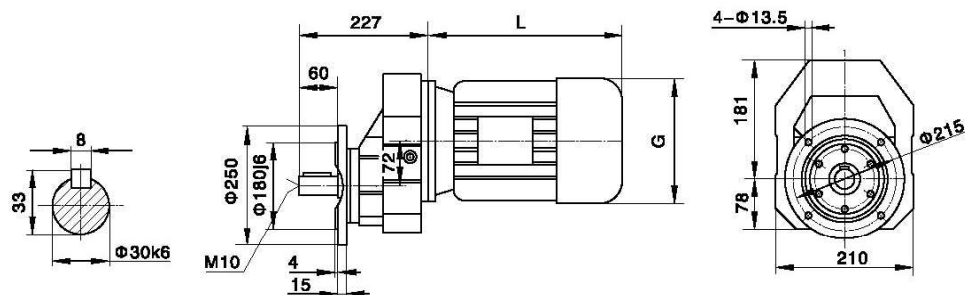
ARF71

($\Phi 200$)





AR

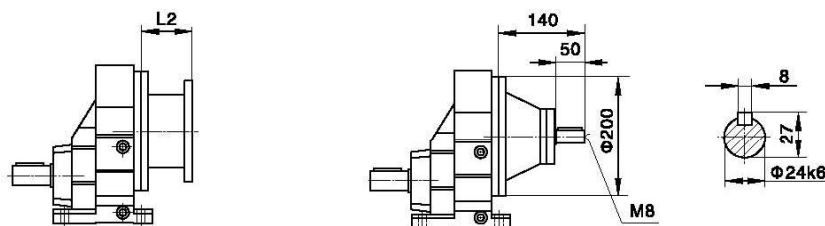


ARF71

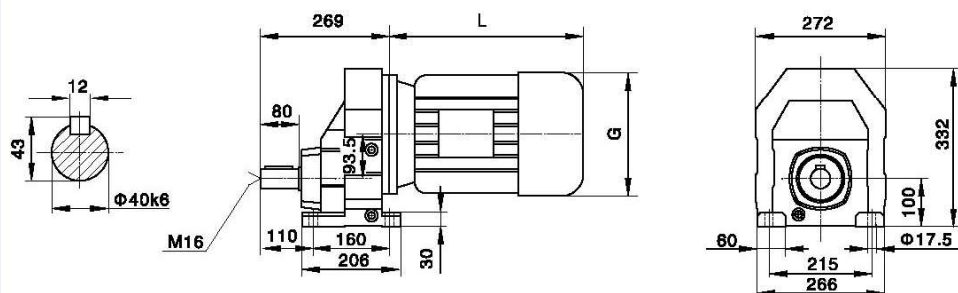
(Ø250)



