FUJITA
HEAVY DUTY ELECTRIC MOTORS

BEST EQUIPMENT

SHAFT HELICAL

Geared Motor

Excellent Performance

High Efficiency

FUJITA 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 reductors can fit motors with different power, so that it's possible for different types of machines to combine or connect.

www.indotara.co.id

FUJITA
HEAVY DUTY ELECTRIC MOTORS

TABLE OF CONTENT

FUJITA
HEAVY DUTY ELECTRIC MOTORS

BEST EQUIPMENT

SHAFT HELICAL

WK Series Helical Bevel Gear Motor

FUJITA reductors 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 reductors can fit motors with different power, so that it's possible for different types of machines to combine or connect.

WKAB

Foot-mounted helical-bevel gear reductor with hollow shaft

WKAT

Helical-bevel gear reductor in torque-arm version with hollow shaft

WKA

Helical-bevel gear reductor with hollow shaft

WKF

Helical-bevel gear reductor in B5 flange-mounted version

WKAZ

Short flange mounted helical-bevel gear reducror with hollow shaft

WK..WR

Combination of WK series reductor and WR..7 series reductor

WKAF

Helical bevel gear reducter in B5 flange mounted version with hollow shaft

WK..S

Input-shaft style, in another word, helical-bevel gear reductor equipped with input shaft but without the motor

WK

Foot-mounted helical-bevel gear reductor

CHARACTERISTIC

1. FUJITA reductors 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 reductors 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, the bottom feet installs the machine that deceleration machine have two bottom feets processes to install the flat surface.

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 1.800 r/m. The circumferential speed of the gear should not exceed 20m/s.
4. Suitable for normal-reverse rotation.
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 determined before deciding the service factor. The load classifications is calculated with the following formula.

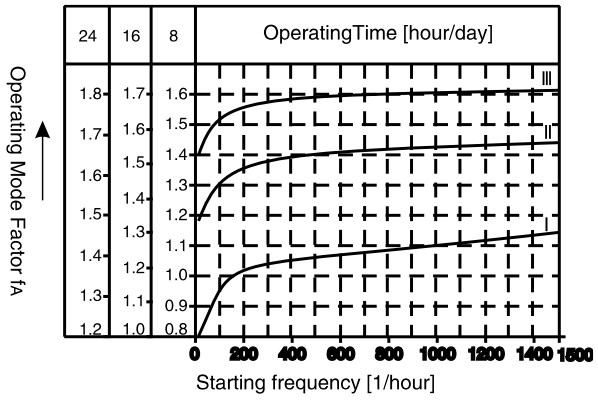
LOAD CLASSIFICATION

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

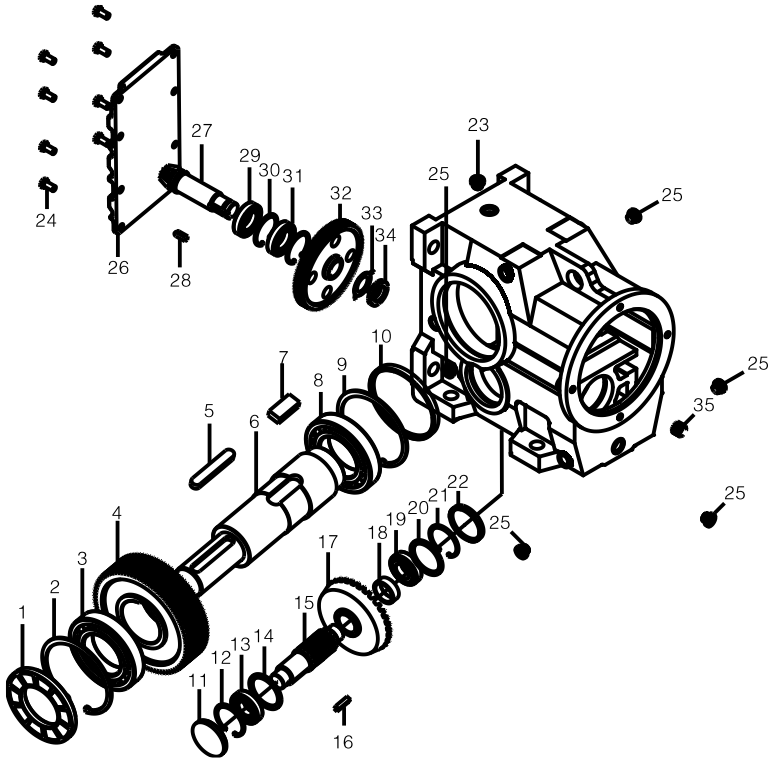
Please contact our technical supporting department in case the mass acceleration factor >10.

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

The actual operating mode factor (f_A) should meet the following formula: Service factor $f_B \geq$ operating mode factor f_A
The service factor f_B 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 reductor, please refer to the attached Instruction Manual of the Reductor and the Variable Speed Motor.



MOUNTING TYPE: WK SERIES STRUCTRUE DRAWING



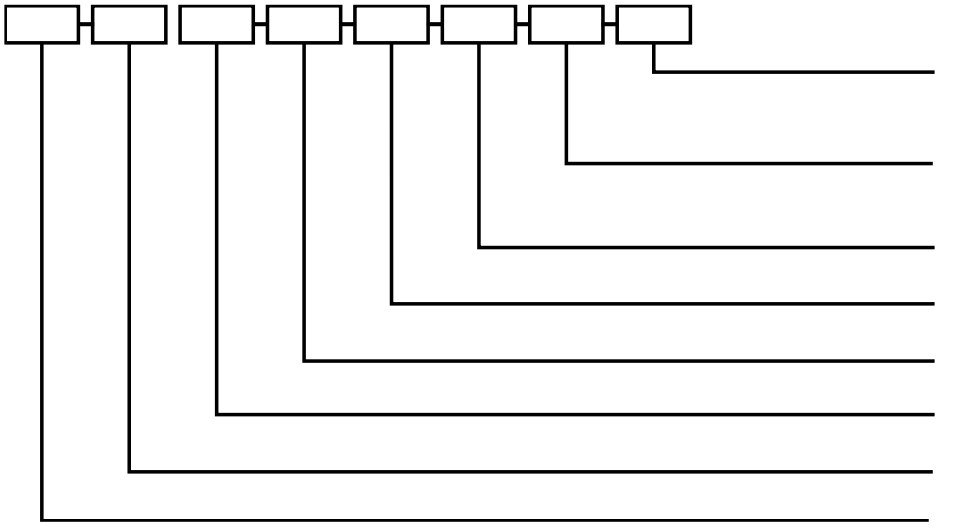
1	Circlip for hole	19	Bearing
2	Circlip for hole	20	Adjusting strip
3	Bearing	21	Circlip for hole
4	First-stage big gear	22	Grand
5	Key	23	Oil gauge
6	Output shaft	24	Screw
7	Key	25	Oil plug
8	Bearing	26	Cover plate
9	Circlip for hole	27	Second-stage gear shaft
10	Grand	28	Key
11	Grand	29	Bearing
12	Circlip for hole	30	Circlip for hole
13	Bearing	31	Bearing
14	Adjusting trip	32	Circlip for shaft
15	Second-stage gear shaft	33	First-stage big gear
16	Key	34	Round nut
17	Second-stage gear shaft	35	First-stage gear shaft
18	Shaft sleeve		

Type, specification and model notation for WK series parallel shaft bevel gear speed reducers.:

Types, specifications of this series speed reducer have 12 kinds including WK 37, 47, 57, 67, 77, 87, 97, 107, 127, 157, 167, 187 etc.

Speed reducing ratio: 5~186, which can be allocated to 0.18~200kW.

INSTRUCTIONS FOR MODELS



The direction (angle) of the motor connection box

The direction of the output shaft or the output flange

Mounting position

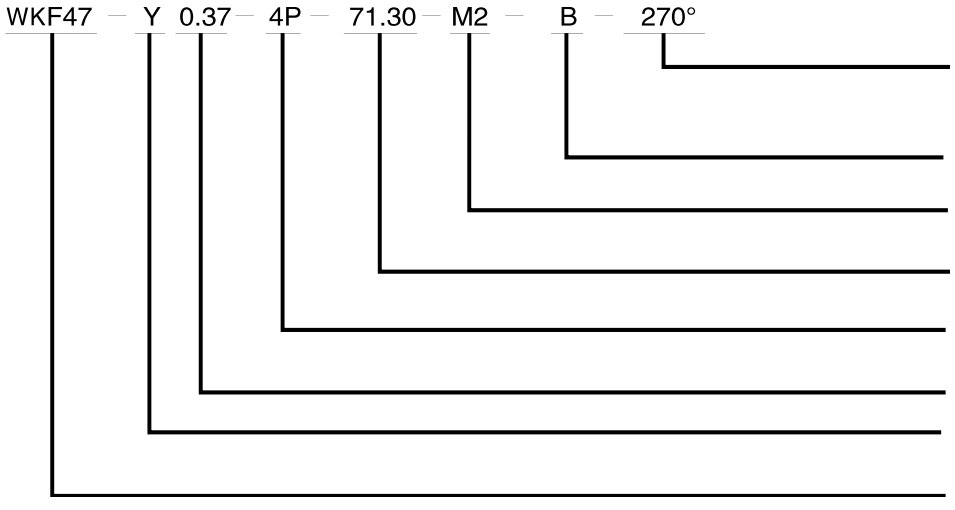
Ratio

Motor pole

Motor power

The codes for motor types

The mounting type of the reductor and specifications



The motor connecting box is at the position of 270° in the mounting position example.

In the example the output flange is in the direction of B

Mounting position: M2

Ratio: 71.30

Poles 4

0.37kW

Motors of Y series

Specification 47 for model WKF

Note:

1. The input-shaft style is not equipped with any motor.
2. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
3. The mounting position of M1 as shown in the mounting position example is the default way when supplying unless otherwise specified.
4. 0° as shown in the mounting position example is the default connection box angle when supplying unless otherwise specified.
5. The mounting position of A as shown in the mounting position example is the default way when supplying reductors such as WK, WKF, WKAF, WKH model unless otherwise specified.
6. It is necessary to note the direction of rotation from the output shaft end.
7. About Motor size, please check table of motor's dimensions.

CODES FOR MOTOR TYPES

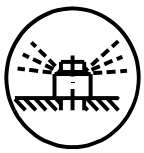
Y Series	Y	Flame-proof Motor	YB	Direct Current Motor
Brake Motor	YEJ	Roll Motor	YG	Variable Frequency Motor

LENGTH OF CONNECT FLANGE L2

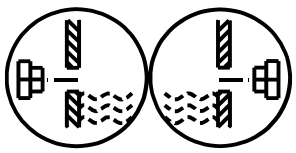
The form on length of the connect flange L2 of the parallel shaft helical gear reductor of WK series

Motor frame size / Reductor type	63	71	80	90	100	112	132	160	180	200	225	250	280	315
WK..37	61.5	61.5	80	80	98	-	-	-	-	-	-	-	-	-
WK..47	56	56	74.5	74.5	90.5	-	-	-	-	-	-	-	-	-
WK..57	56	56	74.5	74.5	90.5	90.5	-	-	-	-	-	-	-	-
WK..67	56	56	74.5	74.5	90.5	90.5	123	-	-	-	-	-	-	-
WK..77	50	50	68.5	68.5	82.5	82.5	111	152.5	-	-	-	-	-	-
WK..87	-	-	63.5	63.5	78.5	78.5	106	147.5	147.5	-	-	-	-	-
WK..97	-	-	-	57.5	72.5	72.5	101	142.5	142.5	144.5	-	-	-	-
WK..107	-	-	-	-	66.5	66.5	95	136.5	136.5	138.5	168.5	-	-	-
WK..127	-	-	-	-	-	-	80	121.5	121.5	123.5	153.5	153.5	153.5	-
WK..157	-	-	-	-	-	-	-	113.5	113.5	115.5	145.5	145.5	145.5	184
WK..167	-	-	-	-	-	-	-	113.5	113.5	115.5	145.5	145.5	145.5	184
WK..187	-	-	-	-	-	-	-	113.5	113.5	115.5	145.5	145.5	145.5	184

EXPLANATION OF MOUNTING POSITION EXAMPLE



Breather valve



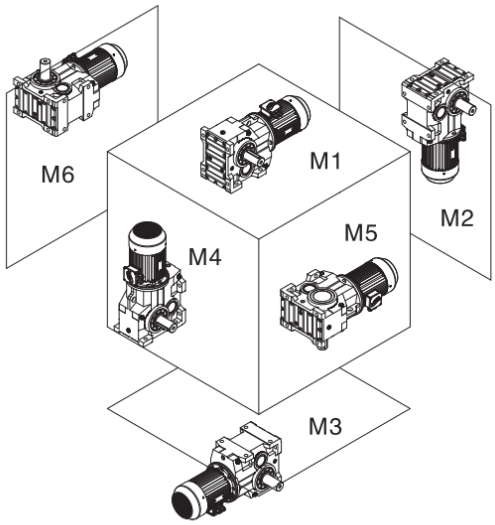
Oil level plug

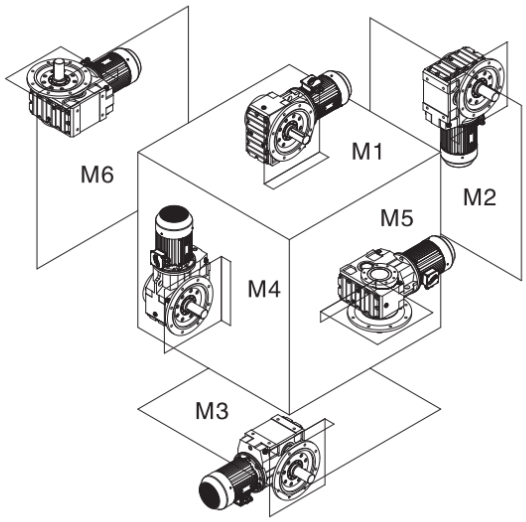
Oil drain plug

EXPLANATION OF PARAMETER SELECTION LIST

Power (kW)	Output Speed (r/min)	Output Torque (N.m)	Ratio (i)	Service Factor (fB)	Type	Motor pole	Weight
0.37	11	336	132.32	1.19	WK 47	4P	37
	11	318	125.23	1.26	WKA 47	4P	36
	13	271	106.69	1.47	WKF 47	4P	39
	15	235	92.27	1.71	WKAF 47	4P	38

WK Series Installation Direction Diagram





WK Series Oil Capacity Table (Unit: kg)

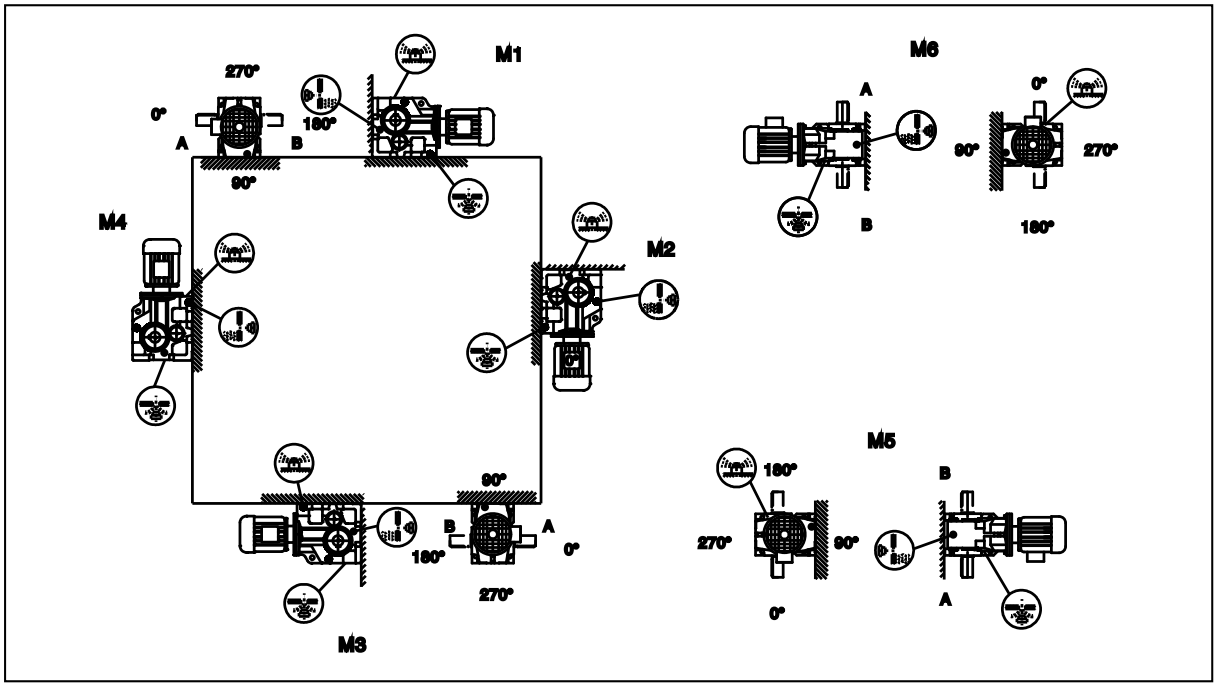
Installation Orientation / Machine Model	M1	M2	M3	M4	M5	M6
WK37	0.4	0.8	0.9	1.2	0.9	0.9
WK47	0.6	0.9	1	1.4	1.1	1.1
WK57	1.1	2.1	2.3	2.8	2.4	2.2
WK67	1.1	2.2	2.4	3.2	2.5	2.5
WK77	1.9	3.6	3.9	5.2	3.7	3.9
WK87	3.2	7	7.6	9.5	6.8	**7**
WK97	6.1	12.2	13.7	17.5	13.7	14
WK107	6.5	13.2	16	21	15	15
WK127	10.8	21.3	22.6	27.7	20.5	21
WK157	17.2	34.4	36	50	32.2	34.4
WK167	31	88	88	110	75	75
WK187	56	155	155	190	120	120

WK SERIES WEIGHT TABLE

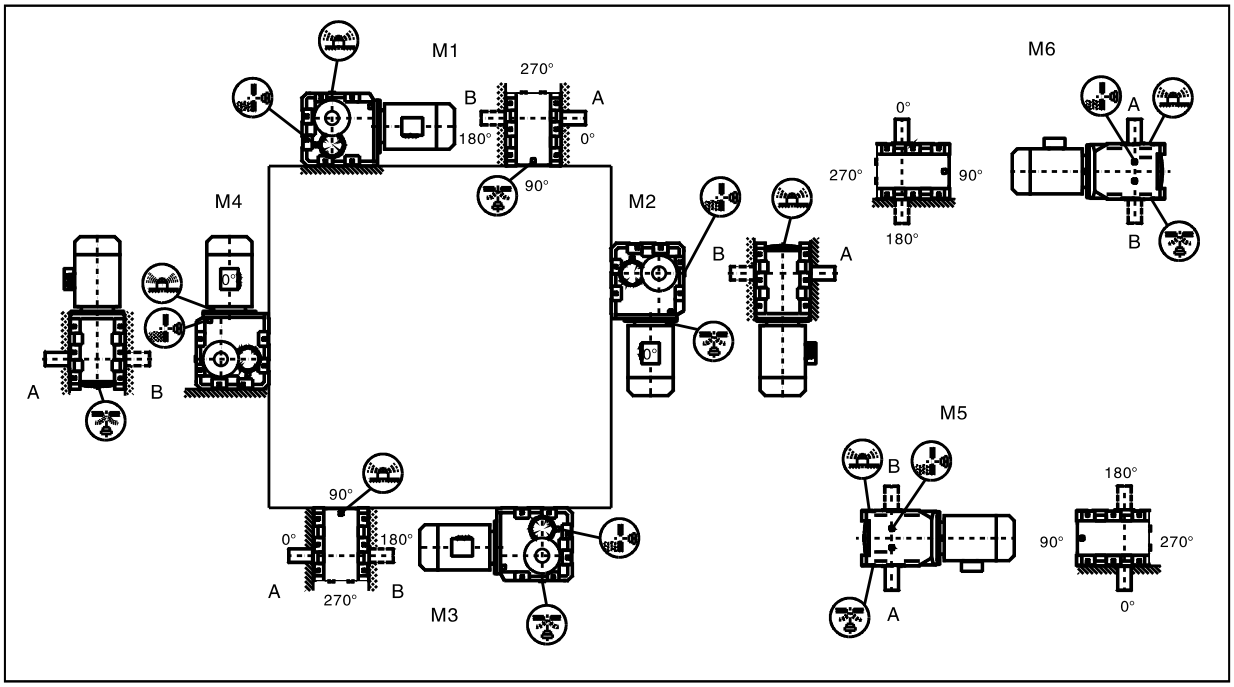
Type	WK37	WK47	WK57	WK67	WK77	WK87	WK97	WK107	WK127	WK157	WK157	WK187
Kg/Weight Kg	13	22	29	33	45	81	150	230	420	680	1050	1650

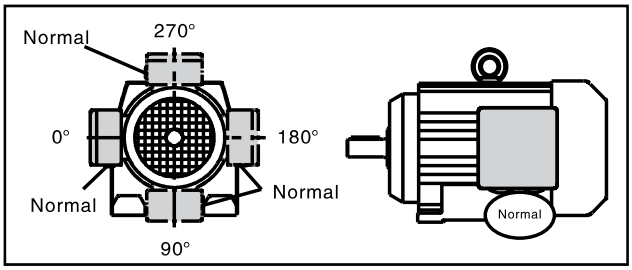
Note: Weight in the table means the weight when oil is not added. When input shaft is furnished, 10% weight should be added; If there is a motor, please add weight according to motor type.

WK/WKAB37-157 Mounting Position Example

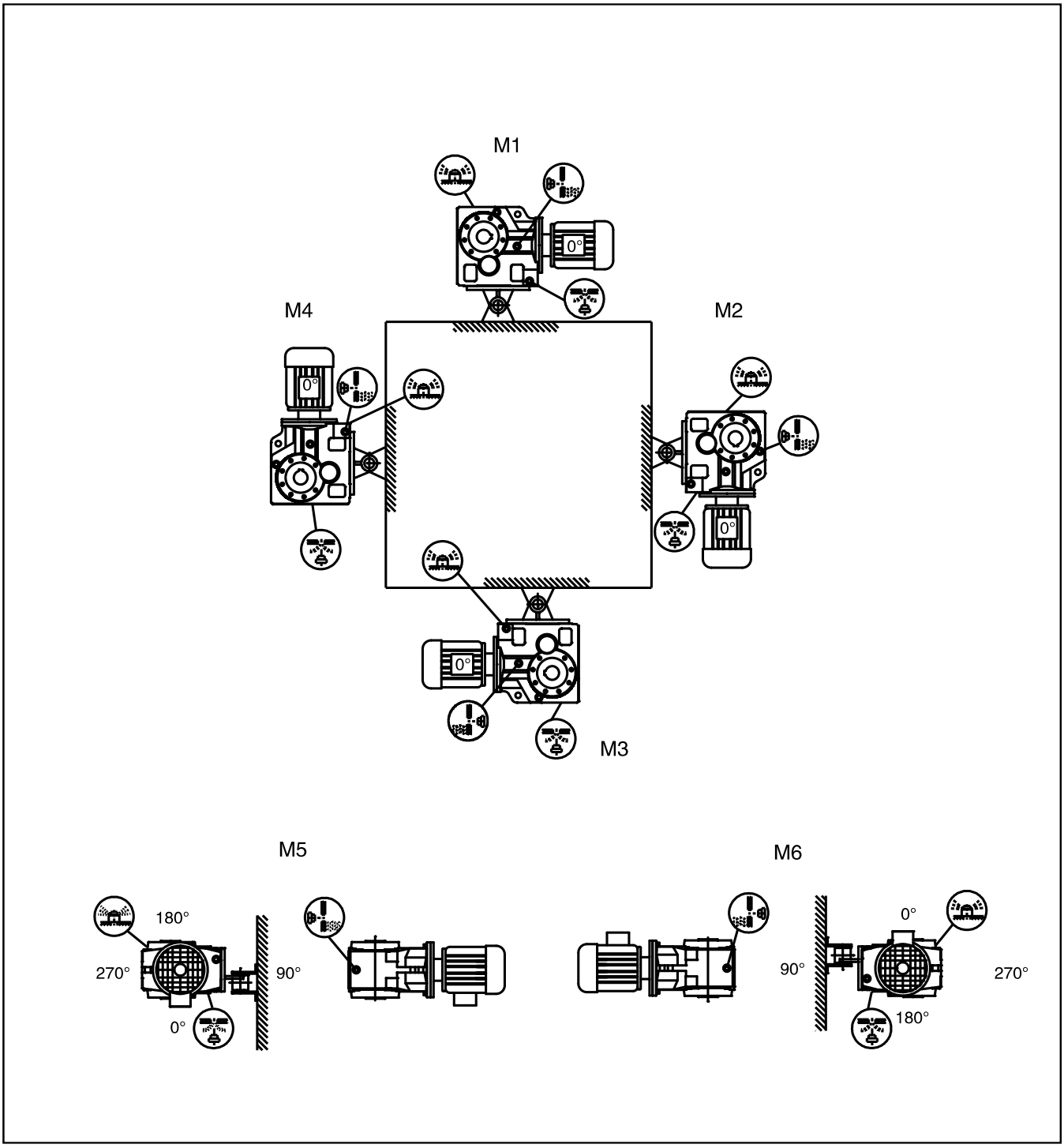


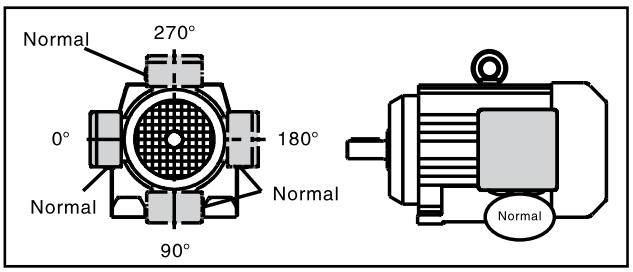
WK/WKA167-187 Mounting Position Example



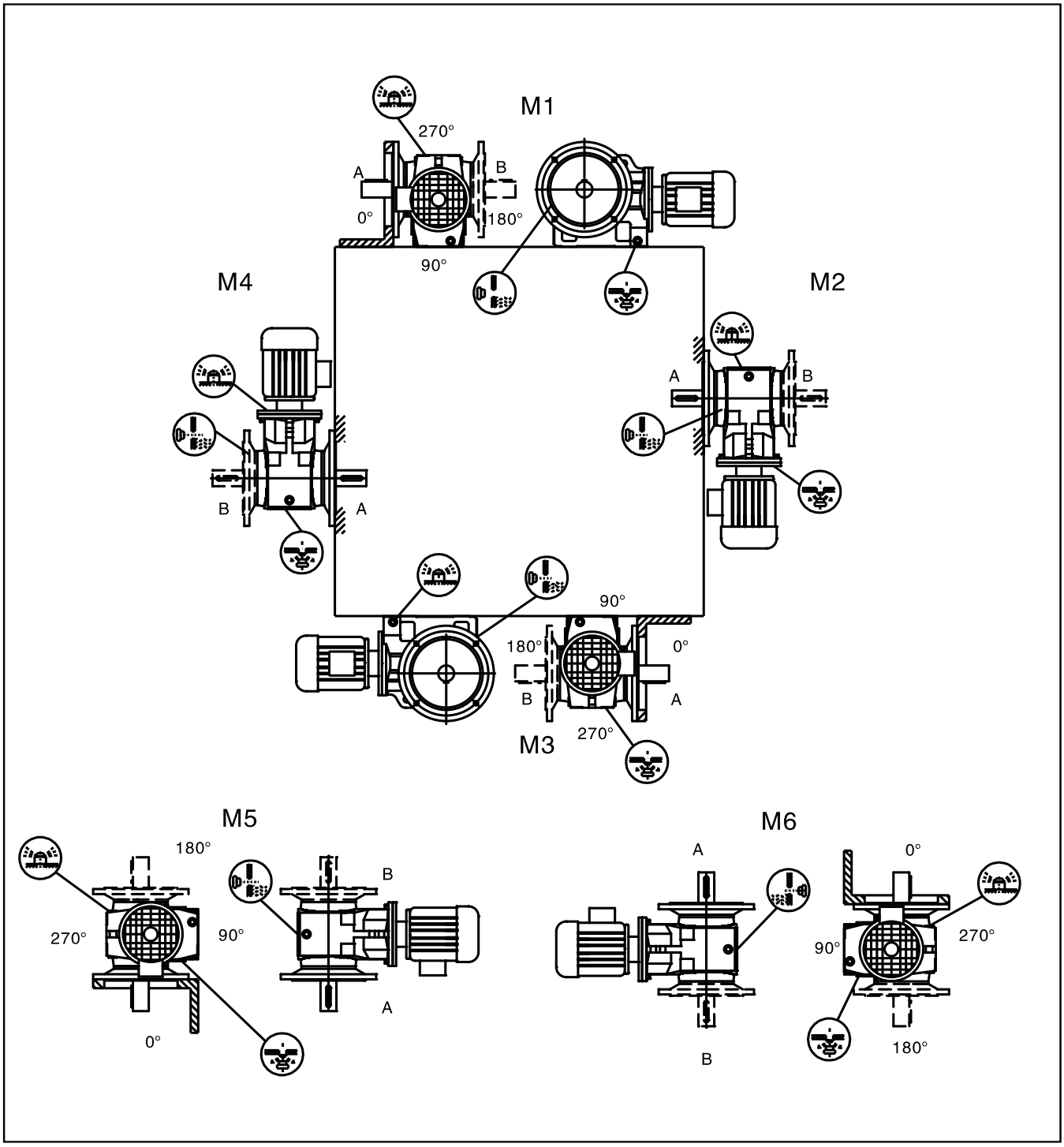


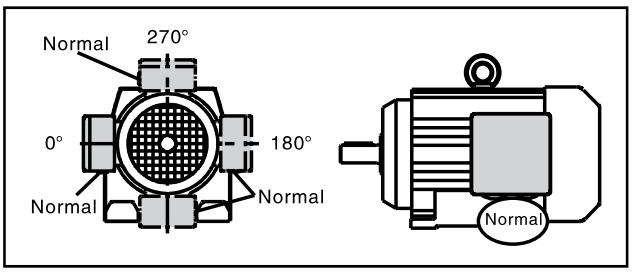
WKAT37-157 Mounting Position Example





WK/WKAB37-157 Mounting Position Example





Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.12 KW					
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127WR77	0.08	11800	17550	1.10	**4P**
	0.09	10700	16006	1.20	
	0.09	9880	14975	1.30	
	0.11	8010	12440	1.60	
	0.13	6920	10915	1.90	
	0.14	6320	9819	2.1	
	0.16	5220	8443	2.5	
	0.18	4820	7482	2.7	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107WR77	0.10	9590	14311	0.85	**4P**
	0.11	8060	12211	1.00	
	0.13	6930	10677	1.15	
	0.14	6280	9524	1.25	
	0.17	5410	8328	1.50	
	0.19	4720	7270	1.70	
	0.22	3760	6184	2.1	
	0.24	3320	5662	2.4	
	0.27	3020	5138	2.7	
	0.32	2700	4359	3.0	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97WR57	0.17	5310	8054	0.80	**4P**
	0.20	4350	6970	1.00	
	0.23	3890	6027	1.00	
	0.26	3560	5391	1.10	
	0.30	2950	4669	1.20	
	0.34	2640	4082	1.45	
	0.39	2320	3583	1.65	
	0.44	2040	3108	1.85	
	0.50	1720	2757	2.1	
	0.57	1580	2419	2.5	
	0.65	1370	2123	2.7	
	0.74	1220	1856	3.2	
	0.85	1000	1625	3.5	
	0.95	860	1430	4.3	
	1.1	830	1261	5.0	
	1.2	725	1102	5.2	
WKA 77WR37 WKAF 77WR37 WK 77WR37 WKAF 77WR37	0.26	3380	5240	0.80	**4P**
	0.30	2850	4562	0.95	
	0.34	2610	4037	1.05	
	0.38	2330	3609	1.15	
	0.44	1990	3107	1.35	
	0.51	1700	2728	1.60	
	0.58	1500	2371	1.80	
	0.66	1380	2088	1.95	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.12 KW					
	0.74	1220	1854	2.2	
	0.83	1090	1657	2.5	
	0.97	930	1415	2.9	
	1.1	800	1229	3.4	
	1.3	695	1078	3.9	
	1.5	585	951	4.6	
	1.6	505	837	5.4	
	1.9	435	726	6.2	
WK77 WR57 WKF77 WR57 WKA77 WR57 WKAF77 WR57	0.51	1790	2717	0.85	**4P**
	0.58	1510	2370	1.05	
	0.67	1380	2050	1.10	
	0.78	1180	1772	1.30	
	0.91	1010	1514	1.55	
	0.99	920	1388	1.70	
	1.1	810	1218	1.90	
	1.35	710	1053	2.2	
	1.5	620	924	2.5	
	1.7	550	815	2.8	
	2.0	440	709	3.5	
	2.2	385	622	4.0	
WK67 WR37 WKF67 WR37 WKA67 WR37 WKAF67 WR37	1.0	930	1351	0.90	**4P**
	1.2	795	1171	1.05	
	1.3	695	1034	1.20	
	1.5	585	903	1.40	
	1.7	545	793	1.50	
	2.0	440	697	1.85	
	2.2	390	613	2.1	
	2.5	340	542	2.4	
	2.9	315	471	2.6	
	3.3	265	420	3.1	
	3.8	235	361	3.5	
	4.3	210	323	3.9	
	4.9	176	279	4.7	
	5.6	155	246	5.3	
	6.3	134	217	6.1	
WK57 R37 WKF57 R37 WKA57 R37 WKAFS57 R37	1.5	585	906	1.05	**4P**
	1.7	525	806	1.15	
	2.0	445	699	1.35	
	2.2	390	615	1.55	
	2.5	340	544	1.75	
	2.9	310	473	1.95	
	3.3	265	421	2.3	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.12 KW					
	3.8	235	362	2.5	
	4.3	210	319	2.9	
	4.9	176	280	3.4	
	5.6	155	246	3.9	
	6.4	135	215	4.4	
	7.2	122	192	4.9	
WK47 WR37 WKF47 WR37 WKA47 WR37 WKAF47 WR37	2.2	430	639	0.95	**4P**
	2.5	370	552	1.10	
	2.8	315	495	1.25	
	3.2	280	426	1.45	
	3.7	235	375	1.70	
	4.2	215	327	1.85	
	4.8	189	289	2.1	
WK37 WR17 WKF37 WR17 WKA37 WR17 WKAF37WR17	4.0	235	346	0.85	**4P**
	4.5	200	304	1.00	
	5.2	182	267	1.10	
	5.9	157	234	1.25	
	6.7	138	205	1.45	
	7.6	120	181	1.65	
	8.6	105	160	1.90	
	10	88	136	2.3	
WK 67 WKF 67 WKA 67 WKAF 67	6.2	184	144.79	4.4	**6P**
WK 57 WKF 57 WKA 57 WKAF 57	6.2	185	145.15	3.2	**6P**
	7.3	158	123.85	3.8	
	8.3	138	108.29	4.3	
	8.8	131	102.88	4.6	
	10	115	90.26	5.2	
	12	98	76.26	6.2	
WK 57 WKF 57 WKA 57 WKAF 57	9.5	121	145.14	5.0	**4P**
	11	103	123.85	5.8	
	13	90	108.29	6.7	
	13	85	102.88	7.0	
	15	75	90.26	8.0	
WK 47 WKF 47 WKA 47 WKAF 47	6.8	168	131.87	2.4	**6P**
	7.4	155	121.48	2.6	
	8.6	133	104.37	3.0	
WK 47 WKF 47 WKA 47 WKAF 47	10	110	131.87	8140	**4P**
	11	101	121.48	8170	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.12 KW					
WK 37 WKF 37 WKA 37 WKAF37	8.5	136	106.38	1.50	**6P**
	9.2	125	97.81	1.60	
	11	107	83.69	1.90	
	12	92	72.54	2.2	
WK 37 WKF 37 WKA 37 WKAF37	13	88	106.38	2.3	**4P**
	14	81	97.81	2.5	
	16	70	83.69	2.9	
	19	60	72.54	3.3	
	20	56	67.80	3.5	
	24	49	58.60	4.1	
	28	41	49.79	4.8	
	31	37	44.46	5.4	
	36	32	37.97	6.3	
	39	30	35.57	6.8	
	46	25	29.96	8.0	
	48	24	28.83	8.4	
	55	21	24.99	9.6	
	59	19	23.36	10	
	68	17	20.19	11	
	80	14	17.15	13	
	90	13	15.32	14	
	105	11	13.08	15	
	114	10	12.14	16	
0.18 KW					
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.09	16300	14975	0.80	**4P**
	0.11	13400	12440	0.95	
	0.12	11600	10915	1.10	
	0.13	10500	9819	1.25	
	0.16	8850	8443	1.45	
	0.18	8040	7482	1.60	
	0.20	6990	6565	1.85	
	0.23	5940	5804	2.2	
	0.26	5220	5027	2.5	
	0.30	4530	4423	2.9	
	0.34	3960	3889	3.3	
	0.40	3310	3311	3.9	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	0.16	8990	8328	0.90	**4P**
	0.18	7850	7270	1.00	
	0.21	6420	6184	1.25	
	0.23	5760	5662	1.40	
	0.26	5230	5138	1.55	
	0.30	4570	4359	1.75	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.18 KW					
	0.35	4000	3810	2.0	
	0.39	3440	3358	2.3	
	0.44	3090	2977	2.6	
	0.51	2700	2599	3.0	
	0.58	2340	2286	3.4	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	0.28	4960	4669	0.85	4P
	0.32	4390	4082	1.00	
	0.37	3860	3583	1.10	
	0.42	3370	3108	1.25	
	0.48	2910	2757	1.50	
	0.55	2640	2419	1.65	
	0.62	2290	2123	1.90	
	0.71	2030	1856	2.1	
	0.81	1710	1625	2.5	
	0.92	1490	1430	2.9	
	1.0	1380	1261	3.1	
	1.2	1210	1102	3.6	
	1.4	1040	957	4.1	
	1.5	930	855	4.6	
	1.8	755	734	5.7	
	2.0	675	652	6.4	
WK87 WR57 WKF87 WR57 WKA87 WR57 WKAF87WR57	0.42	3330	3107	0.80	4P
	0.48	2880	2728	0.95	
	0.56	2520	2371	1.05	
	0.63	2290	2088	1.20	
	0.71	2030	1854	1.35	
	0.80	1820	1657	1.50	
	0.93	1540	1415	1.75	
	1.1	1340	1229	2.0	
	1.2	1160	1078	2.3	
	1.4	1000	951	2.7	
	1.6	870	837	3.1	
	1.8	755	726	3.6	
WK77 WR37 WKF77 WR37 WKA77 WR37 WKAF77 WR37	0.87	1670	1514	0.95	4P
	0.95	1530	1388	1.00	
	1.1	1340	1218	1.15	
	1.2	1170	1053	1.35	
	1.4	1030	924	1.50	
	1.6	910	815	1.70	
	1.9	750	709	2.1	
	2.1	655	622	2.4	
	2.4	590	552	2.6	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.18 KW					
	2.7	515	485	3.0	
	3.1	455	428	3.4	
	3.6	400	367	3.9	
WK67 WR37 WKF67 WR37 WKA67 WR37 WKAF67 WR37	1.5	980	903	0.85	4P
	1.7	890	793	0.90	
	1.9	745	697	1.10	
	2.2	655	613	1.25	
	2.4	580	542	1.40	
	2.8	520	471	1.60	
	3.2	445	420	1.85	
	3.7	395	361	2.1	
	4.1	350	323	2.3	
	4.7	295	279	2.8	
WK47 WR37 WKF47 WR37 WKA47 WR37 WKAF47 WR37	3.5	400	375	1.00	4P
	4.0	360	327	1.10	
	4.6	315	289	1.25	
	5.2	275	256	1.45	
	5.9	245	225	1.65	
	6.7	210	198	1.90	
	7.7	183	171	2.2	
	8.6	164	153	2.4	
	10	142	131	2.8	
WK 67 WKF 67 WKA 67 WKAF 67	6.0	285	144.79	2.9	6P
	7.0	145	123.54	3.4	
	8.1	215	108.03	3.8	
	8.5	205	102.62	4.0	
WK 67 WKF 67 WKA 67 WKAF 67	9.1	189	144.79	4.3	4P
	11	161	123.54	5.1	
	12	141	108.03	5.8	
WK 57 WKF 57 WKA 57 WKAF 57	6.0	285	145.15	2.1	6P
	7.0	245	123.85	2.5	
	8.0	215	108.29	2.8	
	8.5	205	102.88	3.0	
	9.6	178	90.26	3.4	
WK 57 WKF 57 WKA 57 WKAF 57	9.1	189	145.15	3.2	4P
	11	161	123.85	3.7	
	12	141	108.29	4.3	
	13	134	102.88	4.5	
	15	118	90.26	5.1	
	17	100	76.56	6.0	
	6.2	260	131.87	1.55	
	7.2	240	121.48	1.65	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.18 KW					
WK 47 WKF 47 WKA 47 WKAF 47	8.3	205	104.37	1.95	**6P**
	9.6	180	90.86	2.2	
	10	168	85.12	2.4	
WK 47 WKF 47 WKA 47 WKAF 47	10	172	131.87	2.3	**4P**
	11	158	121.48	2.5	
	13	136	104.37	2.9	
	15	118	90.86	3.4	
	16	111	85.12	3.6	
WK 37 WKF 37 WKA 37 WKAF 37	8.2	210	106.38	0.95	**6P**
	8.9	193	97.81	1.05	
	10	165	83.69	1.20	
	12	143	72.54	1.40	
WK 37 WKF 37 WKA 37 WKAF 37	12	139	106.38	1.45	**4P**
	14	127	97.81	1.55	
	16	109	83.69	1.85	
	18	95	72.54	2.1	
	19	88	67.80	2.3	
	23	76	58.60	2.6	
	27	65	49.79	3.1	
	30	58	44.46	3.5	
	35	49	37.97	4.1	
	37	46	35.57	4.3	
	44	39	29.96	5.1	
	46	38	28.83	5.3	
	53	33	24.99	6.2	
	57	30	23.36	6.4	
	65	26	20.19	7.0	
	77	22	17.15	8.1	
	86	20	15.31	8.8	
	101	17	13.08	9.7	
	109	16	12.14	10	
	126	14	10.49	12	
	148	12	8.91	14	
	166	10	7.96	15	
0.25 KW					
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.13	15300	9819	0.85	**4P**
	0.15	13000	8443	1.00	
	0.17	11700	7482	1.10	
	0.20	10200	6565	1.30	
	0.22	8770	5804	1.50	
	0.26	7670	5027	170	
	0.29	6680	4423	1.95	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.25 KW					
	0.33	5850	3889	2.2	
	0.39	4930	3311	2.6	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	0.21	9440	6184	0.85	**4P**
	0.23	8520	5662	0.95	
	0.25	7730	5138	1.05	
	0.30	6700	4359	1.20	
	0.34	5850	3810	1.35	
	0.39	5070	3358	1.60	
	0.44	4540	2977	1.75	
	0.50	3970	2599	2.0	
	0.57	3450	2286	2.3	
	0.67	2930	1939	2.7	
	0.76	2640	1713	3.0	
	0.84	2390	1554	3.3	
	0.97	2060	1336	3.9	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	0.42	4890	3108	0.90	**4P**
	0.47	4250	2757	1.00	
	0.57	3840	2419	1.10	
	0.61	3340	2123	1.30	
	0.70	2950	1856	1.45	
	0.80	2520	1625	1.70	
	0.91	2190	1430	1.95	
	1.0	2010	1261	2.1	
	1.2	1750	1102	2.5	
	1.4	1520	957	2.8	
	1.5	1360	855	3.2	
WK 67 WKF 67 WKA 67 WKAF 67	0.62	3320	2088	0.80	**6P**
	0.70	2950	1854	0.90	
	0.78	2640	1657	1.00	
	0.92	2250	1415	1.20	
	1.1	1950	1229	1.40	
	1.2	1700	1078	1.60	
	1.4	1470	951	1.85	
	1.5	1280	837	2.1	
	1.8	1110	729	2.4	
	2.0	990	638	2.7	
WK77 WR37 WKF77 WR37 WKA77 WR37 WKAF77 WR37	1.2	1690	1053	0.90	**4P**
	1.4	1480	924	1.05	
	1.6	1310	815	1.20	
	1.8	1100	709	1.40	
	2.1	960	622	1.60	
	2.3	860	552	1.80	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.25 KW					
	2.7	755	485	2.0	4P
	3.0	665	428	2.3	
	3.5	580	367	2.7	
	4.0	515	328	3.0	
	4.5	460	290	3.4	
	5.2	395	252	3.9	
	5.9	345	221	4.5	
	6.7	305	195	5.1	
	7.4	270	175	5.7	
WK67 WR37 WKF67 WR37 WKA67 WR37 WKAF67 WR37	2.1	960	613	0.85	4P
	2.4	850	542	0.95	
	2.8	755	471	1.10	
	3.1	655	420	1.25	
	3.6	575	361	1.45	
	4.0	510	323	1.60	
	4.7	430	279	1.90	
	5.3	385	246	2.1	
	6.0	335	217	2.4	
WK57 WR37 WKF57 WR37 WKAS57 WR37 WKAF57 WR37	3.1	655	421	0.90	4P
	3.6	575	362	1.05	
	4.1	505	319	1.20	
	4.7	435	280	1.35	
	5.3	385	246	1.55	
	6.1	335	215	1.80	
	6.8	300	192	2.0	
	7.8	260	166	2.3	
	9.0	225	145	2.7	
	10	205	129	2.9	
	12	173	111	3.5	
	13	152	97	4.0	
WK 77 WKF 77 WKA 77 WKAF 77	4.4	540	154.02	2.9	8P
	5.0	475	135.28	3.3	
	5.3	450	128.52	3.4	
	6.0	400	113.56	3.9	
WK 77 WKF 77 WKA 77 WKAF 77	4.6	520	192.18	2.8	6P
	4.9	485	179.37	3.0	
	5.7	420	154.02	3.7	
	6.5	365	135.28	4.2	
WK 67 WKF 67 WKA 67 WKAF 67	5.5	435	123.54	1.90	8P
	6.3	380	108.03	2.2	
	6.6	360	102.62	2.3	
	7.6	315	90.04	2.6	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.25 KW					
WK 67 WKF 67 WKA 67 WKAF 67	6.1	395	144.79	2.1	6P
	7.1	335	123.54	2.5	
	8.1	295	108.03	2.8	
	8.6	280	102.62	3.0	
WK 67 WKF 67 WKA 67 WKAF 67	9.0	265	145.15	3.1	4P
	11	225	123.54	3.6	
	12	195	108.03	4.1	
	13	189	102.62	4.3	
WK 57 WKF 57 WKA 57 WKAF 57	6.1	395	145.15	1.50	6P
	7.1	335	123.85	1.80	
	8.1	295	108.29	2.0	
	8.6	280	102.88	2.2	
	9.8	245	90.26	2.5	
	11	210	76.56	2.9	
WK 57 WKF 57 WKA 57 WKAF 57	9.0	265	145.15	2.2	4P
	11	225	123.85	2.6	
	12	199	108.29	3.0	
	13	189	102.88	3.2	
	14	166	90.26	3.6	
	17	141	76.56	4.3	
WK 47 WKF 47 WKA 47 WKAF 47	6.7	360	131.87	1.10	6P
	7.2	330	121.48	1.20	
	8.4	285	104.37	1.40	
	9.7	245	90.86	1.60	
	10	230	86.12	1.75	
WK 47 WKF 47 WKA 47 WKAF 47	9.9	240	131.87	1.65	6P
	11	225	121.48	1.80	
	12	192	104.37	2.1	
	14	167	90.86	2.4	
	15	156	85.12	2.6	
WK 37 WKF 37 WKA 37 WKAF 37	11	225	83.69	0.90	6P
	12	197	72.54	1.00	
	13	184	67.80	1.10	
	15	159	58.60	1.25	
	18	135	49.79	1.50	
WK 37 WKF 37 WKA 37 WKAF 37	12	195	106.38	1.00	4P
	13	180	97.81	1.10	
	16	154	83.69	1.30	
	18	133	72.54	1.50	
	19	125	67.80	1.60	
	22	108	58.60	1.85	
	26	91	49.79	2.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.25 KW					
WK 37 WKF 37 WKA 37 WKAF 37	29	82	44.46	2.5	**4P**
	34	70	37.97	2.9	
	37	65	35.57	3.1	
	43	55	29.96	3.6	
	45	53	28.83	3.8	
	52	46	24.99	4.4	
	56	43	23.36	4.6	
	64	37	20.19	5.0	
	76	32	17.15	5.7	
	85	28	15.32	6.2	
	99	24	13.08	6.9	
	107	22	12.14	7.2	
	124	19	10.49	8.3	
	146	16	8.91	9.8	
	163	15	7.96	11	
	191	13	6.80	12	
	204	12	6.37	13	
0.37 KW					
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.18	16600	7482	0.80	**4P**
	0.21	14500	6565	0.90	
	0.24	12600	5804	1.05	
	0.27	11000	5027	1.20	
	0.31	9610	4423	1.35	
	0.35	8430	3889	1.55	
	0.42	7120	3311	1.85	
	0.72	4230	1926	3.1	
	0.79	3860	1757	3.4	
	0.90	3360	1541	3.9	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	0.36	8380	3810	0.95	**4P**
	0.41	7300	3358	1.10	
	0.46	6510	2977	1.25	
	0.53	5690	2599	1.40	
	0.60	4970	2286	1.60	
	0.71	4210	1939	1.90	
	0.81	3790	1713	2.1	
	0.89	3440	1554	2.3	
	1.0	2950	1336	2.7	
	1.2	2580	1166	3.1	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	0.65	4770	2123	0.90	**8P**
	0.74	4200	1856	1.00	
	0.85	3610	1430	1.20	
	0.95	3160	1261	1.35	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.37 KW					
	1.1	2850	1261	1.50	
	1.2	2490	1102	1.70	
	1.4	2160	957	2.0	
	1.6	1930	855	2.2	
	1.9	1620	743	2.7	
	2.1	1430	652	3.0	
	2.4	1280	573	3.4	
WK87 WR57 WKF87 WR57 WKA87 WR57 WKAF87WR7	0.97	3200	1415	0.85	**4P**
	1.1	2770	1229	0.95	
	1.3	2420	1078	1.10	
	1.5	2110	951	1.30	
	1.6	1850	837	1.45	
	1.9	1600	726	1.70	
	2.2	1420	638	1.90	
	2.5	1240	562	2.2	
	2.9	1040	747	2.6	
	3.2	940	426	2.9	
	3.7	810	373	3.3	
WK77 WR37 WKF77 WR37 WKA77 WR37 WKAF77 WR37	1.7	1860	815	0.85	**4P**
	2.0	1580	709	1.00	
	2.2	1380	622	1.10	
	2.5	1230	552	1.25	
	2.8	1080	485	1.45	
	3.2	950	428	1.60	
	3.8	830	367	1.85	
	4.2	735	328	2.1	
	4.8	655	290	2.4	
	5.5	565	252	2.8	
	6.2	495	221	3.1	
	7.1	435	195	3.5	
	7.9	390	175	4.0	
	9.0	340	154	4.5	
WK67 WR37 WKF67 WR37 WKA67 WR37 WKAF67 WR37	3.3	940	420	0.90	**4P**
	3.8	820	361	1.00	
	4.3	725	323	1.15	
	4.9	625	279	1.30	
	5.6	550	246	1.50	
	6.3	485	217	1.70	
	7.2	430	191	1.90	
	8.3	370	166	2.2	
	3.6	320	144	2.5	
	11	275	122	3.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.37 KW					
WK57 WR37 WKF57 WR37 WKA57 WR37 WKAF57 WR37	4.9	625	280	0.95	4P
	5.6	550	246	1.10	
	6.4	480	215	1.25	
	7.2	430	192	1.40	
	8.3	370	166	1.60	
	9.6	325	145	1.85	
	11	290	129	2.1	
	12	245	111	2.4	
	14	215	97	2.8	
WK 87 WKF 87 WKA 87 WKAF 87	3.9	910	174.19	3.0	8P
	4.1	850	164.34	3.2	
	4.6	765	147.33	3.5	
WK 87 WKF 87 WKA 87 WKAF 87	4.6	775	197.37	3.5	6P
	5.2	685	174.19	4.0	
WK 77 WKF 77 WKA 77 WKAF 77	5.0	705	135.28	2.2	8P
	5.3	670	128.52	2.3	
	6.0	590	113.56	2.6	
	7.0	505	97.05	3.1	
WK 77 WKF 77 WKA 77 WKAF 77	5.8	605	154.02	2.6	6P
	6.7	670	135.28	2.9	
	7.0	590	128.52	3.1	
	7.9	505	113.56	3.5	
WK 77 WKF 77 WKA 77 WKAF 77	7.2	490	192.18	3.0	4P
	7.7	460	179.37	3.2	
	9.0	395	154.02	3.9	
WK 67 WKF 67 WKA 67 WKAF 67	6.3	560	108.03	1.45	8P
	6.6	535	102.32	1.55	
	7.6	470	90.04	1.75	
WK 67 WKF 67 WKA 67 WKAF 67	7.3	485	123.54	1.70	6P
	8.3	425	108.03	1.95	
	8.8	405	102.62	2.0	
	10	355	90.04	2.3	
WK 67 WKF 67 WKA 67 WKAF 67	9.5	370	144.79	2.2	4P
	11	315	123.54	2.6	
	13	275	108.03	3.0	
	15	230	90.04	3.6	
	18	196	76.37	4.2	
WK 57 WKF 57 WKA 57 WKAF 57	7.3	485	123.85	1.25	6P
	8.3	425	108.29	1.40	
	8.8	405	102.88	1.50	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.37 KW					
	10	355	90.26	1.70	
	12	300	76.56	2.0	
	13	270	69.12	2.2	
WK 57 WKF 57 WKA 57 WKAF 57	9.5	370	145.15	1.60	4P
	11	315	123.85	1.90	
	13	275	108.29	2.2	
	13	265	102.88	2.3	
	15	230	90.26	2.6	
	18	196	76.56	3.1	
	20	177	69.12	3.4	
WK 47 WKF 47 WKA 47 WKAF 47	8.6	410	104.37	1.00	6P
	9.9	355	90.86	1.10	
	11	335	85.12	1.20	
	12	295	75.20	1.35	
WK 47 WKF 47 WKA 47 WKAF 47	10	340	131.87	1.20	4P
	11	310	121.48	1.30	
	13	265	104.37	1.50	
	15	235	90.86	1.70	
	16	220	85.12	1.85	
	18	193	75.20	2.1	
	20	179	69.84	2.2	
	22	162	63.30	2.5	
WK 37 WKF 37 WKA 37 WKAF 37	14	250	97.81	0.80	4P
	16	215	83.69	0.95	
	19	186	72.54	1.10	
	20	174	67.80	1.15	
	24	150	58.60	1.35	
	28	128	49.79	1.55	
	31	114	44.46	1.75	
	36	97	37.97	2.1	
	39	91	35.57	2.2	
	46	77	29.96	2.6	
	48	74	28.83	2.7	
	55	64	24.99	3.1	
	59	60	23.36	3.3	
	68	52	20.19	3.6	
	80	44	17.15	4.1	
	90	39	15.32	4.5	
	105	34	13.08	4.9	
	114	31	12.14	5.1	
	132	27	10.49	5.9	
	155	23	8.91	7.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.37 KW					
	173	20	7.96	7.6	
	203	17	6.80	8.6	
	217	16	6.37	8.9	
	257	14	5.36	10	
0.55 KW					
WK187 WR97 WKA187 WR97	0.08	55900	16978	0.90	**4P**
	0.10	46500	14272	1.10	
	0.10	42500	13116	1.20	
	0.12	37400	11647	1.35	
	0.19	23900	7343	2.1	
WK167 WR97 WKA167 WR97	0.12	38400	11573	0.85	**4P**
	0.13	33800	10264	0.95	
	0.16	28100	8628	1.15	
	0.21	21400	6562	1.50	
	0.25	17200	5355	1.85	
	0.33	13200	4079	2.4	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	0.20	22400	6881	0.80	**4P**
	0.23	19300	5931	0.95	
	0.34	13000	3979	1.40	
	0.45	9940	3051	1.80	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.31	14900	4423	0.85	**4P**
	0.35	13000	3889	1.00	
	0.41	11100	3311	1.20	
	0.45	10000	3009	1.30	
	0.52	8630	2607	1.50	
	0.71	6560	1926	2.0	
	0.77	5980	1757	2.2	
	0.88	5220	1541	2.5	
	1.0	4570	1342	2.8	
	1.2	3990	1177	3.3	
	1.3	3490	1025	3.7	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	0.46	10100	2977	0.80	**4P**
	0.52	8770	2599	0.90	
	0.59	7690	2286	1.05	
	0.70	6520	1939	1.25	
	0.79	5850	1713	1.35	
	0.87	5310	1554	1.50	
	1.0	4570	1336	1.75	
	1.2	3990	1166	2.0	
	1.3	3450	1030	2.3	
	1.5	3000	904	2.7	
	1.7	2700	793	3.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.55 KW					
	2.0	2360	696	3.4	
	2.2	2050	615	3.9	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	0.95	4880	1430	0.90	**4P**
	1.1	4380	1261	1.00	
	1.2	3820	1102	1.15	
	1.4	3320	957	1.30	
	1.6	2960	855	1.45	
	1.8	2520	743	1.70	
	2.1	2220	652	1.95	
	2.4	1970	573	2.2	
	2.7	1700	504	2.5	
	3.1	1470	437	2.9	
	3.6	1300	382	3.3	
	4.5	1040	305	4.1	
WK87 WR57 WKF87 WR57 WKA87 WR57 WKAF87WR57	1.4	3260	951	0.85	**4P**
	1.6	2860	837	0.95	
	1.9	2480	726	1.10	
	2.1	2190	638	1.25	
	2.4	1920	562	1.40	
	2.9	1620	474	1.65	
	3.2	1450	426	1.85	
	3.7	1260	373	2.1	
	4.1	1110	330	2.4	
	4.6	990	294	2.7	
	5.4	850	250	3.2	
	5.8	800	236	3.4	
	6.8	680	201	4.0	
WK77 WR37 WKF77 WR37 WKA77 WR37 WKAF77 WR37	2.5	1900	552	0.80	**4P**
	2.8	1670	485	0.95	
	3.2	1470	428	1.05	
	3.7	1270	367	1.20	
	4.2	1130	328	1.35	
	4.7	1000	290	1.55	
	5.4	870	252	1.80	
	6.2	760	221	2.0	
	7.0	670	195	2.3	
	7.8	600	175	2.6	
	8.8	530	154	2.9	
WK67 WR37 WKF67 WR37 WKA67 WR37 WKAF67 WR37	4.9	960	279	0.85	**4P**
	5.5	840	246	0.95	
	6.2	745	217	1.10	
	7.1	660	191	1.25	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.55 KW					
	8.2	570	166	1.45	
	9.4	495	144	1.65	
	11	420	122	1.95	
WK57 WR37 WKF57 WR37 WKA57 WR37 WKAF57 WR37	7.1	660	192	0.90	4P
	8.2	575	166	1.05	
	9.4	495	145	1.20	
	11	445	129	1.35	
	12	380	111	1.60	
	14	335	97	1.80	
WK 87 WKF 87 WKA 87 WKAF 87	3.9	1350	174.19	2.0	8P
	4.1	1270	164.34	2.1	
	4.6	1140	147.32	2.4	
WK 87 WKF 87 WKA 87 WKAF 87	4.6	1150	197.37	2.3	6P
	5.2	1020	174.19	2.7	
	5.5	960	164.34	2.8	
	6.1	860	147.33	3.1	
WK 77 WKF 77 WKA 77 WKAF 77	5.0	1040	135.28	1.50	8P
	5.3	990	128.52	1.55	
	6.0	880	113.56	1.75	
	7.0	750	97.05	2.1	
WK 77 WKF 77 WKA 77 WKAF 77	5.8	900	154.02	1.70	6P
	6.7	790	135.28	1.95	
	7.0	750	128.52	2.1	
	7.9	665	113.56	2.3	
WK 77 WKF 77 WKA 77 WKAF 77	8.8	595	154.02	2.6	4P
	10	520	135.28	3.0	
	11	495	128.52	3.1	
	12	440	113.56	3.5	
	14	375	97.05	4.1	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107	7.3	720	123.54	1.15	6P
	8.3	630	108.03	1.30	
	8.8	600	102.62	1.30	
	10	525	90.04	1.55	
	12	445	76.37	1.85	
WK 67 WKF 67 WKA 67 WKAF 67	11	475	123.54	1.70	4P
	13	415	108.03	1.95	
	15	350	90.04	2.4	
	18	295	76.37	2.8	
WK 57 WKF 57 WKA 57 WKAF 57	8.3	630	108.29	0.95	6P
	8.8	600	102.88	1.00	
	10	525	90.26	1.15	
	12	445	76.56	1.35	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.55 KW					
	13	405	69.12	1.50	
	15	355	60.81	1.70	
	16	335	57.42	1.80	
WK 57 WKF 57 WKA 57 WKAF 57	11	480	123.85	1.25	4P
	13	420	108.29	1.45	
	13	395	102.88	1.50	
	15	350	90.26	1.70	
	18	295	76.56	2.0	
	20	265	69.12	2.2	
	22	235	60.81	2.6	
	24	220	57.42	2.7	
WK 47 WKF 47 WKA 47 WKAF 47	13	405	104.37	1.00	4P
	15	350	90.86	1.15	
	16	330	85.12	1.20	
	18	290	75.20	1.40	
	19	270	69.84	1.50	
	21	245	63.30	1.65	
	24	220	56.83	1.80	
	28	189	48.95	2.1	
	30	178	46.04	2.2	
WK 37 WKF 37 WKA 37 WKAF 37	23	225	58.60	0.90	4P
	27	192	49.79	1.05	
	31	172	44.46	1.15	
	36	147	37.97	1.35	
	38	137	35.57	1.45	
	45	116	29.96	1.75	
	47	111	28.83	1.80	
	54	97	24.99	2.1	
	58	90	23.36	2.2	
	67	78	20.19	2.4	
	79	66	17.15	2.7	
	89	59	15.32	3.0	
	104	51	13.08	3.3	
	112	47	12.14	3.4	
	130	4	10.49	4.0	
	153	34	8.91	5.7	
	171	31	7.96	5.1	
	200	26	6.80	5.7	
	214	25	6.37	5.9	
	254	21	5.36	6.8	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.75 KW					
WK187 WR97 WKA187 WR97	0.11	58400	13116	0.85	4P
	0.12	51500	11647	0.95	
	0.19	32800	7343	1.50	
	0.20	30000	6747	1.65	
	0.23	26500	5991	1.90	
WK167 WR97 WKA167 WR97	0.16	38600	8628	0.85	4P
	0.21	29300	6562	1.10	
	0.26	23700	5355	1.35	
	0.34	18200	4079	1.75	
	0.41	15100	3376	2.1	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.42	15100	3311	0.85	4P
	0.46	13700	3009	0.95	
	0.53	11800	2607	1.10	
	0.72	8930	1926	1.45	
	0.79	8150	1757	1.60	
	0.90	7120	1541	1.85	
	1.0	6220	1342	2.1	
	1.2	5440	1177	2.4	
	1.4	4750	1025	2.7	
	1.5	4150	899	3.1	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	0.81	7960	1713	1.10	4P
	0.89	7230	1554	1.10	
	1.10	6210	1336	1.30	
	1.2	5420	1166	1.50	
	1.3	4710	1030	1.70	
	1.5	4120	904	1.95	
	1.7	3680	793	2.2	
	2.0	3210	696	2.5	
	2.2	2800	615	2.8	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	1.2	5180	1102	0.85	6P
	1.4	4490	957	0.95	
	1.6	4020	855	1.05	
	1.6	3430	743	1.25	
	2.1	3020	652	1.40	
	2.4	2680	573	1.60	
	2.7	2320	504	1.85	
	3.2	2010	437	2.1	
	3.6	1770	382	2.4	
	4.5	1420	305	3.0	
	5.4	1190	258	3.6	
	5.9	1080	232	4.0	
	6.9	920	199	4.7	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.75 KW					
WK87 WR57 WKF87 WR57 WKA87 WR57 WKAF87WR57	1.9	3370	726	0.80	4P
	2.2	2970	638	0.90	
	2.5	2610	562	1.05	
	2.9	2200	474	1.25	
	3.2	1980	426	1.35	
	3.7	1720	373	1.55	
	4.2	1520	330	1.80	
	4.7	1350	294	2.0	
	5.5	1160	250	2.3	
	5.8	1100	236	2.5	
	6.9	930	201	2.9	