AR..S71

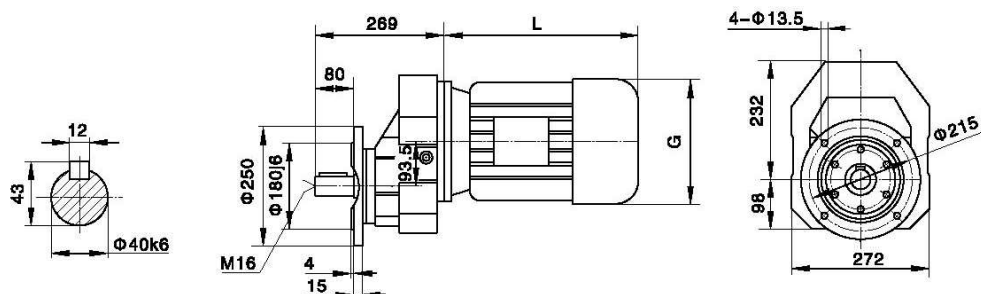


AR81



ARF81

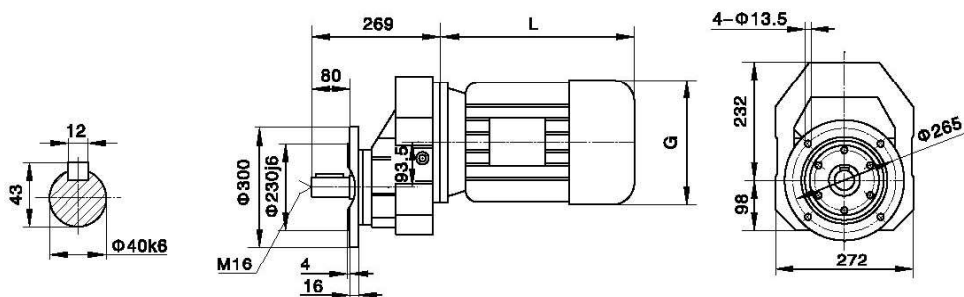
(Ø250)



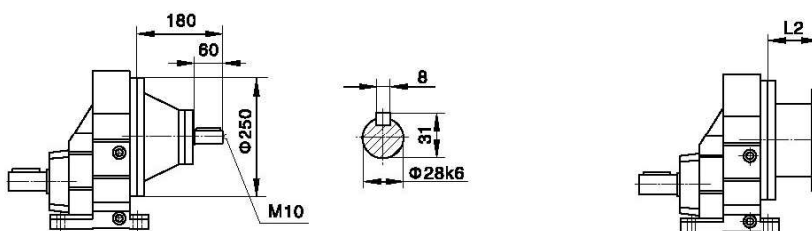


ARF81

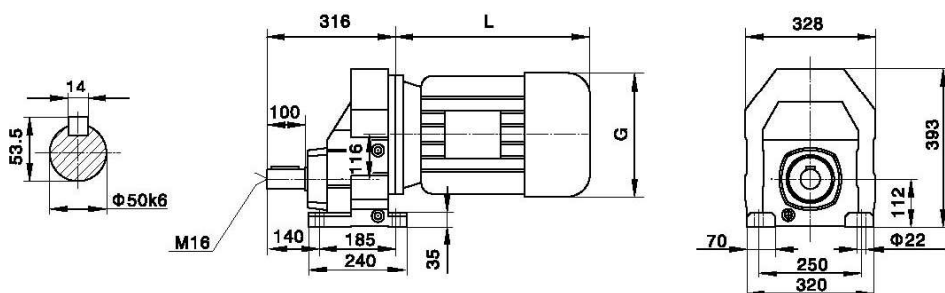
($\Phi 300$)



AR..S81

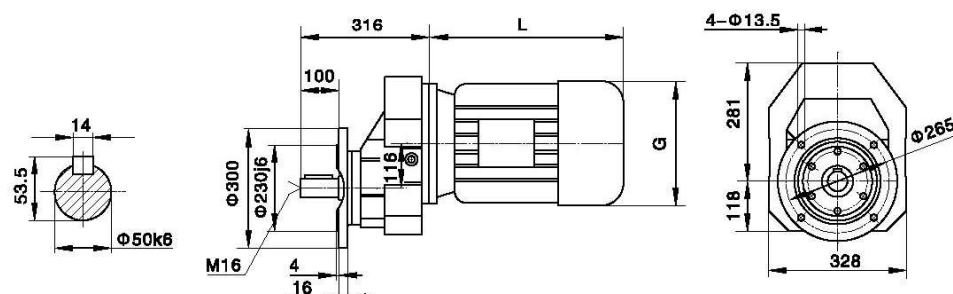


AR91



ARF91

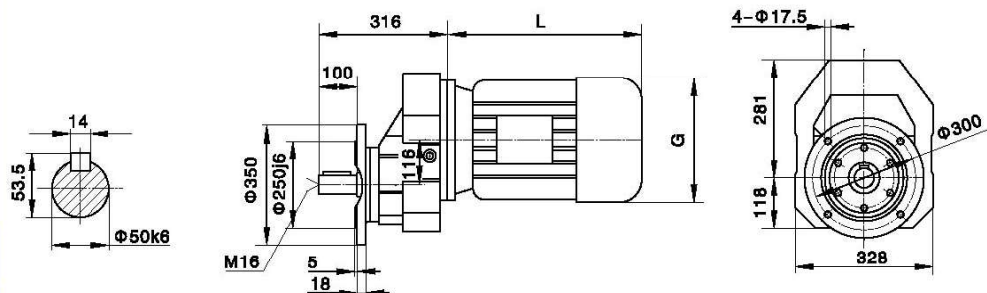
($\Phi 300$)



AR



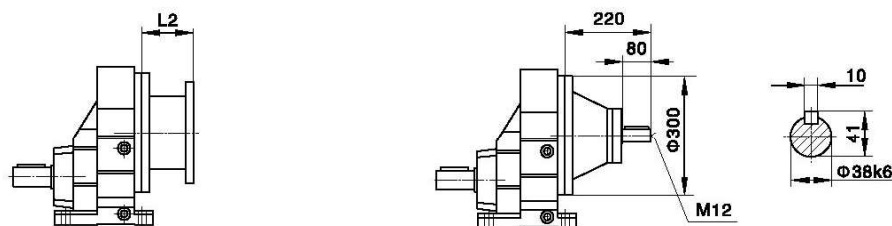
AR



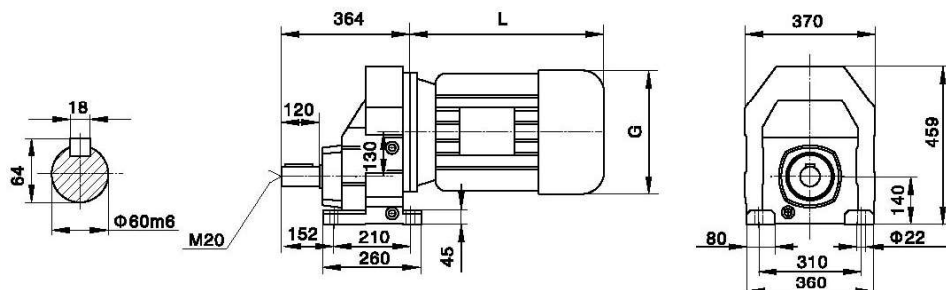
ARF91
($\Phi 350$)



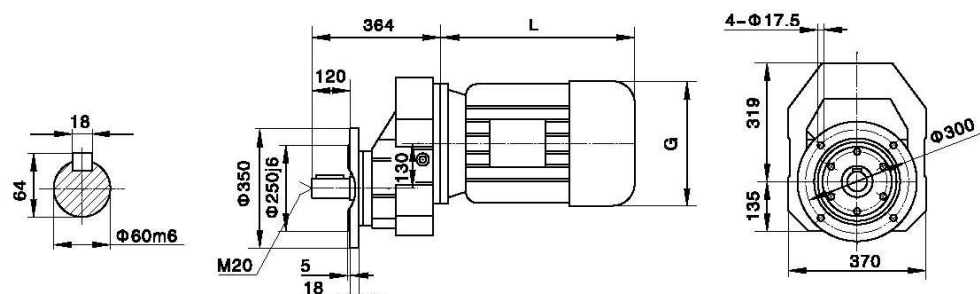
AR..S91



AR101



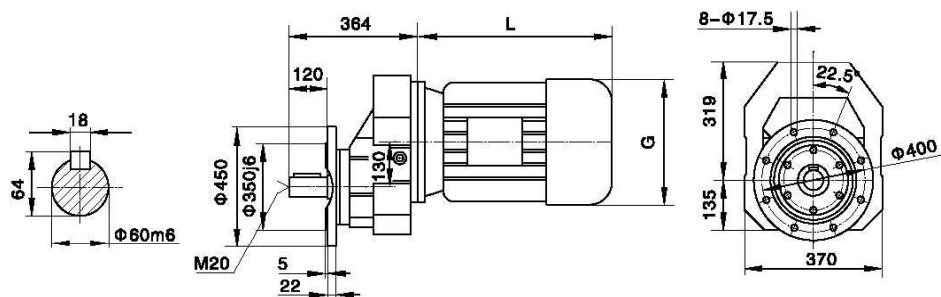
ARF101
($\Phi 350$)