WK87 WR57 WKF87 WR57 WKA87 WR57 WKAF87WR57	1.9	3370	726	0.80	4P
	2.2	2970	638	0.90	
	2.5	2610	562	1.05	
	2.9	2200	474	1.25	
	3.2	1980	426	1.35	
	3.7	1720	373	1.55	
	4.2	1520	330	1.80	
	4.7	1350	294	2.0	
	5.5	1160	250	2.3	
	5.8	1100	236	2.5	
	6.9	930	201	2.9	
WK77 WR37 WKF77 WR37 WKA77 WR37 WKAF77 WR37	3.8	1720	367	0.90	4P
	4.2	1540	328	1.00	
	4.8	1360	290	1.15	
	5.5	1180	252	1.30	
	6.2	1030	221	1.50	
WK 97 WKF 97 WKA 97 WKAF 97	3.9	1830	176.05	2.3	8P
	4.5	1590	153.21	2.7	
	4.9	1030	140.28	3.0	
WK 87 WKF 87 WKA 87 WKAF 87	4.7	1530	147.32	1.75	8P
	5.4	1320	126.91	2.0	
	6.0	1200	115.82	2.2	
	6.7	1070	102.71	2.5	
WK 87 WKF 87 WKA 87 WKAF 87	5.2	1390	174.19	1.95	6P
	5.5	1310	164.34	2.1	
	6.1	1170	147.32	2.3	
	7.1	1010	126.91	2.7	
WK 87 WKF 87 WKA 87 WKAF 87	7.0	1020	197.37	2.6	4P
	7.9	900	174.19	3.0	
	8.4	850	164.34	3.2	
	9.4	765	147.32	3.5	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.75 KW					
WK 77 WKF 77 WKA 77 WKAF 77	6.7	1080	135.28	1.45	**6P**
	7.0	1020	128.52	1.50	
	7.9	900	113.56	1.70	
	9.3	770	97.05	2.0	
	10	710	88.97	2.2	
WK 77 WKF 77 WKA 77 WKAF 77	9.0	800	154.02	1.45	**4P**
	10	700	135.28	1.50	
	11	665	128.52	1.70	
	12	590	113.56	2.0	
	14	505	97.05	2.2	
WK 67 WKF 67 WKA 67 WKAF 67	11	640	123.54	1.30	**4P**
	13	560	108.03	1.45	
	15	465	90.04	1.75	
	18	395	76.37	2.1	
	20	360	68.95	2.3	
	23	315	60.66	2.6	
	24	295	57.28	2.8	
WK 57 WKF 57 WKA 57 WKAF 57	11	645	123.85	0.95	**4P**
	13	560	108.29	1.05	
	13	535	102.88	1.10	
	15	470	90.26	1.30	
	18	395	76.56	1.50	
	20	360	69.12	1.65	
	23	315	60.81	1.920	
	24	300	57.42	2.0	
	28	255	48.89	2.4	
	31	230	44.43	2.6	
WK 47 WKF 47 WKA 47 WKAF 47	18	390	75.20	1.00	**4P**
	20	365	69.84	1.10	
	22	330	63.30	1.20	
	24	295	56.83	1.35	
	28	255	48.95	1.55	
	30	240	46.04	1.65	
	35	205	39.61	1.95	
	39	184	35.39	2.2	
	44	162	31.30	2.5	
WK 37 WKF 37 WKA 37 WKAF 37	31	230	44.46	0.85	**4P**
	36	197	37.97	1.00	
	39	185	35.57	1.10	
	46	156	29.96	1.30	
	48	150	28.83	1.35	
	55	130	24.99	1.55	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.75 KW					
WK 37 WKF 37 WKA 37 WKAF 37	59	121	23.36	1.60	**4P**
	68	105	20.19	1.75	
	80	89	17.15	2.0	
	90	80	15.32	2.2	
	105	68	13.08	2.4	
	114	63	12.14	2.5	
	132	54	10.49	2.9	
	155	46	8.91	3.5	
	173	41	7.96	3.8	
	203	35	6.80	4.2	
	217	33	6.37	4.4	
	257	28	5.36	5.0	
1.1 KW					
WK187 WR97 WKA187 WR97	0.15	60700	9363	0.80	**4P**
	0.17	52400	8126	0.95	
	0.19	48300	7343	1.05	
	0.21	44300	6747	1.15	
	0.23	39200	5991	1.30	
	0.26	34900	5358	1.45	
	0.29	31200	4817	1.60	
	0.32	28300	4370	1.75	
WK167 WR97 WKA167 WR97	0.26	35000	5355	0.90	**8P**
	0.29	31200	4788	1.05	
	0.34	26800	4079	1.20	
	0.41	22200	3376	1.45	
	0.51	18000	2755	1.80	
	0.64	14600	2182	2.2	
	0.82	11300	1704	2.8	
	0.99	9330	1408	3.4	
	1.1	8560	1296	3.7	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	0.40	22900	3516	0.80	**4P**
	0.46	20100	3051	0.90	
	0.54	16900	2610	1.05	
	0.60	15100	2322	1.20	
	0.84	11000	1659	1.65	
	1.0	8970	1365	2.0	
	1.1	8030	1229	2.2	
	1.3	7150	1093	2.5	
	1.5	6160	942	2.9	
	1.6	5550	854	3.2	
	0.73	13100	1926	1.00	
	0..80	11900	1757	1.10	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.1 KW					
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.91	10400	1541	1.25	**4P**
	1.0	9100	1342	1.45	
	1.2	7960	1177	1.65	
	1.4	6950	1025	1.85	
	1.6	6080	899	2.1	
	1.8	5270	790	2.5	
	2.0	4740	704	2.7	
	2.3	4090	610	3.2	
	2.5	3690	549	3.5	
	2.9	3180	477	4.1	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	1.2	7920	1166	1.00	**4P**
	1.4	6920	1030	1.15	
	1.5	6050	904	1.30	
	1.8	5380	793	1.50	
	2.0	4700	696	1.70	
	2.3	4120	615	1.95	
	2.7	3500	522	2.3	
	3.0	3080	461	2.6	
	3.4	2720	408	2.9	
	3.8	2450	364	3.3	
	4.4	2140	318	3.7	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	1.9	5030	743	0.85	**4P**
	2.2	4420	652	0.95	
	2.4	3910	573	1.10	
	2.8	3400	504	1.25	
	3.2	2940	437	1.45	
	3.7	2590	382	1.65	
	4.1	2300	342	1.85	
WK87 WR57 WKF87 WR57 WKA87 WR57 WKAF87WR57	3.0	3220	474	0.85	**4P**
	3.3	2890	426	0.95	
	3.8	2520	373	1.05	
	4.2	2230	330	1.20	
	4.8	1980	294	1.35	
	5.6	1700	250	1.60	
	5.9	1600	236	1.70	
	7.0	1360	201	2.0	
WK 97 WKF 97 WKA 97 WKAF 97	39	2720	176.05	1.60	**8P**
	4.4	2370	153.21	1.80	
	4.8	2170	140.28	2.0	
	5.5	1910	123.93	2.2	
WK 97 WKF 97	5.2	2010	176.05	2.1	**6P**
	6.0	1750	153.21	2.5	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.1 KW					
WKA 97 WKAF 97	6.6	1600	140.28	2.7	**6P**
	7.4	1420	123.93	3.0	
WK 97 WKF 97 WKA 97 WKAF 97	7.9	1320	176.05	3.3	**4P**
	9.1	1150	153.21	3.7	
	10	1050	140.28	4.1	
WK 87 WKF 87 WKA 87 WKAF 87	5.3	1990	174.19	1.35	**6P**
	5.6	1880	164.34	1.45	
	6.2	1680	147.33	1.60	
	7.2	1450	126.91	1.85	
WK 87 WKF 87 WKA 87 WKAF 87	8.0	1310	174.19	2.1	**4P**
	8.5	1230	164.34	2.2	
	9.5	1110	147.32	2.4	
	11	950	126.91	2.8	
	12	870	115.82	3.1	
WK 77 WKF 77 WKA 77 WKAF 77	6.8	1540	135.28	1.00	**6P**
	7.2	1470	128.52	1.05	
	8.1	1300	113.56	1.20	
	9.5	1110	97.05	1.40	
WK 77 WKF 77 WKA 77 WKAF 77	10	1020	135.28	1.55	**4P**
	11	960	128.52	1.60	
	12	850	113.56	1.80	
	14	730	97.05	2.1	
	16	670	88.97	2.3	
	18	585	78.07	2.7	
	19	555	73.99	2.8	
WK 67 WKF 67 WKA 67 WKAF 67	13	810	108.03	1.00	**4P**
	14	770	102.62	1.05	
	16	675	90.04	1.20	
	18	575	76.37	1.45	
	20	515	68.95	1.60	
	23	455	60.66	1.80	
	24	430	57.28	1.90	
	29	365	48.77	2.2	
	32	335	44.32	2.5	
	36	290	38.39	2.8	
WK 57 WKF 57 WKA 57 WKAF 57	16	675	90.26	0.90	**4P**
	18	575	76.56	1.05	
	20	520	69.12	1.15	
	23	455	60.81	1.30	
	24	430	57.42	1.40	
	29	365	48.89	1.65	
	32	335	44.43	1.80	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.1 KW					
WK107 WR77 WKF107 WR77 WKA107 WR77	58	181	24.05	3.3	**4P**
	62	170	22.71	3.5	
	72	145	19.34	4.0	
	80	132	17.57	4.2	
	92	114	15.22	4.7	
	106	99	13.25	5.1	
	117	90	11.92	4.6	
	124	85	11.26	4.9	
	146	72	9.59	5.6	
	161	65	8.71	6.0	
	186	57	7.55	6.4	
	213	49	6.57	7.0	
WK 47 WKF 47 WKA 47 WKAF 47	25	425	56.83	0.95	**4P**
	29	265	48.95	1.10	
	30	345	46.04	1.15	
	35	295	39.61	1.35	
	40	265	35.39	1.50	
	45	235	31.30	1.70	
	48	220	29.32	1.80	
	54	194	25.91	2.1	
	64	164	21.81	2.4	
	72	147	19.58	2.7	
WK 37 WKF 37 WKA 37 WKAF 37	47	225	29.96	0.90	**4P**
	56	188	24.99	1.05	
	60	175	23.36	1.10	
	69	152	20.19	1.20	
	82	129	17.15	1.40	
	91	115	15.32	1.50	
	107	98	13.08	1.70	
	115	91	12.14	1.75	
	133	79	10.49	2.0	
	157	67	8.91	2.4	
	176	60	7.96	2.6	
	206	51	6.80	2.9	
	220	48	6.37	3.0	
	261	40	5.36	3.5	
1.5 KW					
WK187 WR97 WKA187 WR97	0.21	60700	6747	0.80	**4P**
	0.24	53700	5991	0.95	
	0.26	47900	5358	1.05	
	0.29	42900	4817	1.15	
	0.32	38900	4370	1.30	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.5 KW					
	0.39	33000	3609	1.50	
	0.46	27800	3062	1.80	
	0.56	22800	2519	2.2	
	0.62	20400	2268	2.5	
WK167 WR97 WKA167 WR97	0.35	36700	4079	0.85	**4P**
	0.42	30400	3376	1.05	
	0.51	24700	2755	1.30	
	0.65	19900	2182	1.60	
	0.83	15500	1704	2.1	
	1.0	12800	1408	2.5	
	1.1	11800	1296	2.7	
WK 77 WKF 77 WKA 77 WKAF 77	0.61	20700	2322	0.85	**4P**
	0.85	15100	1659	1.20	
	1.0	12300	1365	1.45	
	1.1	11100	1229	1.65	
	1.3	9840	1093	1.85	
	1.5	8480	942	2.1	
	1.6	7650	854	2.3	
	2.5	5050	567	3.6	
	2.8	4490	504	4.0	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	2.6	4820	536	2.7	**4P**
	3.4	3770	418	3.5	
	3.8	3330	367	3.9	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	0.80	16200	1757	0.80	**4P**
	0.91	14200	1541	0.90	
	1.0	12400	1342	1.05	
	1.2	10900	1177	1.20	
	1.4	9470	1025	1.35	
	1.6	8300	899	1.55	
	1.8	7210	790	1.80	
	2.0	6480	704	2.0	
	2.3	5590	610	2.3	
	2.6	5040	549	2.6	
	3.0	4360	477	3.0	
	3.4	3840	418	3.4	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	1.4	9460	1030	0.85	**4P**
	1.6	8280	904	0.95	
	1.8	7330	793	1.10	
	2.0	6420	696	1.25	
	2.3	5640	615	1.40	
	2.7	4780	522	1.65	
	3.1	4210	461	1.90	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.5 KW					
	3.5	3720	408	2.2	
	3.9	3350	364	2.4	
	4.4	2920	318	2.7	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	2.5	5320	573	0.80	4P
	2.8	4650	504	0.95	
	3.2	4020	437	1.05	
	3.7	3540	382	1.20	
	4.1	3140	342	1.35	
	4.6	2820	305	1.50	
	5.5	2380	258	1.80	
	6.1	2140	232	2.0	
	7.1	1840	199	2.3	
WK 47 WKF 47 WKA 47 WKAF 47	25	425	56.83	0.95	4P
	29	265	48.95	1.10	
	30	345	46.04	1.15	
	35	295	39.61	1.35	
	40	265	35.39	1.50	
	45	235	31.30	1.70	
	48	220	29.32	1.80	
	54	194	25.91	2.1	
	64	164	21.81	2.4	
	72	147	19.58	2.7	
WK87 \WR57 WKF87 WR57 WKA87 WR57 WKAF87WR57	4.3	3040	330	0.90	4P
	4.8	2700	294	1.00	
	5.6	2310	250	1.15	
	6.0	2180	236	1.25	
	7.0	1860	201	1.45	
	7.7	1690	183	1.60	
WK 107 WKF 107 WKA 107 WKAF 107	4.9	2940	143.47	2.7	8P
	5.8	2490	121.46	3.2	
	6.2	2300	112.41	3.5	
WK 97 WKF 97 WKA 97 WKAF 97	4.6	3140	153.21	1.35	8P
	5.0	2870	140.28	1.50	
	5.7	2540	123.93	1.70	
WK 97 WKF 97 WKA 97 WKAF 97	5.2	2740	176.05	1.55	6P
	6.0	2390	153.21	1.80	
	6.6	2180	140.28	1.95	
	7.4	1930	123.93	2.2	
WK 97 WKF 97 WKA 97 WKAF 97	8.0	1790	176.05	2.4	4P
	9.2	1560	153.21	2.8	
	10	1430	140.28	3.0	
	11	1260	123.93	3.4	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.5 KW					
WK 87 WKF 87 WKA 87 WKAF 87	6.2	2290	147.33	1.20	6P
	7.2	1980	126.91	1.35	
	7.9	1800	115.82	1.50	
	9.0	1600	102.71	1.70	
WK 87 WKF 87 WKA 87 WKAF 87	8.1	1770	174.19	1.55	4P
	8.6	1670	164.34	1.60	
	9.6	1500	147.32	1.80	
	11	1290	126.91	2.1	
	12	1180	115.82	2.3	
	14	1040	102.71	2.6	
	16	880	86.34	3.1	
WK 77 WKF 77 WKA 77 WKAF 77	8.1	1770	113.56	0.90	6P
	9.5	1510	97.05	1.05	
	10	1390	88.97	1.10	
	12	1220	78.07	1.30	
WK 77 WKF 77 WKA 77 WKAF 77	10	1370	135.28	1.15	4P
	11	1310	128.52	1.20	
	12	1150	113.56	1.35	
	15	990	97.05	1.55	
	16	900	88.97	1.70	
	18	795	78.07	1.95	
	19	750	73.99	2.1	
	22	660	64.76	2.4	
	24	595	58.34	2.6	
	28	520	51.18	3.0	
	31	460	45.16	3.4	
	35	405	40.04	3.8	
WK 67 WKF 67 WKA 67 WKAF 67	16	910	90.04	0.90	4P
	18	775	76.37	1.05	
	20	700	68.95	1.15	
	23	615	60.66	1.35	
	25	580	57.28	1.40	
	29	495	48.77	1.65	
	32	450	44.32	1.80	
	37	390	38.39	2.0	
	40	360	35.62	2.3	
	47	305	30.22	2.7	
	52	275	27.28	3.0	
	59	245	24.00	3.3	
WK 57 WKF 57 WKA 57 WKAF 57	23	620	60.81	0.95	4P
	25	585	57.42	1.05	
	29	495	48.89	1.20	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.5 KW					
WK 57 WKF 57 WKA 57 WKAF 57	32	450	44.43	1.35	4P
	37	390	38.49	1.55	
	39	365	35.70	1.65	
	47	310	30.28	1.95	
	52	280	27.34	2.2	
	59	245	24.05	2.5	
	62	230	22.71	2.6	
	73	196	19.34	2.9	
WK 47 WKF 47 WKA 47 WKAF 47	36	400	39.61	1.00	4P
	40	360	35.39	1.10	
	45	320	31.30	1.25	
	48	300	29.32	1.35	
	54	265	25.91	1.50	
	65	220	21.81	1.80	
	72	199	19.58	2.0	
	84	171	16.86	2.2	
	89	161	15.86	2.4	
	103	139	13.65	2.6	
	116	124	12.19	2.8	
	120	120	11.77	2.3	
WK 37 WKF 37 WKA 37 WKAF 37	60	235	23.36	0.80	4P
	70	205	20.19	0.90	
	82	174	17.15	1.05	
	92	156	15.32	1.10	
	108	133	13.08	1.25	
	116	123	12.14	1.30	
	134	107	10.49	1.50	
	158	91	8.91	1.75	
	177	81	7.96	1.90	
	207	69	6.80	2.2	
	221	65	6.37	2.2	
	263	55	5.36	2.6	
2.2 KW					
WK 97 WKF 97 WKA 97 WKAF 97	0.32	57900	4370	0.85	4P
	0.50	37000	2818	1.35	
	0.39	48800	3609	1.00	
	0.46	41300	3062	1.20	
	0.56	33800	2519	1.50	
	0.62	30400	2268	1.65	
	0.69	27400	2054	1.80	
	0.77	24200	1821	2.1	
	0.88	21400	1605	2.3	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
2.2 KW					
WK167 WR97 WKA167 WR97	0.51	36600	2755	0.85	4P
	0.62	29800	2263	1.05	
	0.65	29500	2182	1.10	
	0.83	22900	1704	1.40	
	1.0	19000	1408	1.70	
	1.1	17400	1296	1.85	
	1.3	14700	1101	2.2	
	1.5	12600	944	2.5	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	0.85	22400	1659	0.80	4P
	1.0	18300	1365	1.00	
	1.1	16500	1229	1.10	
	1.3	14600	1093	1.25	
	1.5	12600	942	1.45	
	1.6	11400	854	1.65	
	1.9	9990	756	1.80	
WK127 WR87 WKF127 WR87 WKA127 WR87 WKAF127 WR87	2.6	7180	536	1.80	4P
	3.0	6310	473	2.1	
	3.4	5600	418	2.3	
	3.8	4950	367	2.6	
	4.3	4440	330	2.9	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	1.4	14000	1025	0.95	4P
	1.6	12200	899	1.05	
	1.8	10700	790	1.20	
	2.0	9580	704	1.35	
	2.3	8280	610	1.55	
	2.6	7460	549	1.75	
	3.0	6460	477	2.0	
	3.4	5680	418	2.3	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	2.3	8340	615	0.95	4P
	2.7	7070	522	1.15	
	3.1	6230	461	1.30	
	3.5	5520	408	1.45	
	3.9	4940	364	1.60	
	4.4	4320	318	1.85	
	4.9	3890	286	2.1	
	5.6	3410	251	2.3	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	3.7	5210	382	0.80	4P
	4.1	4640	342	0.95	
	4.6	4170	305	1.05	
	5.5	3510	258	1.20	
	6.1	3160	232	1.35	
	7.1	2710	199	1.60	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
2.2 KW					
WK 107 WKF 107 WKA 107 WKAF 107	4.9	4310	143.47	1.85	**8P**
	5.8	3650	121.46	2.2	
	6.2	3370	112.41	2.4	
	6.9	3020	100.75	2.7	
WK 97 WKF 97 WKA 97 WKAF 97	6.1	3420	153.21	1.25	**4P**
	6.7	3140	140.28	1.35	
	7.6	2770	123.93	1.55	
	8.9	2350	105.13	1.85	
WK 97 WKF 97 WKA 97 WKAF 97	8.0	2620	176.05	1.65	**4P**
	9.2	2280	153.21	1.90	
	10	2090	140.28	2.1	
	11	1850	123.93	2.3	
	13	1570	105.13	2.8	
	15	1440	96.80	3.0	
WK 87 WKF 87 WKA 87 WKAF 87	9.6	2200	147.32	1.25	**4P**
	11	1890	126.91	1.45	
	12	1730	115.82	1.55	
	14	1530	102.71	1.75	
	16	1290	86.34	2.1	
	18	1180	79.34	2.3	
	20	1050	70.46	2.6	
	22	940	63.00	2.9	
WK 77 WKF 77 WKA 77 WKAF 77	12	1690	113.56	0.90	**4P**
	15	1450	97.05	1.05	
	16	1330	88.97	1.15	
	18	1160	78.07	1.35	
	19	1100	73.99	1.40	
	22	960	64.76	1.60	
	24	870	58.34	1.80	
	28	765	51.18	2.0	
	31	675	45.16	2.3	
	35	595	40.04	2.6	
	40	525	35.19	**3.0**	
	46	460	30.88	3.4	
	48	435	29.26	3.6	
	55	380	25.61	4.1	
WK 67 WKF 67 WKA 67 WKAF 67	23	900	60.66	0.90	**4P**
	25	850	57.28	0.95	
	29	725	48.77	1.15	
	32	660	44.32	1.25	
	37	570	38.39	1.40	
	40	530	35.61	1.55	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
2.2 KW					
WK 67 WKF 67 WKA 67 WKAF 67	47	450	30.21	1.80	**4P**
	52	405	27.27	2.0	
	59	360	23.99	2.2	
	62	340	22.66	2.3	
	73	285	19.29	2.6	
	80	260	17.53	2.8	
	93	225	15.19	3.1	
	107	197	13.22	3.4	
	113	186	12.48	2.8	
	133	158	10.63	3.2	
	146	144	9.66	3.3	
	169	125	8.37	3.5	
	194	109	7.28	3.9	
WK 57 WKF 57 WKA 57 WKAF 57	32	660	44.43	0.90	**4P**
	37	575	38.49	1.05	
	39	530	35.70	1.15	
	47	450	30.28	1.35	
	52	405	27.34	1.45	
	59	360	24.05	1.65	
	62	340	22.71	1.75	
	73	290	19.34	2.0	
	80	260	17.57	2.1	
	93	225	15.22	2.4	
	106	197	13.25	2.6	
	118	178	11.92	2.3	
	125	168	11.26	2.5	
WK 47 WKF 47 WKA 47 WKAF 47	54	385	25.91	1.05	**4P**
	65	325	21.81	1.25	
	72	290	19.58	1.35	
	84	250	16.86	1.50	
	89	235	15.86	1.60	
	103	205	13.65	1.75	
	116	182	12.19	1.95	
	120	175	11.77	1.60	
	133	157	10.56	1.80	
	155	136	9.10	2.1	
WK 37 WKF 37 WKA 37 WKAF 37	108	195	13.08	0.85	**4P**
	134	156	10.49	1.00	
	158	133	8.91	1.20	
	177	119	7.96	1.30	
	207	101	6.80	1.50	
	221	95	6.37	1.55	
	263	80	5.36	1.75	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
3.0 KW					
WK187 WR97 WKA187 WR97	0.50	51300	2818	0.95	**4P**
	0.46	57100	3062	0.90	
	0.56	46800	2519	1.05	
	0.62	42100	2268	1.20	
	0.68	38000	2054	1.30	
	0.77	33600	1821	1.50	
	0.85	29700	1605	1.70	
	1.0	25600	1395	1.95	
	1.2	22100	1196	2.3	
WK167 WR97 WKA167 WR97	0.82	31700	1704	1.00	**4P**
	0.99	26200	1408	1.20	
	1.1	24100	1296	1.35	
	1.3	20300	1101	1.55	
	1.5	17500	944	1.85	
	1.7	15500	843	2.1	
	1.9	14000	757	2.3	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	1.1	22800	1229	0.80	**4P**
	1.3	20300	1093	0.90	
	1.5	17500	942	1.05	
	1.6	15800	854	1.15	
	1.9	13900	756	1.30	
	2.5	10500	567	1.70	
	2.8	9310	504	1.95	
WK127 WR87 WKF127 WR87 WKA127 WR87 WKAF127 WR87	2.6	9940	536	1.30	**4P**
	3.0	8750	473	1.50	
	3.3	7760	418	1.70	
	3.8	6840	367	1.90	
	4.2	6140	330	2.1	
	4.9	5300	287	2.5	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	1.8	14800	790	0.90	**4P**
	2.0	13200	704	1.00	
	2.3	11400	610	1.15	
	2.5	10300	549	1.25	
	2.9	8920	477	1.45	
	3.3	7840	418	1.65	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	3.0	8610	461	0.95	**4P**
	3.4	7620	408	1.05	
	3.8	6820	364	1.15	
	4.4	5960	318	1.35	
	4.9	5370	286	1.50	
	5.6	4700	251	1.70	
	6.3	4150	222	1.95	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
3.0 KW					
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	6.3	4150	222	1.95	**4P**
	7.1	3670	196	2.2	
	8.1	3250	174	2.2	
	9.1	2880	154	2.5	
	10	2610	140	2.8	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	5.4	4840	258	0.90	**4P**
	6.0	4360	232	1.00	
	7.0	3740	199	1.15	
WK 107 WKF 107 WKA 107 WKAF 107	5.0	5710	143.47	1.40	**8P**
	5.9	4830	121.46	1.65	
	6.4	4470	112.41	1.80	
	7.2	4010	100.75	2.0	
	7.9	3620	90.96	2.2	
WK 107 WKF 107 WKA 107 WKAF 107	6.6	4370	143.47	1.85	**6P**
	7.7	3700	121.46	2.2	
	8.4	3430	112.41	2.3	
	9.3	3070	100.75	2.6	
WK 107 WKF 107 WKA 107 WKAF 107	9.8	2940	143.47	2.7	**4P**
	12	2490	121.46	3.2	
WK 97 WKF 97 WKA 97 WKAF 97	7.6	3780	123.93	1.15	**6P**
	8.9	3200	105.13	1.35	
	9.7	2950	96.80	1.45	
	11	2640	86.52	1.65	
WK 97 WKF 97 WKA 97 WKAF 97	7.9	3600	176.05	1.20	**4P**
	9.1	3140	153.21	1.35	
	10	2870	140.28	1.50	
	11	2540	123.93	1.70	
	13	2150	105.13	2.0	
	14	1980	96.80	2.2	
	16	1770	86.52	2.4	
	18	1590	77.89	2.7	
	20	1440	70.54	3.0	
	22	1280	62.55	3.4	
	25	1160	56.55	3.7	
WK 87 WKF 87 WKA 87 WKAF 87	9.5	3010	147.33	0.90	**4P**
	11	2600	126.91	1.05	
	12	2370	115.82	1.15	
	14	2100	102.71	1.30	
	16	1770	86.34	1.55	
	18	1620	79.34	1.65	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
3.0 KW					
WK 87 WKF 87 WKA 87 WKAF 87	20	1440	70.46	1.85	**4P**
	22	1290	63.00	2.1	
	25	1160	56.64	2.3	
	28	1010	49.16	2.7	
	32	900	44.02	2.9	
	38	745	36.52	3.3	
WK 77 WKF 77 WKA 77 WKAF 77	16	1820	88.97	0.85	**4P**
	18	1600	78.07	0.95	
	19	1510	73.99	1.00	
	22	1330	64.76	1.15	
	24	1190	58.34	1.30	
	27	1050	51.18	1.50	
	31	920	45.16	1.70	
	35	820	40.04	1.90	
	40	720	35.19	2.2	
	45	630	30.88	2.5	
WK 67 WKF 67 WKA 67 WKAF 67	32	910	44.32	0.90	**4P**
	36	785	38.39	1.00	
	39	730	35.61	1.15	
	46	620	30.21	1.35	
	51	560	27.27	1.45	
	58	490	23.99	1.65	
	62	465	22.66	1.70	
	73	395	19.29	1.95	
	80	360	17.53	2.1	
	92	310	15.19	2.2	
	106	270	13.22	2.5	
	112	255	12.48	2.1	
	132	220	10.63	2.3	
	145	198	9.66	2.4	
WK 57 WKF 57 WKA 57 WKAF 57	46	620	30.28	0.95	**4P**
	51	560	27.34	1.05	
	58	490	24.05	1.20	
	62	465	22.71	1.30	
	72	395	19.34	1.45	
	80	360	17.57	1.55	
	92	310	15.22	1.70	
	106	270	13.25	1.90	
	117	245	11.92	1.70	
	124	230	11.26	1.80	
	146	196	9.59	2.1	
	161	178	8.71	2.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
3.0 KW					
	186	154	7.55	2.4	
	213	134	6.57	2.6	
WK 47 WKF 47 WKA 47 WKAF 47	72	400	19.58	1.00	**4P**
	83	345	16.86	1.10	
	88	325	15.86	1.15	
	103	280	13.65	1.30	
	115	250	12.19	1.40	
	119	240	11.77	1.15	
	133	215	10.56	1.30	
	154	186	9.10	1.50	
	164	175	8.56	1.55	
	190	151	7.36	1.65	
	213	135	6.58	1.80	
	241	119	5.81	1.95	
WK 37 WKF 37 WKA 37 WKAF 37	157	182	8.91	0.90	**4P**
	176	163	7.96	0.95	
	206	139	6.80	1.10	
	220	130	6.37	1.10	
	261	110	5.36	1.30	
4.0 KW					
WK187 WR107 WKA187 WR107	1.7	20300	835	2.5	**4P**
	2.7	12600	520	4.0	
WK187 WR97 WKA187 WR97	0.56	61900	2519	0.80	**4P**
	0.63	55600	2268	0.90	
	0.69	50300	2054	1.00	
	0.78	44500	1821	1.10	
	0.88	39300	1605	1.25	
WK187 WR97 WKA187 WR97	1.0	34000	1395	1.45	**4P**
	1.2	29200	1196	1.70	
	1.4	25600	1046	1.95	
	1.5	23100	945	2.2	
WK167 WR97 WKA167 WR97	1.0	34600	1408	0.90	**4P**
	1.1	31900	1296	1.00	
	1.3	26900	1101	1.20	
	1.5	23100	944	1.40	
	1.7	20500	843	1.55	
	1.9	18500	757	1.75	
	2.2	15400	632	2.1	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	1.7	20900	854	0.85	**4P**
	1.9	18400	756	1.00	
	2.5	13800	567	1.30	
	2.8	12300	504	1.45	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
4.0 KW					
	3.3	10600	434	1.70	
WK127 WR87 WKF127 WR87 WKA127 WR87 WKAF127 WR87	2.7	13100	536	1.00	**4P**
	3.0	11600	473	1.10	
	3.4	10300	418	1.25	
	3.9	9040	367	1.45	
	4.3	8120	330	1.60	
	5.0	7010	287	1.85	
	5.6	6200	253	2.1	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	2.3	15100	610	0.85	**4P**
	2.6	13600	549	0.95	
	3.0	11800	477	1.10	
	3.4	10300	418	1.25	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	3.9	8990	364	0.90	**4P**
	4.5	7860	318	1.00	
	5.0	7080	286	1.15	
	5.7	6200	251	1.30	
	6.4	5470	222	1.45	
	7.2	4840	196	1.65	
	8.2	4290	174	1.70	
	9.2	3800	154	1.90	
	10	3440	140	2.1	
WK97 WR57 WKF97 WR57 WKA97 WR57 WKAF97 WR57	7.1	4930	199	0.85	**4P**
WK 127 WKF 127 WKA 127 WKAF 127	5.3	5810	136.35	1.80	**8P**
	5.9	5420	122.67	2.0	
	6.5	4870	110.35	2.2	
WK 127 WKF 127 WKA 127 WKAF 127	6.6	5810	146.30	2.2	**6P**
	7.1	5420	136.35	2.4	
	7.8	4870	122.67	2.7	
	8.7	4380	110.35	3.0	
WK 107 WKF 107 WKA 107 WKAF 107	6.4	5960	112.41	1.35	**8P**
	7.2	5340	100.75	1.50	
	7.9	4830	90.96	1.65	
	8.7	4380	82.61	1.85	
WK 107 WKF 107 WKA 107 WKAF 107	6.7	5710	143.47	1.40	**6P**
	7.9	4830	121.46	1.65	
	8.5	4470	100.75	1.80	
	9.5	4010	112.41	2.0	
	11	3620	90.96	2.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
4.0 KW					
WK 107 WKF 107 WKA 107 WKAF 107	9.9	3860	143.47	2.1	**4P**
	12	3270	121.46	2.5	
	13	3020	112.41	2.7	
	14	2710	100.75	3.0	
	16	2450	90.96	3.3	
	17	2220	82.61	3.6	
	19	1970	73.30	4.1	
WK 97 WKF 97 WKA 97 WKAF 97	9.3	4120	153.21	1.05	**4P**
	10	3770	140.28	1.15	
	11	3330	123.93	1.30	
	14	2830	105.13	1.50	
	15	2600	96.80	1.65	
	16	2330	86.52	1.85	
	18	2100	77.89	2.0	
	20	1900	70.54	2.3	
WK 87 WKF 87 WKA 87 WKAF 87	12	3120	115.82	0.85	**4P**
	14	2760	102.71	1.00	
	16	2320	86.34	1.15	
	18	2130	79.34	1.25	
	20	1900	70.46	1.40	
	23	1690	63.00	1.60	
	25	1520	56.64	1.75	
	29	1320	49.16	2.0	
	32	1180	44.02	2.2	
	39	980	36.52	2.5	
WK 77 WKF 77 WKA 77 WKAF 77	22	1740	64.76	0.90	**4P**
	24	1570	58.34	1.00	
	28	1380	51.18	1.15	
	31	1210	45.16	1.30	
	35	1080	40.04	1.45	
	37	1030	38.39	1.45	
	40	950	35.19	1.65	
	46	830	30.88	1.85	
	49	785	29.26	1.95	
	55	690	25.61	2.2	
	62	620	23.08	2.5	
	70	545	20.24	2.8	
WK 67 WKF 67 WKA 67 WKAF 67	47	810	30.21	1.00	**4P**
	52	735	27.27	1.10	
	59	645	23.99	1.25	
	63	610	22.66	1.30	
	74	520	19.29	1.45	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
4.0 KW					
WK 67 WKF 67 WKA 67 WKAF 67	81	470	17.53	1.55	4P
	94	410	15.19	1.70	
	107	355	13.22	1.90	