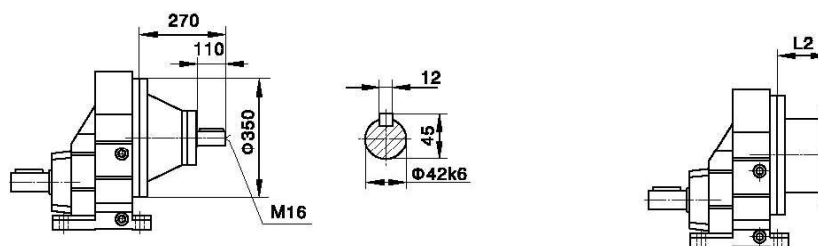


ARF101

($\Phi 450$)



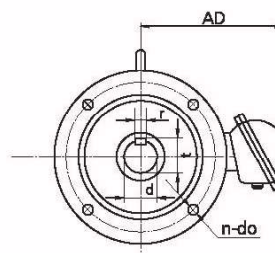
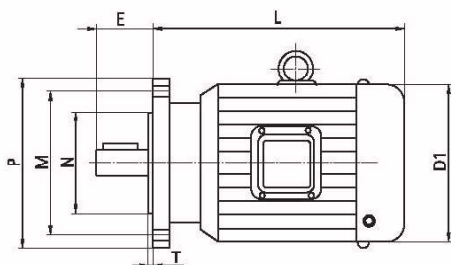
AR..S101



AR



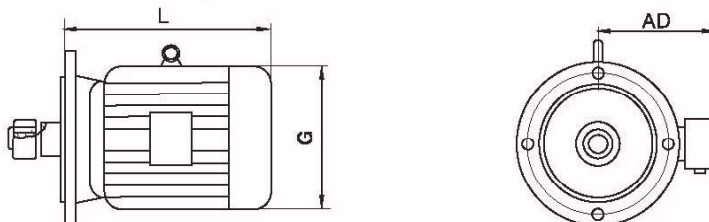
Appearance and Installation Size of Standard Electric Motor (B5)



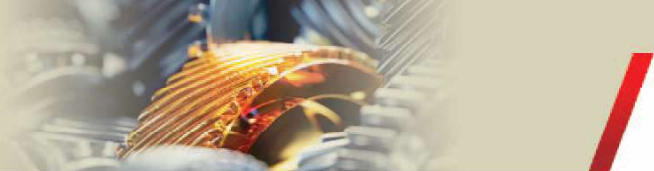
Motor	Motor power and poles			Size															
Frame	4P	6P	8P	M	N (JS6)	P	T	n-do	d		E		r		t		D1	AD	L
56	0.09 0.12			100	80	120	3	4 × 9	9j6		20		3		11.2		115	90	190
63	0.12 0.18			115	95	140	3	4 × 10	11j6		23		4		12.5		130	70	217
71	0.25 0.37	0.18 0.25		130	110	160	3.5	4 × 10	14j6		30		5		16		145	80	225
80	0.55 0.75	0.37 0.55	0.18 0.25	165	130	200	3.5	4 × 10	19j6		40		6		21.5		165	150	225
90S	1.1	0.75	0.37	165	130	200	3.5	4 × 10	24j6		50		8		27		175	155	270
90L	1.5	1.1	0.55	165	130	200	3.5	4 × 10	24j6		50		8		27		175	155	295
100L1	2.2	1.5	0.75	215	180	250	4	4 × 15	28j6		60		8		31		215	180	325
100L2	3.0		1.1	215	180	250	4	4 × 15	28j6		60		8		31		215	180	325
112M	4.0	2.2	1.5	215	180	250	4	4 × 15	28j6		60		8		31		240	190	345
132S	5.5	3.0	2.2	265	230	300	4	4 × 15	38K6		80		10		41		275	210	390
132M	7.5	4.0 5.5	3.0	265	230	300	4	4 × 15	38K6		80		10		41		275	210	410
160M	11	7.5	4.0 5.5	300	250	350	5	4 × 19	42K6		110		12		46		330	255	505
160L	15	11	7.5	300	250	350	5	4 × 19	42K6		110		12		46		330	255	505
180M	18.5			300	250	350	5	4 × 19	48K6		110		14		51.5		380	280	590
180L	22	15	11	300	250	350	5	4 × 19	48K6		110		14		51.5		380	280	630
200L	30	18.5 22	15	350	300	400	5	4 × 19	55M6		110		16		59		420	305	660
225S	37		18.5	400	350	450	5	4 × 19	60m6		140		18		53		450	345	680
225M	45	30	22	400	350	450	5	8 × 19	55m6	60m6	110	140	16	18	60	65	450	345	705
250M	55	37	30	500	450	550	5	8 × 19	60m6	65m6	140		18	18	65	70	510	370	770
280S	75	45	37	500	450	550	5	8 × 19	65m6	75m6	140		18	20	70	80	580	410	845
280M	90	55	45	500	450	550	5	8 × 19	65m6	75m6	140		18	20	70	80	580	410	895
315S	110	75		600	550	660	6	8 × 24	65m6	80m6	140	170	18	22	70	87	645	530	1020 1130
315M	132	90		600	550	660	6	8 × 24	65m6	80m6	140	170	18	22	70	87	645	530	1050 1160



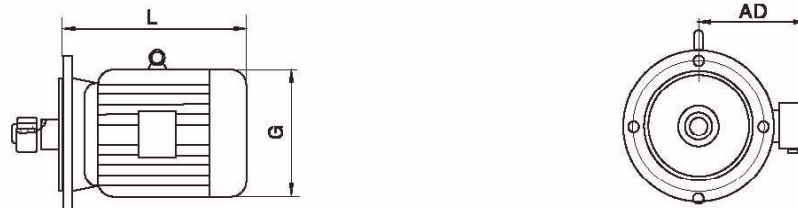
Appearance and Dimension of Direct Input Electric Motor for Helical Gearbox



Motor Baseframe Type	Motor power and poles			Models of Speed Reducers	Size(mm)		
	4P	6P	8P		L	G	AD
AGM71	0.25 0.37	0.18 0.25		AR(51, 61) AR(17, 27, 37, 47, 57, 67) AF(37, 47, 57, 67) AK(37, 47, 57, 67) AS(37, 47, 57, 67)	245	145	80
				AR..71, AR77, AF7, AK77, AS77	233		
AGM80	0.55 0.75	0.37 0.55	0.18 0.25	AR(51, 61, 71) AR(17, 27, 37, 47, 57, 67, 77) AF(37, 47, 57, 67, 77) AK(37, 47, 57, 67, 77) AS(37, 47, 57, 67, 77)	278	165	150
				AR(81, 91) AR(87, 97) AF87 AK87 AS(87, 97)	246		
AGM90S	1.1	0.75	0.37	AR(51, 61, 71) AR(27, 37, 47, 57, 67, 77) AF(37, 47, 57, 67, 77) AK(37, 47, 57, 67, 77) AS(37, 47, 57, 67, 77)	304	175	155
				AR(81, 91) AR(87, 97) AF(87, 97) AK(87, 97) AS(87, 97)	280		
AGM90L	1.5	1.1	0.55	AR(51, 61, 71) AR(27, 37, 47, 57, 67, 77) AF(37, 47, 57, 67, 77) AK(37, 47, 57, 67, 77) AS(37, 47, 57, 67, 77)	328	175	155
				AR(81, 91) AR(87, 97) AF(87, 97) AK(87, 97) AS(87, 97)	304		
AGM100	2.2 3	1.5	0.75 1.1	AR27, AR37, AF37, AF47, AK37, AS47, AS57	340	215	180
				AR(51, 61, 71, 81) AR(47, 57, 67, 77, 87) AF(57, 67, 77, 87) AK(47, 57, 67, 77, 87) AS(67, 77, 87)	350		
				AR91, AR97, AF97, AK97, AS97	315		
				AR101, AR107, AF107, AK107	318		
AGM112	4	2.2	1.5	AR(51, 61, 71, 81) AR(47, 57, 67, 77, 87) AF(57, 67, 77, 87) AK(57, 67, 77, 87) AS(67, 77, 87)	380	240	190
				AR(81, 101) AR(97, 107) AF(97, 107) AK(97, 107) AS97	334		
AGM132S	5.5	3	2.2	AR(51, 61, 71, 81, 91) AR(47, 57, 67, 77, 87, 97) AF(67, 77, 87, 97) AK(67, 77, 87, 97) AS(67, 77, 87, 97)	425	275	210
				AR101, AR107, AF107, AK107	386		
				AR137	388		
AGM132M	7.5	4 5.5	3	AR(51, 61, 71, 81, 91) AR(47, 57, 67, 77, 87, 97) AF(67, 77, 87, 97, 107) AK(67, 77, 87, 97) AS(67, 77, 87, 97)	461	275	210
				AR101, AR107, AF107, AK107	422		
				AR137, AR147, AF127, AK127	424		