	114	335	12.48	1.60	
	134	285	10.63	1.75	
	147	260	9.66	1.85	
	170	225	8.37	1.95	
	195	196	7.28	2.1	
WK 57 WKF 57 WKA 57 WKAF 57	59	645	24.05	0.95	4P
	63	610	22.71	1.00	
	73	520	19.34	1.10	
	81	475	17.57	1.15	
	93	410	15.22	1.30	
	107	355	13.25	1.45	
	119	320	11.92	1.30	
	126	305	11.26	1.35	
	148	260	9.59	1.55	
	163	235	8.71	1.65	
	188	205	7.55	1.80	
	216	177	6.57	1.95	
5.5 KW					
WK187 WR97 WKA187 WR97	0.79	61100	1821	0.80	4P
	0.89	53900	1605	0.95	
	1.0	46700	1395	1.05	
	1.2	40100	1196	1.25	
	1.4	35100	1046	1.45	
	1.5	31700	945	1.60	
	1.9	24800	738	2.0	
	2.3	20800	621	2.4	
WK167 WR97 WKA167 WR97	1.3	36900	1101	0.85	4P
	1.5	31700	944	1.00	
	1.7	28200	843	1.15	
	1.9	25400	757	1.25	
	2.3	21200	632	1.50	
	2.5	18700	561	1.70	
	3.0	16100	481	2.0	
	3.4	14100	423	2.3	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	2.2	22100	661	0.80	4P
	2.5	19000	567	0.95	
	2.8	16900	504	1.05	
	3.3	14500	434	1.25	
	3.8	12700	379	1.40	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
5.5 KW					
	4.3	11100	333	1.60	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	3.4	14100	418	0.90	4P
	3.9	12400	367	1.05	
	4.3	11100	330	1.15	
	5.0	9620	287	1.35	
	5.6	8510	253	1.55	
	6.7	7150	213	1.80	
	7.1	6740	200	1.80	
	8.6	5580	166	2.2	
	9.8	4920	147	2.4	
WK107 WR77 WKF107 WR77 WKA107 WR77 WKAF107 WR77	6.4	7490	222	1.05	4P
	7.3	6640	196	1.20	
	8.2	5870	174	1.25	
	9.3	5200	154	1.40	
	10	4720	140	1.55	
WK 157 WKF 157 WKA 157 WKAF 157	4.7	11100	150.41	1.60	8P
	5.8	9050	122.39	2.0	
	7.1	7410	100.22	2.4	
	7.8	6780	91.65	2.7	
WK 127 WKF 127 WKA 127 WKAF 127	5.2	10100	136.35	1.30	8P
	5.8	9060	122.67	1.45	
	6.4	8150	110.35	1.60	
	7.9	6650	90.03	1.95	
WK 127 WKF 127 WKA 127 WKAF 127	7.1	7450	136.35	1.75	6P
	7.8	6700	122.67	1.95	
	8.7	6030	110.35	2.2	
	11	4920	90.03	2.6	
WK 107 WKF 107 WKA 107 WKAF 107	8.5	6150	112.41	1.30	6P
	9.5	5510	100.75	1.45	
	11	4980	90.96	1.60	
	12	4520	82.61	1.75	
WK 107 WKF 107 WKA 107 WKAF 107	10	5270	143.47	1.50	4P
	12	4460	121.46	1.80	
	13	4130	112.41	1.95	
	14	3700	100.75	2.2	
	16	3340	90.96	2.4	
	17	3030	82.61	2.6	
WK 97 WKF 97 WKA 97 WKAF 97	12	4550	123.93	0.95	4P
	14	3860	105.13	1.10	
	15	3560	93.80	1.20	
	17	3180	86.52	1.35	
	18	2860	77.89	1.50	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
5.5 KW					
WK 97 WKF 97 WKA 97 WKAF 97	20	2590	70.54	1.65	**4P**
	23	2300	62.55	1.85	
	25	2080	56.55	2.1	
	30	1760	47.93	2.4	
WK 87 WKF 87 WKA 87 WKAF 87	17	3170	86.34	0.85	**4P**
	18	2910	79.34	0.95	
	20	2590	70.46	1.05	
	23	2310	63.00	1.15	
	25	2080	56.64	1.30	
	29	1810	49.16	1.50	
	32	1620	44.02	1.60	
	39	1340	36.52	1.85	
	46	1150	31.38	2.3	
	51	1020	27.87	2.5	
WK 77 WKF 77 WKA 77 WKAF 77	32	1660	45.16	0.95	**4P**
	36	1470	40.04	1.05	
	46	1130	30.88	1.35	
	49	1070	29.26	1.45	
	56	940	25.61	1.65	
	62	850	23.08	1.85	
	71	745	20.24	2.0	
	80	655	17.86	2.2	
	90	580	15.84	2.4	
	106	495	13.52	2.7	
	116	455	12.33	2.2	
	132	400	10.81	2.5	
WK 67 WKF 67 WKA 67 WKAF 67	60	880	23.99	0.90	**4P**
	63	830	22.66	0.95	
	74	710	19.29	1.05	
	82	645	17.53	1.15	
	94	560	15.19	1.25	
	108	485	13.22	1.40	
	115	460	12.48	1.15	
	135	390	10.63	1.30	
	148	355	9.66	1.35	
	171	305	8.37	1.45	
	196	265	7.28	1.55	
WK 57 WKF 57 WKA 57 WKAF 57	81	645	17.57	0.85	**4P**
	94	560	15.22	0.95	
	108	485	13.25	1.05	
	120	440	11.92	1.95	
	127	415	11.26	1.00	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
5.5 KW					
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127	149	35	9.59	1.15	**4P**
	164	320	8.71	1.20	
	190	275	7.55	1.30	
	218	240	6.57	1.45	
7.5 KW					
WK187 WR107 WKA187 WR107	1.7	38200	835	1.30	**4P**
	2.0	33300	729	1.50	
	2.3	28400	622	1.75	
WK187 WR97 WKA187 WR97	1.2	55000	1196	0.90	**4P**
	1.4	48000	1046	1.05	
	1.5	43400	945	1.15	
	1.9	33900	738	1.45	
	2.3	28500	621	1.75	
	2.7	24100	527	2.1	
WK167 WR97 WKA167 WR97	1.7	38700	843	0.85	**4P**
	1.9	34700	757	0.90	
	2.3	29000	632	1.10	
	2.5	25700	561	1.25	
	3.0	22100	481	1.45	
	3.4	19400	423	1.65	
	3.9	16900	369	1.90	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	3.3	19900	434	0.90	**4P**
	3.8	17400	379	1.05	
	4.3	15300	333	1.20	
	4.9	13300	291	1.35	
WK127 WR77 WKF127 WR77 WKA127 WR77 WKAF127 WR77	4.3	15200	330	0.85	**4P**
	5.0	13200	287	1.00	
	5.6	11600	253	1.10	
	6.7	9790	213	1.35	
	7.1	9220	200	1.30	
	8.6	7640	166	1.55	
	9.8	6740	147	1.80	
WK 167 WKF 167 WKA 167 WKAF 167	4.4	16400	164.50	1.95	**8P**
	5.3	13400	134.99	2.4	
WK 167 WKF 167 WKA 167 WKAF 167	5.8	12300	164.50	2.6	**6P**
	7.1	10100	134.99	3.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
7.5 KW					
WK 157 WKF 157 WKA 157 WKAF 157	6.4	11200	150.41	1.60	**6P**
	7.8	9130	122.39	1.95	
	9.6	7480	100.22	2.4	
	10	6840	91.65	2.6	
	12	5950	79.65	3.0	
WK 127 WKF 127 WKA 127 WKAF 127	7.1	10200	136.35	1.30	**6P**
	7.8	9140	122.67	1.40	
	8.7	8220	110.35	1.60	
	11	6710	90.03	1.95	
WK 127 WKF 127 WKA 127 WKAF 127	9.8	7320	146.30	1.80	**4P**
	11	6820	136.35	1.90	
	12	6130	122.67	2.1	
	13	5520	110.35	2.4	
	16	4500	90.03	2.9	
	17	4110	82.11	3.2	
	20	3550	71.06	3.7	
WK 107 WKF 107 WKA 107 WKAF 107	10	7190	143.47	1.10	**4P**
	12	6080	121.46	1.30	
	13	5630	112.41	1.40	
	14	5050	100.75	1.60	
	16	4560	90.96	1.75	
	17	4140	82.61	1.95	
	20	3670	73.30	2.2	
	22	3330	66.52	2.4	
	25	2860	57.17	2.8	
	29	2500	49.90	3.1	
	34	2120	42.33	3.5	
	39	1850	37.00	3.9	
WK 97 WKF 97 WKA 97 WKAF 97	15	4850	96.80	0.90	**4P**
	17	4330	86.52	1.00	
	18	3900	77.89	1.10	
	20	3530	70.54	1.20	
	23	3130	62.55	1.35	
WK 97 WKF 97 WKA 97 WKAF 97	25	2830	56.55	1.50	**4P**
	30	2400	47.93	1.80	
	34	2100	41.87	2.0	
	37	1920	38.29	2.2	
	42	1710	34.22	2.5	
WK 87 WKF 87 WKA 87 WKAF 87	23	3160	63.00	0.85	**4P**
	25	2840	56.64	0.95	
	29	2460	49.16	1.20	
	32	2200	44.02	1.35	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
7.5 KW					
WK 87 WKF 87 WKA 87 WKAF 87	39	1830	36.52	1.35	**4P**
	46	1570	31.38	1.70	
	51	1400	27.87	1.85	
	57	1250	24.92	2.0	
	64	1120	22.40	2.0	
	74	970	19.45	2.4	
	82	870	17.41	2.5	
	89	800	16.00	2.2	
	99	725	14.44	2.9	
WK 77 WKF 77 WKA 77 WKAF 77	46	1550	30.88	1.00	**4P**
	49	1470	29.26	1.05	
	56	1280	25.61	1.20	
	62	1160	23.08	1.35	
	71	1010	20.24	1.50	
	80	890	17.86	1.60	
	90	795	15.84	1.75	
	106	675	13.52	2.0	
	116	620	12.33	1.60	
	132	545	10.81	1.80	
	150	480	9.54	1.95	
	169	425	8.46	2.13	
	198	365	7.22	2.3	
11 KW					
WK187WR107 WKA187WR107	1.7	55900	835	0.90	**4P**
	2.0	48800	729	1.05	
	2.3	41600	622	1.20	
	2.8	34800	520	1.45	
	3.2	30400	454	1.65	
	4.1	23800	355	2.1	
WK187 WR97 WKA187 WR97	2.0	49600	738	1.00	**4P**
	2.3	41700	621	1.20	
	2.7	35300	527	1.40	
WK167WR107 WKA167WR107	4.5	21300	318	1.50	**4P**
	5.2	18600	278	1.70	
	5.9	16300	244	1.95	
	6.8	14200	213	2.2	
	7.0	13700	206	2.3	
WKA 167 WKAF 167	2.6	37500	561	0.85	**4P**
	3.0	32300	481	1.00	
	3.4	28300	423	1.15	
	3.9	24700	369	1.30	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
11 KW					
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	4.3	22300	333	0.80	**4P**
	4.9	19500	291	0.90	
WK127 WR87 WKF127 WR87 WKA127 WR87 WKAF127 WR87	6.8	14300	213	0.90	**4P**
	7.2	13500	200	0.90	
	8.7	11200	166	1.10	
	9.8	9850	147	1.20	
WK 167 WKA 167	5.3	19700	134.99	1.60	**8P**
	6.6	16000	109.83	2.0	
WK 167 WKA 167	5.8	18000	164.50	1.80	**6P**
	7.1	14800	134.99	2.2	
WK 167 WKA 167	8.8	12000	164.50	2.7	**4P**
	11	9850	134.99	3.2	
WK 157 WKF 157 WKA 157 WKAF 157	5.9	17900	122.39	1.00	**8P**
	7.2	14600	100.22	1.25	
	7.9	13400	91.65	1.35	
	9.0	11600	79.75	1.55	
WK 157 WKF 157 WKA 157 WKAF 157	6.4	16500	150.41	1.10	**6P**
	7.8	13400	122.39	1.35	
	9.6	11000	100.22	1.65	
	10	10000	91.65	1.80	
	12	8730	79.75	2.1	
WK 157 WKF 157 WKA 157 WKAF 157	9.6	11000	150.41	1.65	**4P**
	12	8930	122.39	2.0	
	14	7310	100.22	2.5	
	16	6690	91.65	2.7	
WK 127 WKF 127 WKA 127 WKAF 127	11	9930	136.35	1.30	**4P**
	12	8930	122.67	1.45	
	13	8040	110.35	1.60	
	16	6560	90.03	2.0	
	18	5980	82.11	2.2	
	20	5180	71.06	2.5	
WK 107 WKF 107 WKA 107 WKAF 107	13	8200	112.41	1.00	**4P**
	14	7350	100.75	1.10	
	16	6630	90.96	1.20	
	17	6030	82.61	1.35	
	20	5350	73.30	1.50	
	22	4850	66.52	1.65	
	25	4170	57.17	1.90	
	29	3640	49.90	2.2	
	34	3090	42.33	2.4	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
11 KW					
	39	2700	37.00	2.7	
WK 97 WKF 97 WKA 97 WKAF 97	20	5150	70.54	0.85	**4P**
	23	4560	62.55	0.95	
	25	4130	56.55	1.05	
	30	3500	47.93	1.25	
	34	3050	41.87	1.40	
	38	2790	38.29	1.55	
	42	2500	34.22	1.70	
	47	2250	30.81	1.90	
	52	2040	27.90	2.1	
	58	1800	24.74	2.4	
	64	1630	22.37	2.6	
WK 87 WKF 87 WKA 87 WKAF 87	33	3210	44.02	0.80	**4P**
	39	2660	36.52	0.95	
	46	2290	31.38	1.20	
	52	2030	27.87	1.30	
	58	1820	24.92	1.40	
	64	1630	22.40	1.40	
	74	1420	19.45	1.60	
	83	1270	17.41	1.75	
	90	1170	16.00	1.55	
	100	1050	14.44	2.0	
	115	920	12.56	2.2	
	129	810	11.16	1.85	
	144	730	10.00	2.1	
	174	605	8.29	2.3	
	200	525	7.21	2.5	
WK 77 WKF 77 WKA 77 WKAF 77	62	1680	23.08	0.90	**4P**
	71	1480	20.24	1.00	
	81	1300	17.86	1.10	
	91	1160	15.84	1.20	
	107	990	13.52	1.35	
	117	900	12.33	1.10	
	133	790	10.81	1.25	
	151	700	9.54	1.35	
	170	620	8.46	1.45	
	199	530	7.22	1.55	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
15 KW					
WK 157 WKF 157 WKA 157 WKAF 157	2.3	56100	622	0.90	4P
	2.8	47000	520	1.05	
	3.2	41000	454	1.20	
	4.1	32100	355	1.55	
	5.6	23600	261	2.1	
WK167 WR107 WKA167 WR107	4.6	28700	318	1.10	4P
	5.3	25000	278	1.30	
	6.0	22000	244	1.45	
	6.8	19200	213	1.65	
	7.1	18500	206	1.75	
	8.1	16200	180	1.95	
	9.1	14400	160	2.2	
WK157 WR107 WKF157 WR107 WKA157 WR107 WKAF157 WR107	6.3	20700	230	0.85	4P
	6.9	19200	213	0.95	
	7.8	16800	187	1.05	
	9.3	14200	157	1.25	
	12	11000	122	1.65	
	14	9630	107	1.85	
WK 187 WKA 187	5.4	26600	179.86	1.90	4P
	5.9	24400	165.21	2.0	
WK 167 WKA 167	7.2	19900	134.99	1.60	6P
	8.8	16200	109.83	1.95	
WK 167 WKA 167	8.9	16100	164.50	2.0	4P
	11	13200	134.99	2.4	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	7.9	18100	122.39	1.00	6P
	9.7	14800	100.22	1.20	
	11	13500	91.65	1.35	
	12	11800	79.75	1.55	
	14	10400	70.38	1.75	
WK 157 WKF 157 WKA 157 WKAF 157	9.7	14800	150.41	1.20	6P
	12	12000	122.39	1.50	
	15	9830	100.22	1.85	
	16	8990	91.65	2.0	
	18	7820	79.75	2.3	
WK 157 WKF 157 WKA 157 WKAF 157	11	13400	136.14	0.95	4P
	12	12000	122.48	1.10	
	13	10800	110.18	1.20	
	16	8820	89.89	1.45	
	18	8040	81.98	1.60	
	21	6960	70.95	1.85	
	23	6140	62.60	2.1	
	27	5300	54.07	2.5	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
15 KW					
	31	4690	47.82	2.8	
WK 127 WKF 127 WKA 127 WKAF 127	16	8920	90.03	0.90	4P
	18	8110	82.11	1.00	
	20	7190	71.06	1.10	
	22	6530	62.70	1.25	
WK 107 WKF 107 WKA 107 WKAF 107	26	5610	57.17	1.45	4P
	29	4900	49.90	1.60	
	34	4150	42.33	1.75	
	39	3630	37.00	2.0	
	45	3210	32.68	2.2	
	47	3070	31.28	2.2	
	50	2840	29.00	2.5	
WK 97 WKF 97 WKA 97 WKAF 97	30	4700	47.93	0.90	4P
	35	4110	41.87	1.05	
	38	3760	38.29	1.15	
	43	3360	34.22	1.30	
	47	3020	30.81	1.40	
	52	2740	27.90	1.55	
	59	2430	24.74	1.75	
	65	2190	22.37	1.95	
	77	1860	18.96	2.3	
	88	1620	16.56	2.7	
WK 87 WKF 87 WKA 87 WKAF 87	47	3080	31.38	0.90	4P
	52	2730	27.87	0.95	
	59	2440	24.92	1.00	
	65	2200	22.40	1.05	
	75	1910	19.45	1.20	
	84	1710	17.41	1.30	
	91	1570	16.00	1.15	
	101	1420	14.44	1.50	
	116	1230	12.56	1.60	
	131	1100	11.16	1.35	
	146	980	10.00	1.55	
	176	810	8.29	1.70	
	202	705	7.21	1.85	
18.5 KW					
WK187 WR107 WKA187 WR107	2.8	57800	520	0.85	4P
	3.2	50400	454	1.00	
	4.1	39500	355	125	
	5.6	29000	261	1.70	
	6.6	24600	221	2.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
18.5 KW					
WK187 WR107 WKA187 WR107	4.6	35300	318	0.90	**4P**
	5.3	30800	278	1.05	
	6.0	27100	244	1.20	
	6.9	23600	213	1.35	
	7.1	22800	206	1.40	
	8.1	20000	180	1.60	
	9.2	17700	160	1.80	
	11	15000	135	2.1	
	12	13100	118	2.4	
WK157 WR107 WKF157 WR107 WKA157 WR107 WKAF157WR107	7.8	20700	187	0.85	**4P**
	9.3	17400	157	1.05	
	12	13600	122	1.35	
	14	11900	107	1.50	
WKA157 WR107 WKAF157 WR107	6.9	19200	213	0.95	**4P**
	7.8	16800	187	1.05	
	9.3	14200	157	1.25	
	12	11000	122	1.65	
	14	9630	107	1.85	
WK 187 WKA 187	5.4	32800	179.86	1.55	**6P**
	5.9	30100	165.21	1.65	
	6.7	26300	144.59	1.90	
	7.5	23600	129.69	2.1	
WK 187 WKA 187	8.1	21700	179.86	2.3	**4P**
	8.9	19900	165.21	2.5	
	10	17400	144.59	2.9	
	11	15600	129.69	3.2	
WK 167 WKA 167	11	16300	134.99	1.95	**4P**
	13	13200	109.83	2.4	
	17	1060	87.86	3.0	
WK 157 WKF 157 WKA 157 WKAF 157	9.7	1830	100.22	1.00	**6P**
	11	16700	91.65	1.10	
	12	14500	79.75	1.25	
	14	12800	70.38	1.40	
WK 157 WKF 157 WKA 157 WKAF 157	12	14800	122.39	1.20	**4P**
	15	12100	100.22	1.50	
	16	11100	91.65	1.65	
	18	9620	79.75	1.85	
	21	8490	70.38	2.1	
	24	7360	61.02	2.5	
	27	6550	54.29	2.8	
	31	5640	46.79	3.2	
	39	4580	38.02	3.9	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WK 127 WKF 127 WKA 127 WKAF 127	13	13300	110.35	1.00	**4P**
	16	10800	90.03	1.20	
	18	9890	82.11	1.30	
	21	8560	71.06	1.50	
	23	7550	62.70	1.70	
	27	6520	54.15	2.0	
	31	5770	47.90	2.2	
	36	4850	40.25	2.7	
	40	4370	36.30	3.0	
	47	3780	31.41	3.4	
	53	3340	27.72	3.9	
WK 107 WKF 107 WKA 107 WKAF 107	20	8840	73.30	0.90	**4P**
	22	8020	66.52	1.00	
	26	6890	57.17	1.15	
	29	6020	49.90	1.30	
	35	5100	42.33	1.45	
	40	4460	37.00	1.60	
	45	3940	32.68	1.85	
	47	3770	31.28	1.80	
	51	3500	29.00	2.1	
	56	3170	26.32	2.3	
	65	2730	22.62	2.6	
	74	2380	19.74	3.0	
	88	2020	16.75	3.5	
WK 97 WKF 97 WKA 97 WKAF 97	35	5050	41.87	0.85	**4P**
	48	3720	30.81	1.15	
	53	3360	27.90	1.30	
	59	2980	24.74	1.45	
	65	2700	22.37	1.60	
	77	2290	18.96	1.90	
	88	2000	16.56	2.2	
	106	1670	13.85	2.6	
	122	1450	11.99	2.7	
WK 87 WKF 87 WKA 87 WKAF 87	59	3000	24.92	0.85	**4P**
	65	2700	22.40	0.85	
	75	2340	19.45	**1.00**	
	84	2100	17.41	1.05	
	101	1740	14.45	1.20	
	117	1510	12.56	1.30	
	131	1350	11.16	1.10	
	147	1210	10.00	1.25	
	177	1000	8.29	1.40	
	203	870	7.21	1.50	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
22 KW					
WK187 WR107 WKA187 WR107	3.2	60000	454	0.85	**4P**
	4.1	47000	355	1.05	
	5.6	34500	261	1.45	
	6.6	29300	221	1.70	
	7.6	25600	193	1.95	
	8.9	21600	163	2.3	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	5.3	36700	278	0.85	**4P**
	6.0	32200	244	1.00	
	6.9	28200	213	1.15	
	7.1	27200	206	1.20	
	8.1	23800	180	1.35	
	9.2	21100	160	1.50	
	11	17900	135	1.80	
	12	15600	118	2.0	
WK157 WR97 WKF157 WR97 WKA157 WR97 WKAF157 WR97	9.3	20800	157	0.85	**4P**
	12	16200	122	1.10	
	14	14100	107	1.25	
WK 187 WKA 187	5.4	39000	179.86	1.30	**6P**
	5.9	35800	165.21	1.40	
	6.7	31300	144.59	1.60	
	7.5	28100	129.69	1.80	
	8.6	24400	112.60	2.0	
WK 187 WKA 187	8.1	25800	179.86	1.95	**4P**
	8.9	23700	165.21	2.1	
	10	20700	144.59	2.4	
	11	18600	129.69	2.7	
WK 167 WKA 167	11	19400	134.99	1.65	**4P**
	13	15700	109.83	2.0	
	17	12600	87.86	2.5	
	19	11200	78.14	2.9	
WK 157 WKF 157 WKA 157 WKAF 157	9.7	21700	100.22	0.85	**6P**
	11	19900	91.65	0.90	
	12	17300	79.75	1.05	
	14	15200	70.38	1.20	
	16	13200	61.38	1.35	
WK 157 WKF 157 WKA 157 WKAF 157	12	17600	122.39	1.05	**4P**
	15	14400	100.22	1.25	
	16	13100	91.22	1.35	
	18	11400	79.75	1.55	
	21	10100	70.38	1.80	
	24	8750	61.02	2.1	
	27	7790	54.29	2.3	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
22 KW					
	31	6710	46.79	2.7	
	39	5450	38.02	3.3	
WK 127 WKF 127 WKA 127 WKAF 127	16	12900	90.03	1.00	**4P**
	18	11800	82.11	1.10	
	21	10200	71.06	1.30	
	23	8980	62.70	1.45	
	27	7750	54.15	1.70	
	31	6860	47.90	1.90	
	36	5760	40.25	2.3	
	40	5200	36.30	2.5	
	47	4500	31.41	2.9	
	53	3970	27.72	3.3	
	61	3430	23.94	3.8	
	69	3030	21.71	4.3	
WK 107 WKF 107 WKA 107 WKAF 107	26	8200	57.17	1.00	**4P**
	29	7160	49.90	1.10	
	35	6070	42.33	1.20	
	40	5310	37.00	1.35	
	45	4690	32.69	1.55	
	47	4490	31.28	1.50	
	51	4160	29.00	1.75	
	56	3770	26.32	1.90	
	65	3240	22.62	2.2	
	74	2830	19.74	2.5	
	88	2400	16.75	2.9	
	100	2100	14.63	3.3	
	109	1930	13.43	2.2	
	125	1680	11.73	2.6	
	147	1430	9.94	2.9	
WK 97 WKF 97 WKA 97 WKAF 97	48	4420	30.82	0.95	**4P**
	53	4000	27.91	1.05	
	59	3550	24.75	1.20	
	65	3210	22.37	1.35	
	77	2720	18.96	1.60	
	88	2370	16.56	1.80	
	106	1990	13.85	2.2	
	122	1720	11.99	2.3	
	141	1490	10.41	1.90	
	168	1250	8.71	2.1	
WK 87 WKF 87 WKA 87 WKAF 87	75	2790	19.45	0.80	**4P**
	84	2500	17.41	0.90	
	101	2070	14.44	1.00	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
22 KW					
WK 87 WKF 87 WKA 87 WKAF 87	101	2070	14.44	1.00	**4P**
	117	1800	12.56	1.10	
	131	1600	11.16	0.95	
	147	1430	10.00	1.05	
	177	1190	8.29	1.20	
	203	1030	7.21	1.25	
30 KW					
WK187 WR107 WKA187 WR107	5.6	47000	261	1.05	**4P**
	6.6	39800	221	1.25	
	7.6	34800	193	1.45	
	9.0	29400	163	1.70	
WK167 WR107 WKA167 WR107	6.9	38300	213	0.85	**4P**
	7.1	37000	206	0.85	
	8.1	32400	180	1.00	
	9.2	28700	160	1.10	
	11	24400	135	1.30	
	12	21300	118	1.50	
WK 187 WKA 187	8.2	35100	179.86	1.45	**4P**
	8.9	32200	165.21	1.55	
	10	28200	144.59	1.75	
	11	25300	129.69	2.0	
	13	21900	112.60	2.3	
	14	19900	102.16	2.5	
	17	17200	88.00	2.9	
WK 167 WKA 167	13	21400	109.83	1.50	**4P**
	17	17100	87.86	1.85	
	19	15200	78.14	2.1	
	22	13300	68.07	2.4	
	24	11800	60.74	2.7	
WK 157 WKF 157 WKA 157 WKAF 157	15	19500	100.22	0.90	**4P**
	16	17900	91.65	1.00	
	18	15500	79.75	1.15	
	21	13700	70.38	1.30	
	24	11900	61.02	1.50	
	27	10600	54.29	1.70	
	31	9120	46.79	1.95	
	39	7410	38.02	2.4	
	47	6100	31.30	3.0	
WK 127 WKF 127 WKA 127 WKAF 127	21	13800	71.06	0.95	**4P**
	23	12200	62.70	1.05	
	27	10500	54.15	1.25	
	31	9320	47.90	1.65	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
30 KW					
WK 127 WKF 127 WKA 127 WKAF 127	37	7830	40.25	1.65	**4P**
	41	7060	36.30	1.85	
	47	6110	31.41	2.1	
	53	5390	27.72	2.4	
	62	4660	23.94	2.8	
WK 107 WKF 107 WKA 107 WKAF 107	35	8250	42.33	0.90	**4P**
	27	7750	54.15	1.00	
	47	6100	31.28	1.10	
	51	5650	29.00	1.25	
	56	5130	26.32	1.40	
	65	4410	22.62	1.65	
	74	3850	19.74	1.85	
	88	3260	16.75	2.2	
	100	2850	14.63	2.4	
	109	2620	13.43	1.65	
	125	2280	11.73	1.90	
	148	1940	9.94	2.2	
	169	1690	8.69	2.4	
WK 97 WKF 97 WKA 97 WKAF 97	59	4820	24.75	0.90	**4P**
	66	4360	22.37	1.00	
	78	3690	18.96	1.15	
	89	3230	16.56	1.35	
	106	2700	13.85	1.60	
	123	2340	11.99	1.65	
	141	2030	10.41	1.40	
	169	1700	8.71	1.55	
37 KW					
WK187 WR107 WKA187WR107	5.6	58000	261	0.85	**4P**
	6.6	49200	221	1.00	
	7.6	43000	193	1.15	
	9.0	36300	163	1.40	
WK167 WR107 WKA167WR107	8.1	40000	180	0.80	**4P**
	9.2	35500	160	0.90	
	11	30100	135	1.05	
	12	26300	118	1.20	
WK 187 WKA 187	8.2	43200	179.86	1.15	**4P**
	8.9	39700	165.21	1.25	
	10	34800	144.59	1.45	
	11	31200	129.69	1.60	
	13	27100	112.60	1.85	
	14	24600	102.16	2.0	
	17	21200	88.00	2.4	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
37 KW					
WK 167 WKA 167	13	26400	109.83	1.20	**4P**
	17	21100	87.86	1.50	
	19	18800	78.14	1.70	
	22	16400	68.07	1.95	
	24	14600	60.74	2.2	
	28	12400	51.77	2.6	
WK 157 WKF 157 WKA 157 WKAF 157	16	22000	91.65	0.80	**4P**
	18	19200	79.75	0.95	
	21	16900	70.38	1.05	
	24	14700	61.02	1.25	
	27	13000	54.29	1.40	
	31	11200	46.79	1.60	
	39	9140	38.02	1.95	
	47	7520	31.30	2.4	
WK 127 WKF 127 WKA 127 WKAF 127	23	15000	62.70	0.85	**4P**
	27	13000	54.15	1.00	
	31	11500	47.90	1.15	
	37	9660	40.25	1.35	
37 KW					
WK 127 WKF 127 WKA 127 WKAF 127	41	8710	36.30	1.50	**4P**
	47	7540	31.41	1.70	
	53	6650	27.72	1.95	
	62	5740	23.94	2.3	
	70	5080	21.17	2.6	
	83	4270	17.79	3.0	
	102	3450	14.37	3.5	
	115	3070	12.78	2.8	
	137	2580	10.74	3.1	
	169	2090	8.68	3.5	
WK 107 WKF 107 WKA 107 WKAF 107	40	8890	37.00	0.80	**4P**
	47	7520	31.28	0.90	
	51	6970	29.00	1.05	
	56	6320	26.32	1.15	
	65	5440	22.62	1.30	
	74	4740	19.74	1.50	
	88	4020	16.75	1.75	
	100	3520	14.63	1.95	
	109	3230	13.43	1.35	
	125	2820	11.73	1.55	
	148	2390	9.94	1.75	
	169	2090	8.69	1.95	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
45 KW					
WK187 WR107 WKA187WR107	6.6	59800	221	0.85	**4P**
	7.6	52300	193	0.95	
	9.0	44200	163	1.15	
WK167 WR107 WKA167WR107	11	36600	135	0.85	**4P**
	12	32000	118	1.00	
WK 187 WKA 187	8.2	52600	179.86	0.95	**4P**
	8.9	48300	165.86	1.05	
	10	42300	144.59	1.20	
	11	37900	129.69	1.30	
	13	32900	112.60	1.50	
	14	29900	102.16	1.65	
	17	25700	88.00	1.95	
	20	21600	73.96	2.3	
WK 167 WKA 167	13	32100	109.83	1.00	**4P**
	17	25700	87.86	1.25	
	19	22800	78.14	1.40	
	22	19900	68.07	1.60	
	24	17800	60.74	1.80	
	28	15100	51.77	2.1	
	34	12500	42.89	2.5	
WK 157 WKF 157 WKA 157 WKAF 157	21	20600	70.38	0.85	**4P**
	24	17800	61.02	1.00	
	27	15900	54.29	1.15	
	31	13700	46.79	1.30	
	39	11100	38.02	1.60	
	47	9150	31.30	1.95	
	53	8080	27.62	2.2	
	61	7000	23.95	2.6	
	69	6230	21.31	2.9	
	80	5370	18.37	3.3	
WK 127 WKF 127 WKA 127 WKAF 127	31	14000	47.90	0.95	**4P**
	37	11700	40.25	1.10	
	41	10600	36.30	1.25	
	47	9170	31.41	1.40	
	53	8090	27.72	1.60	
	62	6990	23.94	1.85	
	70	6180	21.17	2.1	
	83	5190	17.79	2.5	
	102	4190	14.37	2.9	
	115	3740	12.78	2.3	
	137	3140	10.74	2.5	
	169	2540	8.68	2.8	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
55 KW					
WK 187 WKA 187	10	51500	144.59	0.95	**4P**
	11	46200	129.69	1.10	
	13	40100	112.60	1.25	
	14	36400	102.16	1.35	
	17	31300	88.00	1.60	
	20	26300	73.96	1.90	
	23	22800	64.04	2.2	
WKA 167 WKAF 167	17	31300	87.86	1.00	**4P**
	19	27800	78.14	1.15	
	22	24200	68.07	1.30	
	24	21600	60.74	1.50	
	28	18400	51.77	1.75	
	34	15300	42.89	2.1	
	40	13000	36.61	2.5	
WK 157 WKF 157 WKA 157 WKAF 157	24	21700	61.02	0.85	**4P**
	27	19300	54.29	0.95	
	32	16700	46.79	1.10	
	39	13500	38.02	1.35	
	47	11100	31.30	1.60	
	53	9840	27.62	1.85	
	62	8530	23.95	2.1	
	69	7590	21.31	2.4	
	80	6540	18.37	2.8	
	99	5310	14.92	3.4	
	117	4510	12.65	3.8	
WK 127 WKF 127 WKA 127 WKAF 127	37	14300	40.25	0.90	**4P**
	47	11200	31.41	1.15	
	53	9850	27.72	1.30	
	62	8510	23.94	1.55	
	70	7530	21.17	1.75	
	83	6330	17.79	2.0	
	103	5110	14.37	2.4	
	115	4550	12.78	1.85	
	137	3830	10.74	2.1	
	170	3090	8.68	2.3	
75 KW					
WK 187 WKA 187	11	62800	129.69	0.80	**4P**
	13	54500	112.60	0.90	
	14	49400	102.16	1.00	
	17	42600	88.00	1.15	
	20	35800	73.96	1.40	
	23	31000	64.04	1.60	