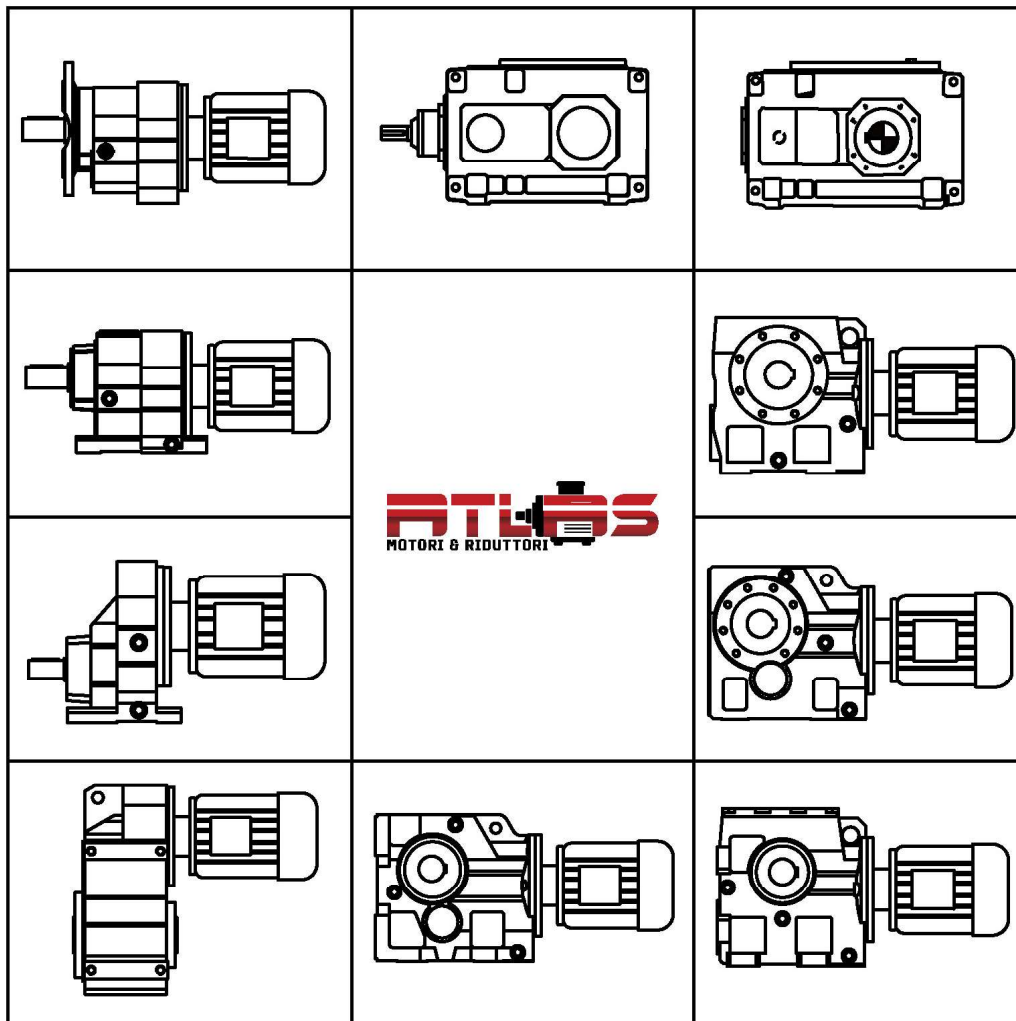


Appearance and Dimension of Direct Input Electric Motor for Helical Gearbox



Motor Baseframe Type	Motor power and poles			Models of Gearbox	Size (mm)		
	4P	6P	8P		L	G	AD
AGM160M	11	7.5	4 5.5	AR(71, 81, 91) AR(77, 87, 97) AF(77, 87, 97) AK(77, 87, 97) AS(77, 87, 97)	524	330	255
				AR101, AR107, AF107, AK107	504		
				AR137	476		
				AR(147, 167) AF(127, 157) AK 127, 157, 167, 187)	567		
AGM160L	15	11	7.5	AR(81, 91) AR(87, 97) AF(87, 97, 107) AK(87, 97) AS(87, 97)	547	330	255
				AR101, AR(107, 137), AF107, AK107	519		
				AR(147, 167) AK(127, 157, 167, 187) AF(127, 157)	602		
AGM180M	18.5			AR81, AR87, AF87, AK87, AS87	583	380	280
				AR(91, 101) AR(97, 107, 137) AF(97, 107) AK(97, 107) AS97	555		
				AR147, AK127, AF127	583		
				AR167, AK(157, 167, 187), AF157	635		
AGM180L	22	15	11	AR81, AR87, AF87, AK87, AS87	616	380	280
				AR(91, 101) AR(97, 107, 137) AF(97, 107) AK(97, 107) AS97	588		
				AR147, AK127, AF127	616		
				AR167, AK(157, 167, 187), AF157	666		
AGM200L	30	18.5 22	15	AR(91, 101) AR(97, 107) AF(97, 107) AK(97, 107)	654	420	305