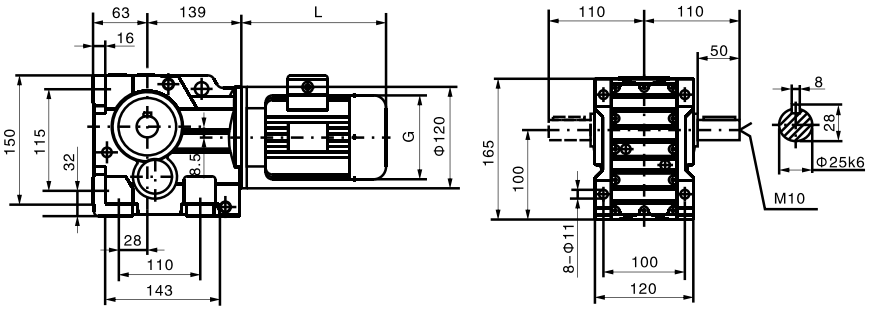
Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
75 KW					
	28	25800	53.36	1.95	
	33	22000	45.50	2.3	
WK 167 WKA 167	19	37800	78.14	0.85	**4P**
	22	32900	68.07	0.95	
	24	29400	60.74	1.10	
	29	25100	51.77	1.30	
	35	20800	42.89	1.55	
	40	17700	36.61	1.80	
	46	15600	32.25	2.0	
	51	13900	28.77	2.3	
	60	11900	24.52	2.7	
WK 157 WKF 157 WKA 157 WKAF 157	39	18400	38.02	1.00	**4P**
	47	15100	31.30	1.20	
	54	13400	27.62	1.35	
	62	11600	23.95	1.55	
	69	10300	21.31	1.75	
	81	8890	18.37	2.0	
	99	7220	14.92	2.5	
	117	6120	12.65	2.8	
WK 127 WKF 127 WKA 127 WKAF 127	47	15200	31.41	0.85	**4P**
	53	13400	27.72	0.95	
	62	11600	23.94	1.10	
	70	10200	21.17	1.25	
	83	8600	17.79	1.50	
	103	6940	14.37	1.75	
	116	6190	12.78	1.40	
	138	5200	10.74	1.55	
	171	4200	8.68	1.70	
90 KW					
WK 187 WKA 187	14	59300	102.16	0.85	**4P**
	17	51100	88.00	1.00	
	20	42900	73.96	1.15	
	23	37200	64.04	1.35	
	28	31000	53.36	1.60	
	33	26400	45.50	1.90	
	35	24700	42.51	2.0	
	38	22400	38.57	2.2	
WK 167 WKA 167	22	39500	68.07	0.80	**4P**
	24	35300	60.74	0.90	
	29	30100	51.77	1.05	
	35	24900	42.89	1.30	
	40	21300	36.61	1.50	

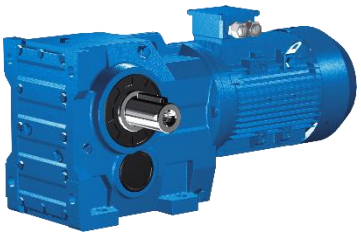
Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
90 KW					
WK 167 WKA 167	46	18700	32.25	1.70	4P
	51	16700	28.77	1.90	
	60	14200	24.52	2.2	
	73	11800	20.32	2.7	
	85	10100	17.34	3.2	
WK 157 WKF 157 WKA 157 WKAF 157	39	22100	38.02	0.80	4P
	47	18200	31.30	1.00	
	54	16000	27.62	1.10	
	62	13900	23.95	1.30	
	69	12400	21.31	1.45	
	81	10700	18.37	1.70	
	99	8670	14.92	2.1	
	117	7350	12.65	2.3	
WK 127 WKF 127 WKA 127 WKAF 127	62	13900	23.94	0.95	4P
	70	12300	21.17	1.05	
	83	10300	17.79	1.25	
	103	8330	14.37	1.45	
	116	7420	12.78	1.15	
	138	6240	10.74	1.30	
	171	5040	8.68	1.45	
110 KW					
WKA 187 WKAF 187	17	62300	88.00	0.80	4P
	20	52300	73.96	0.95	
	23	45300	64.04	1.10	
	28	37700	53.36	1.30	
	33	32200	45.50	1.55	
	35	30100	42.51	1.65	
	39	27300	38.57	1.85	
	45	23500	33.23	2.1	
	53	19800	27.92	2.5	
WK 167 WKA 167	29	36600	51.77	0.85	4P
	35	30300	42.89	1.05	
	41	25900	36.61	1.25	
	46	22800	32.25	1.40	
	52	20400	28.77	1.55	
	61	17300	24.52	1.85	
	73	14400	20.32	2.2	
	86	12300	17.34	2.6	
WK 157 WKF 157 WKA 157 WKAF 157	62	16900	23.985	1.05	4P
	40	15100	21.31	1.20	
	81	13000	18.37	1.40	
	100	10600	14.92	1.70	
	117	8950	12.65	1.90	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
132 KW					
WK 187 WKA 187	20	62800	73.96	0.80	4P
	23	54400	64.04	0.90	
	28	45300	53.36	1.10	
	33	38600	45.50	1.30	
	35	36100	42.51	1.40	
	39	32700	38.57	1.55	
	45	28200	33.23	1.75	
	53	23700	27.92	2.1	
	61	20500	24.18	2.3	
	74	17100	20.15	2.6	
	86	14600	17.18	2.8	
WK 167 WKA 167	35	36400	42.89	0.90	4P
	41	31100	36.61	1.05	
	46	27400	32.25	1.15	
	52	24400	28.77	1.30	
	61	20800	24.52	1.55	
	73	17200	20.32	1.85	
	86	14700	17.34	2.2	
WK 157 WKF 157 WKA 157 WKAF 157	62	20300	23.95	0.90	4P
	70	18100	21.31	1.00	
	81	15600	18.37	1.15	
	100	12700	14.92	1.40	
	117	10700	12.65	1.60	
160 KW					
WK 187 WKA 187	28	54900	53.36	0.90	4P
	33	46800	45.50	1.05	
	45	34800	33.23	1.45	
	53	28700	27.92	1.75	
	61	24900	24.18	1.90	
	74	20700	20.15	2.1	
	86	17700	17.18	2.3	
WK 167 WKA 167	41	37700	36.61	0.85	4P
	61	25200	24.52	1.25	
	73	20900	20.32	1.55	
	86	17800	17.34	1.80	
WK 157 WKF 157 WKA 157 WKAF 157	81	189	18.37	0.95	4P
	100	15400	14.92	1.15	
	117	13000	12.65	1.30	
200 KW					
WK 187 WKA 187	33	58500	45.50	0.85	4P
	45	42700	33.23	1.15	
	53	35900	27.92	1.40	
	61	31100	24.18	1.55	

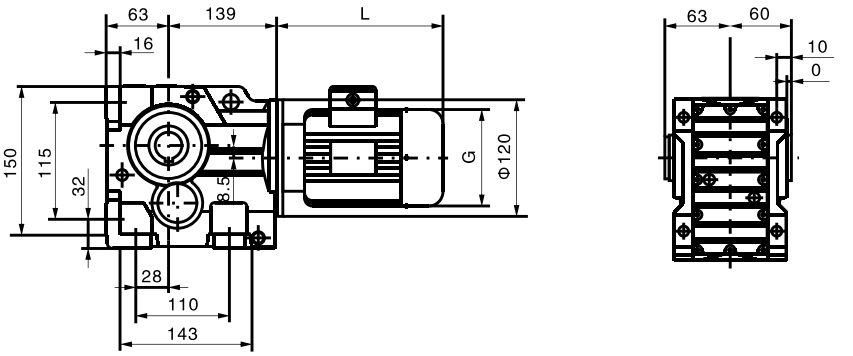
Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
200 KW					
WK 187 **WKA 187**	74	25900	20.15	1.70	**4P**
	86	22100	17.18	1.85	
WK 167 **WKA 167**	61	31500	24.52	1.00	**4P**
	73	26100	20.32	1.20	
	86	22300	17.34	1.45	
WK 157 **WKF 157** **WKA 157** **WKAF 157**	100	19200	14.92	0.95	**4P**
	117	16300	12.65	1.05	

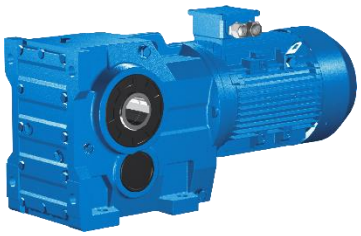
WK37



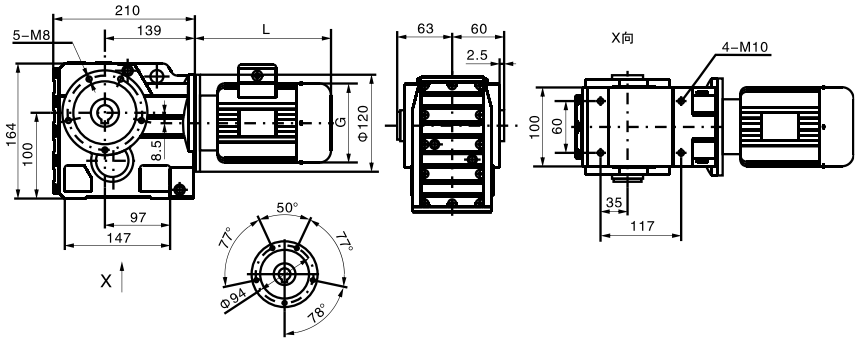


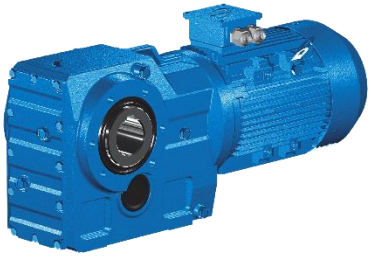
WKAB37



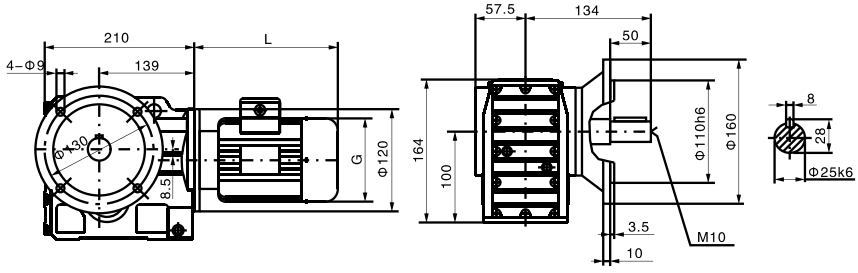


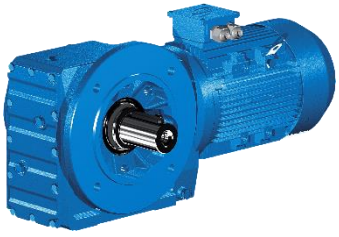
WKA37



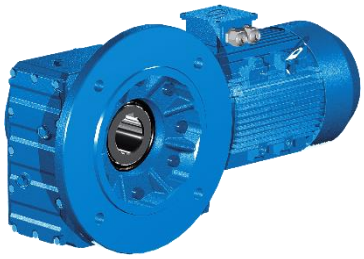


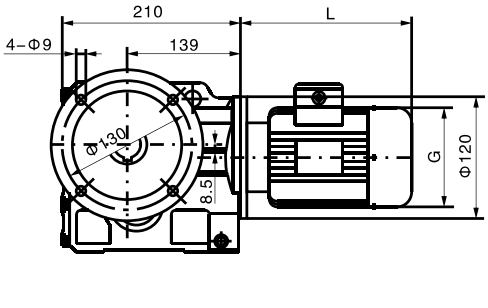
WKF37

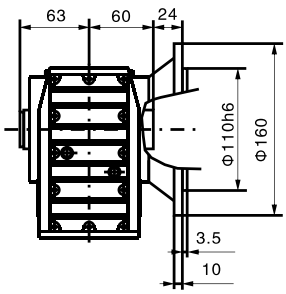




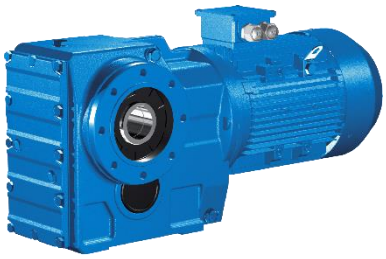
WKF37

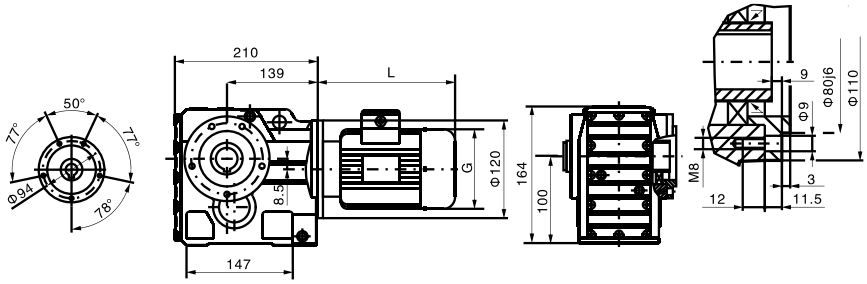




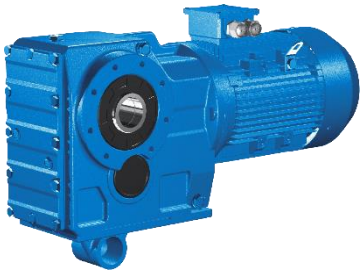


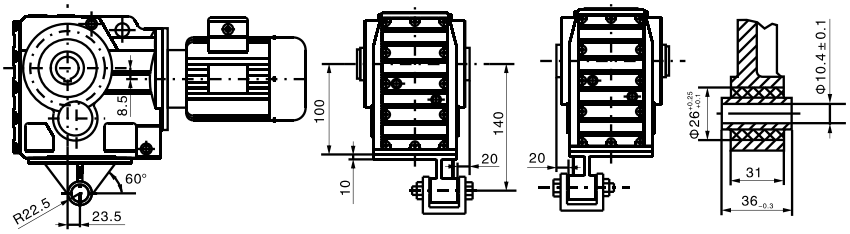
WKAZ37



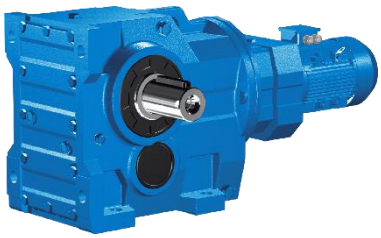


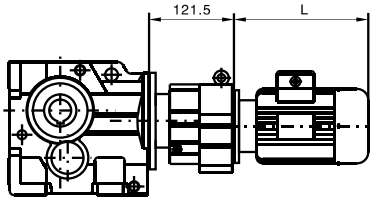
WKAT37

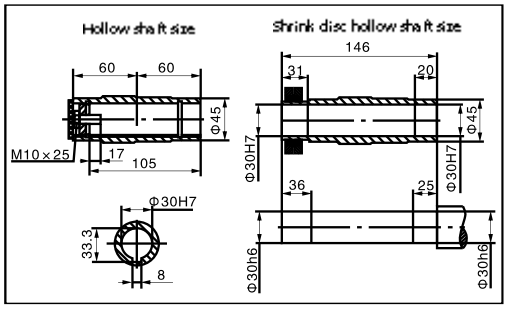




WK..37WR17

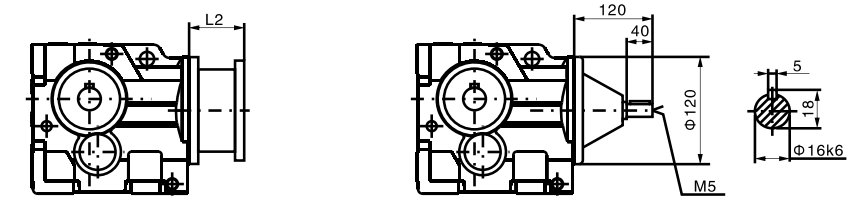


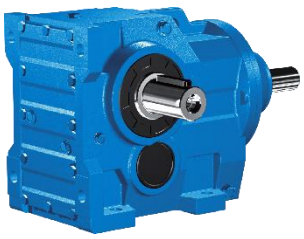




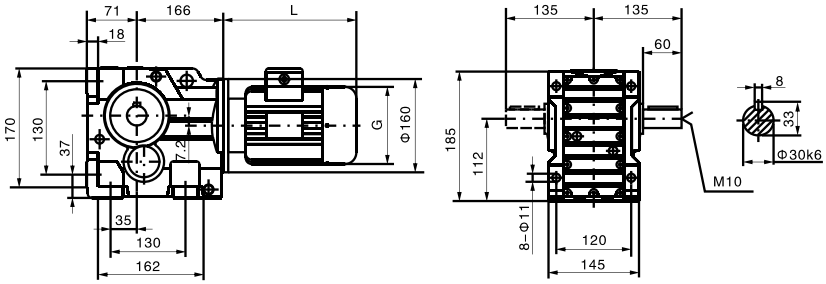
WK..S37

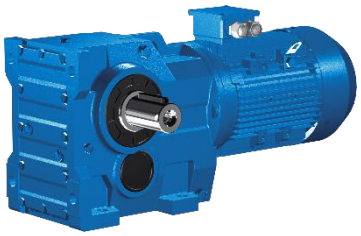
When the motor is equipped by the purchaser or with a special motor, a connecting flange is required



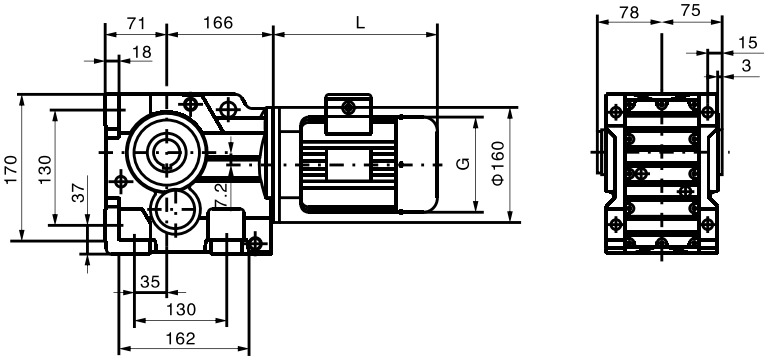


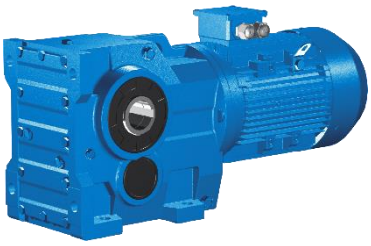
WK47



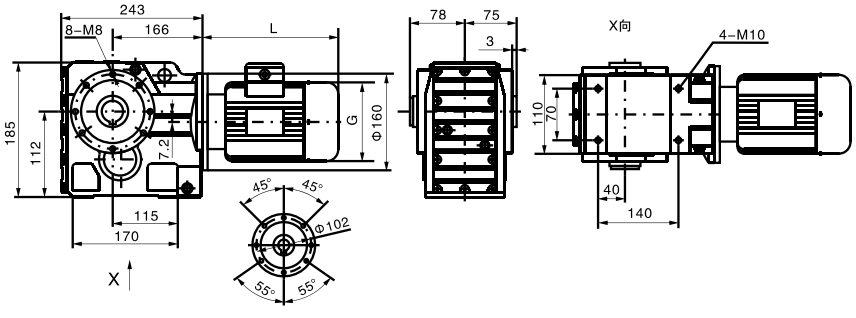


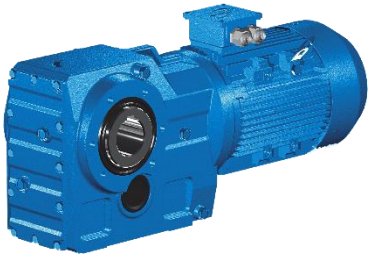
WKAB47



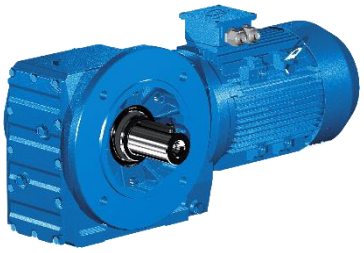


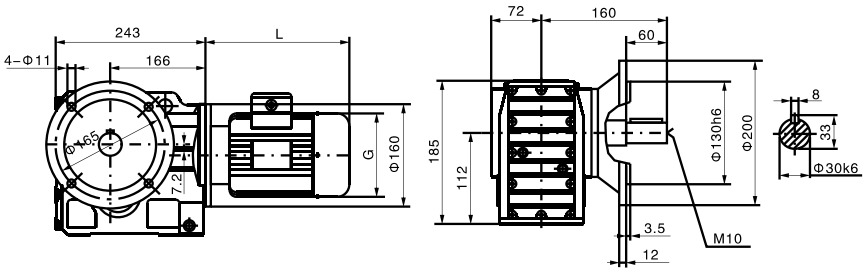
WKA47



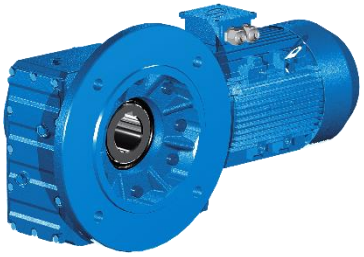


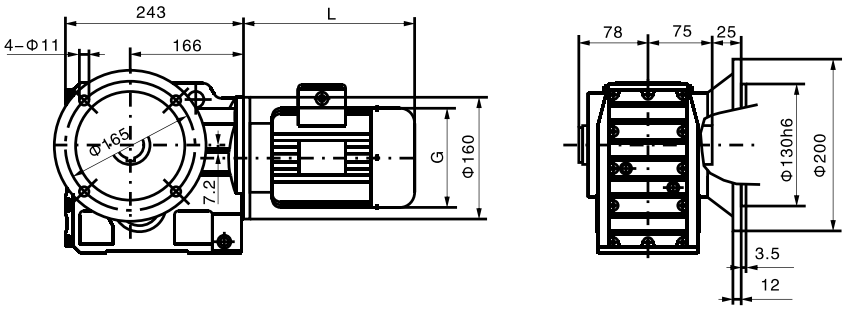
WKF47



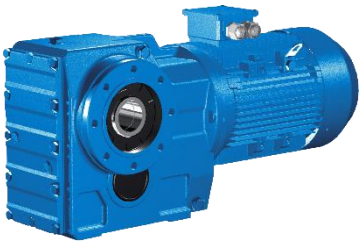


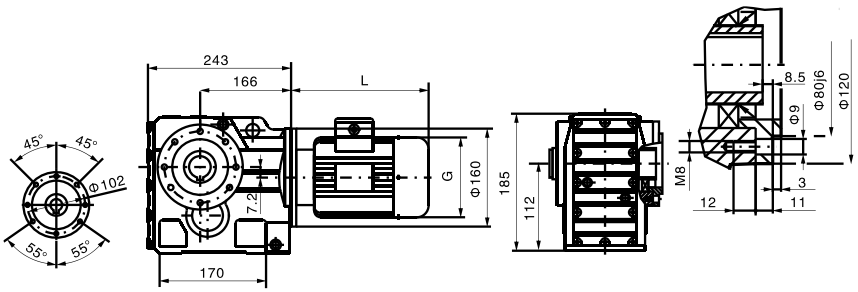
WKAF47



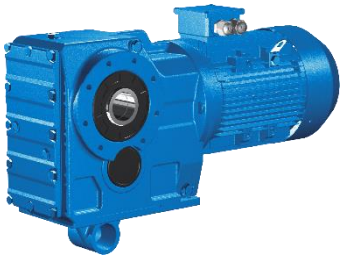


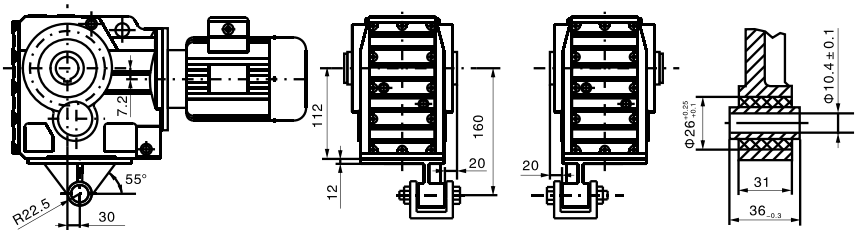
WKAZ47



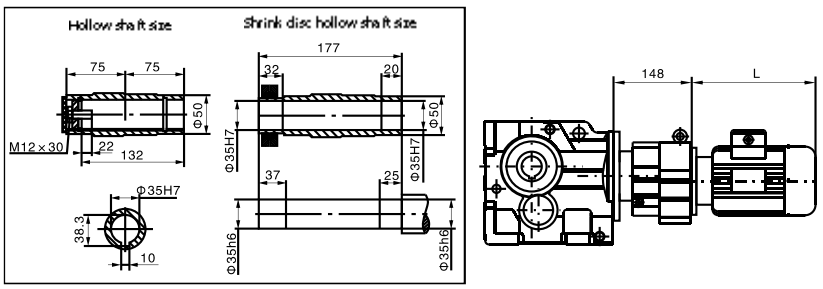


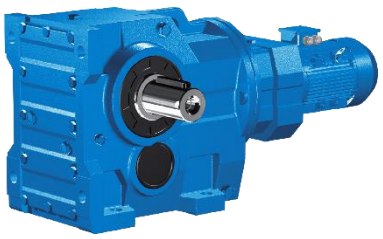
WKAT47





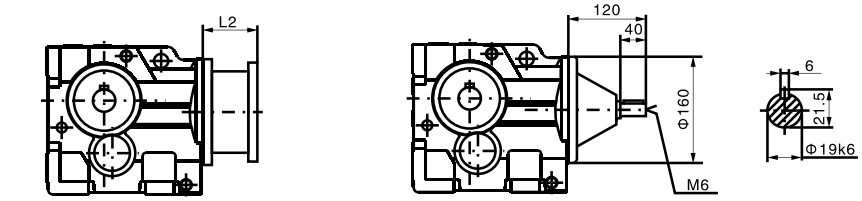
WK..47WR37

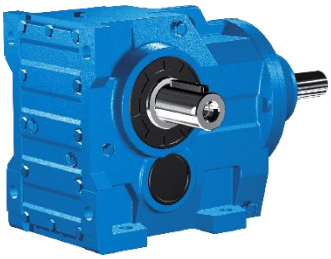




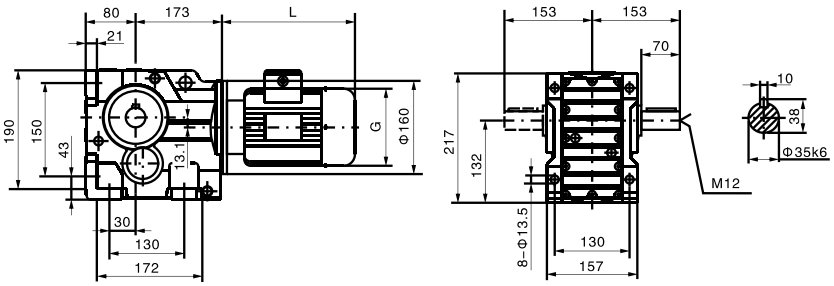
WK..S47

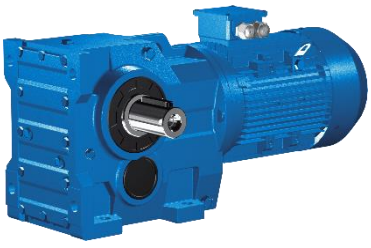
When the motor is equipped by the purchaser or with a special motor, a connecting flange is required



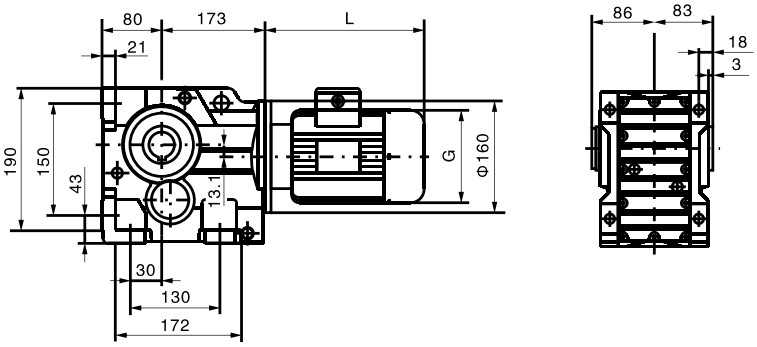


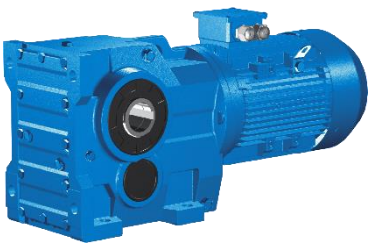
WK57



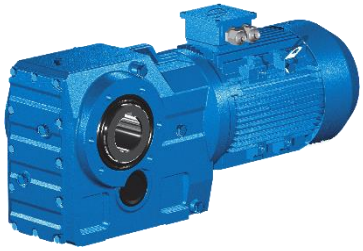


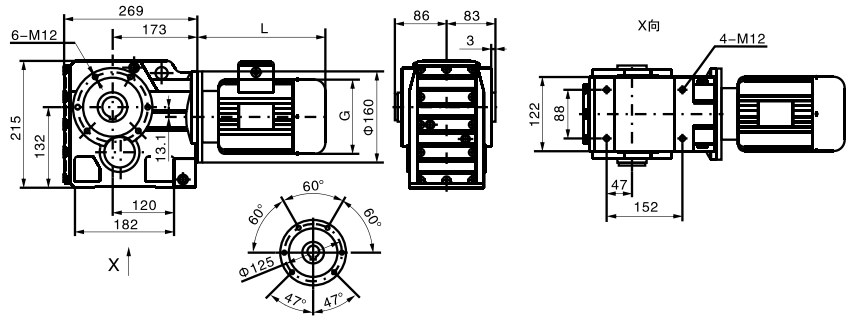
WKAB57



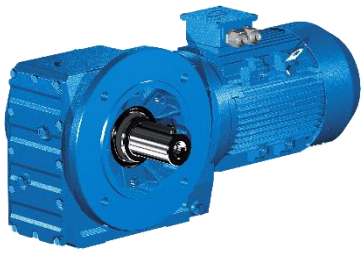


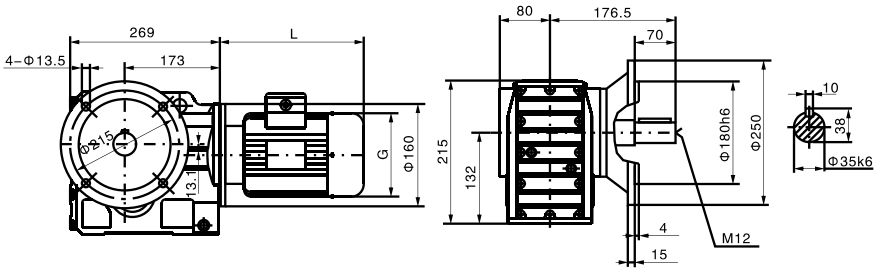
WKA57



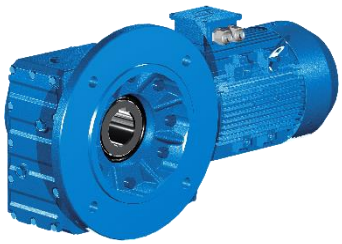


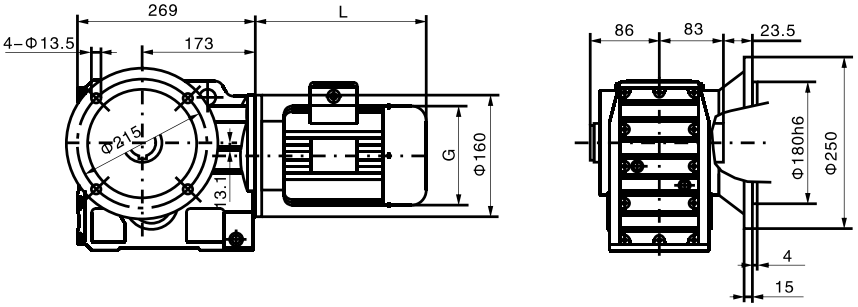
WKF57



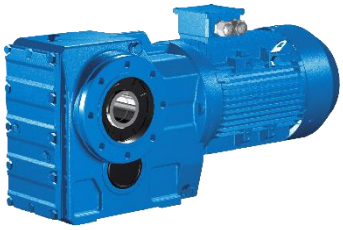


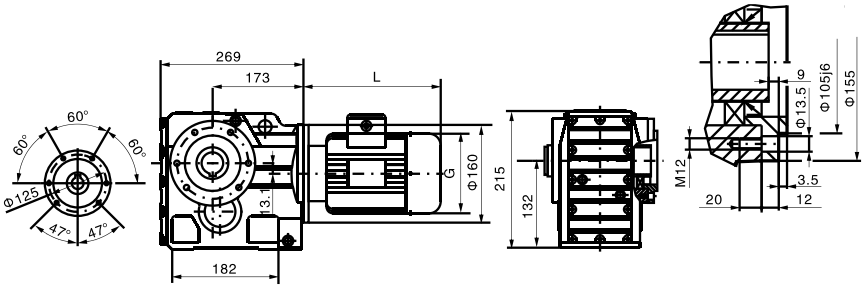
WKAF57



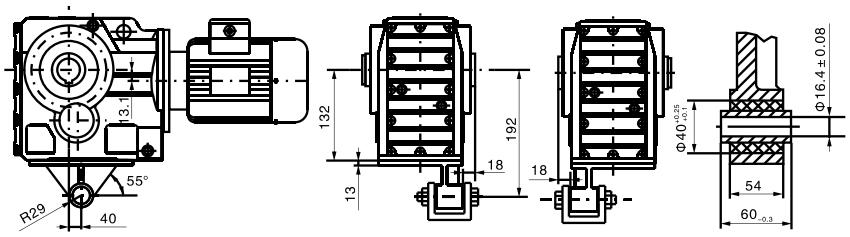


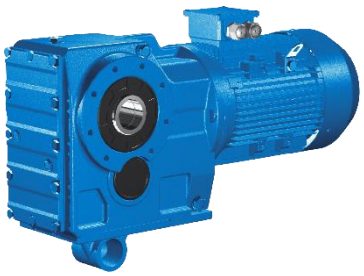
WKAZ57



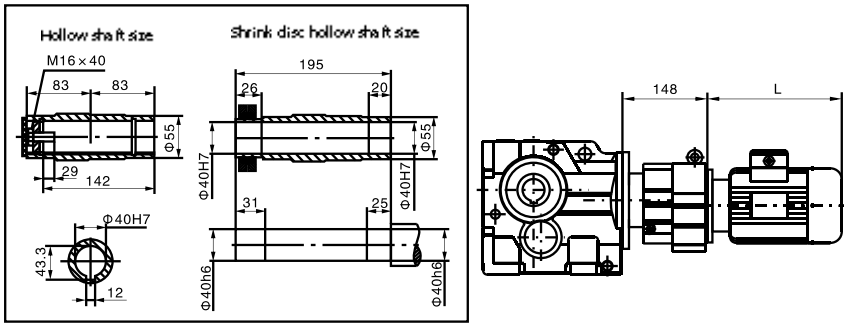


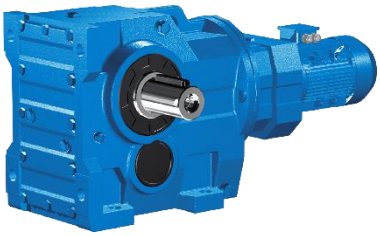
WKAT57



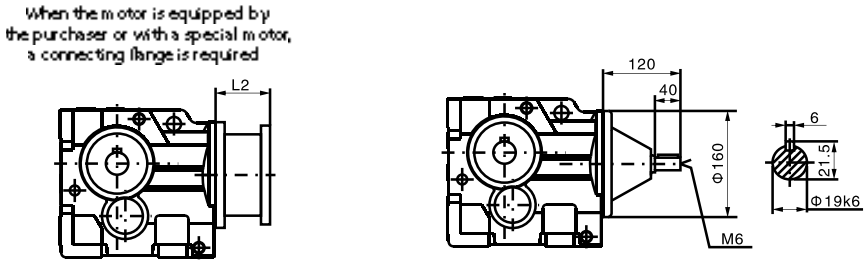


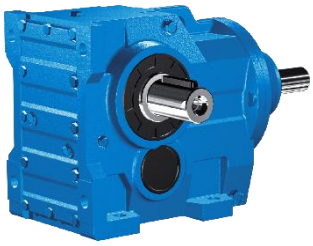
WK..57WR37



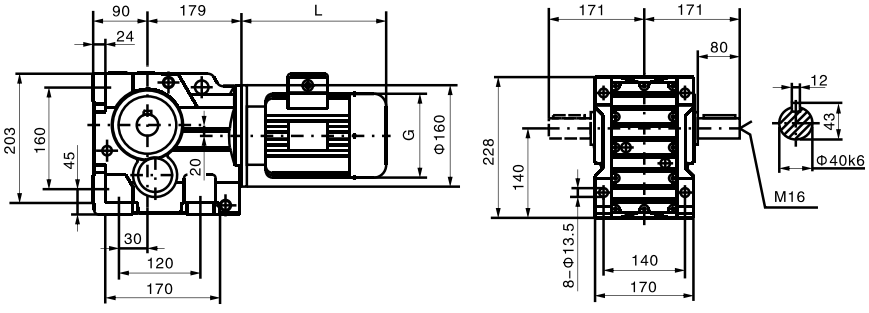


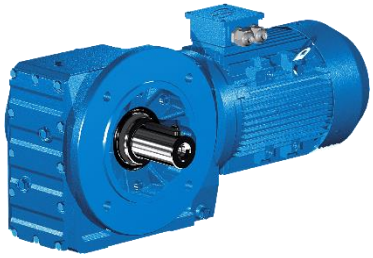
WK..S57



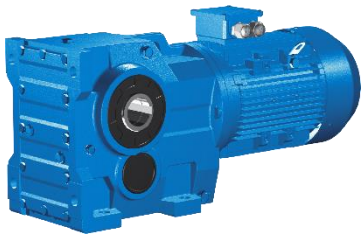


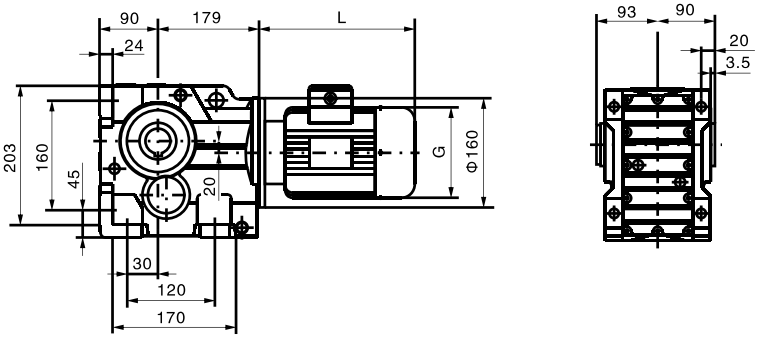
WK67



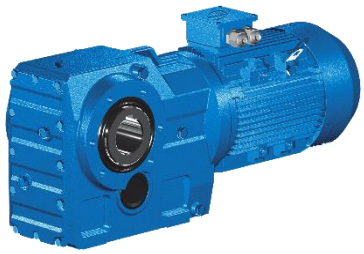


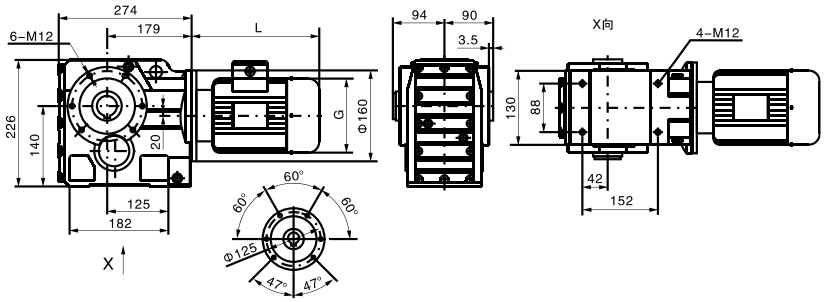
WKAB67



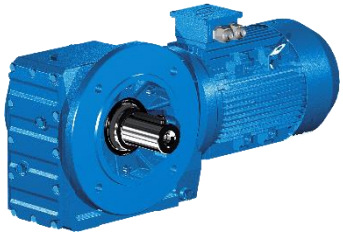


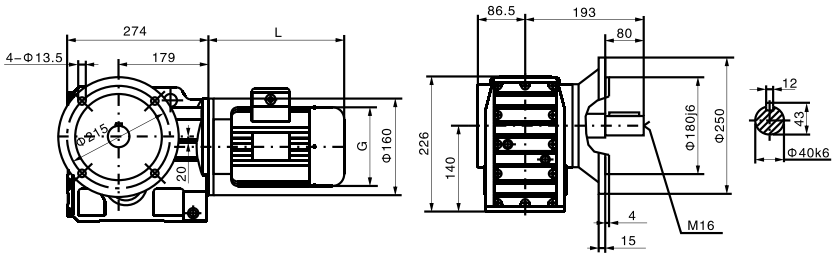
WKA67



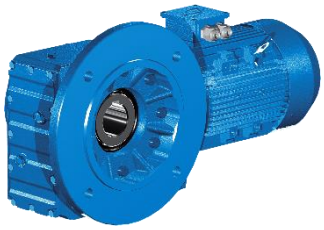


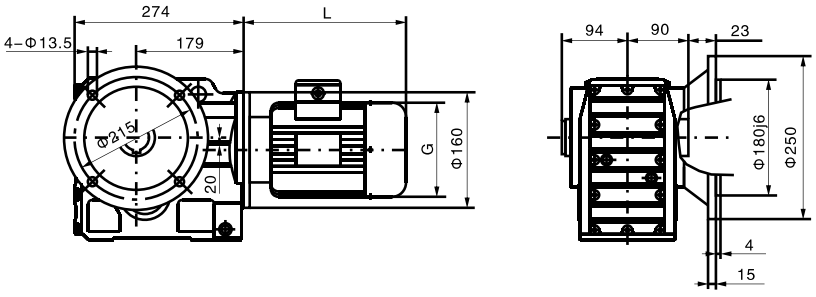
WKAF67



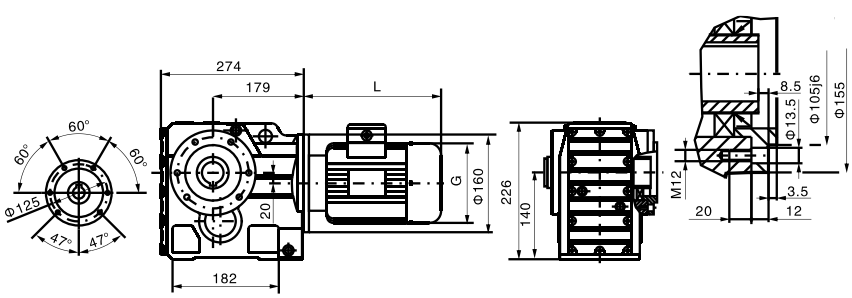


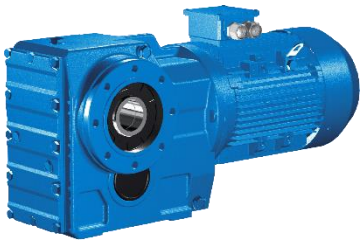
WKAF67



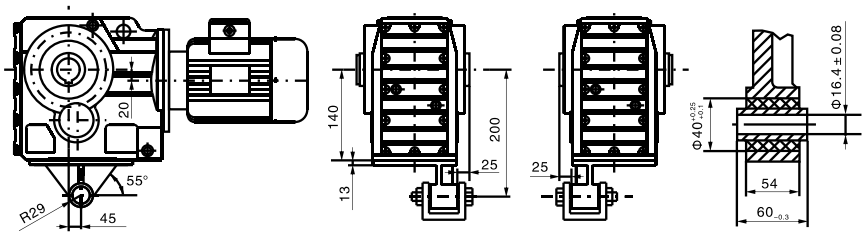


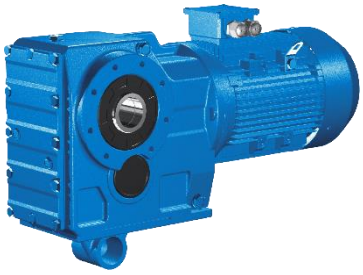
WKAZ67



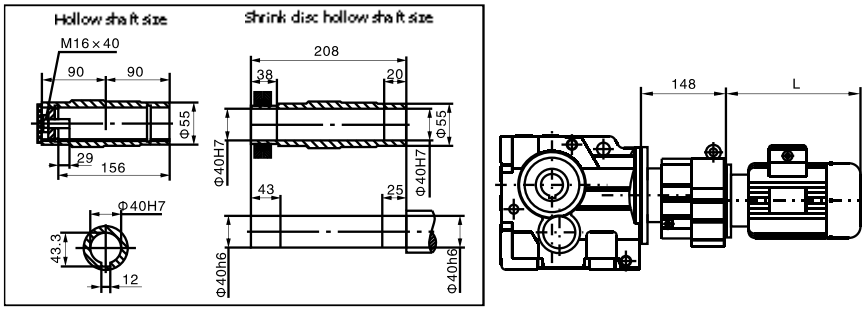


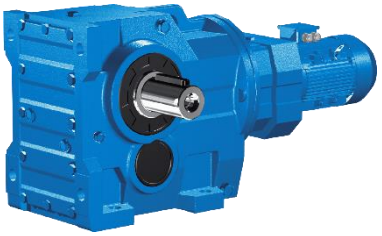
WKAT67



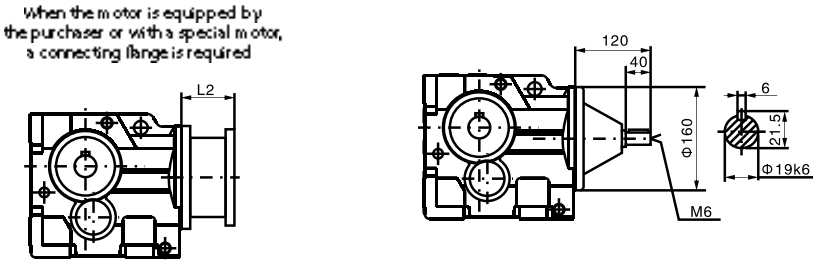