				AR137, AR147, AK127, AF127	654		
				AR167, AK(157, 167, 187), AF157	642		
AGM225S	37		18.5	AR101, AR107, AR137, AF107, AK107	680	450	345
				AR147, AK127, AF127	674		
				AR167, AK(157, 167, 187), AF157	669		
AGM225M	45	30	22	AR101, AR107, AR137, AF107, AK107	702	450	345
				AR147, AK127, AF127	696		
				AR167, AK(157, 167, 187), AF157	691		
AGM250M	55	37	30	AR137, AR147, AK127, AF127	775	510	370
				AR167, AK(157, 167, 187), AF157	770		
AGM280S	75	45	37	AR(147, 167), AK(127, 157, 167, 187), AF(127, 157)	828	580	410
AGM280M	90	55	45	AR(147, 167), AK(127, 157, 167, 187), AF(127, 157)	879	580	410
AGM315S	110	75	55	AR167, AK(157, 167, 187), AF157	1100	645	530
AGM315M	132	90	75	AR167, AK(157, 167, 187), AF157	1180	645	530
AGM315L1	160	110	90	AR167, AK(157, 167, 187), AF157	1270	645	530
AGM315L2	200	132	110	AR167, AK(157, 167, 187), AF157	1270	645	530

Our **Product**



Atlas Motori Riduttori SRL

Via Bocchetto 6, 20123 Milan (MI) ITALY

web: www.atlasmotoriduttori.com

e-mail: export@atlasmotoriduttori.com

Distributor: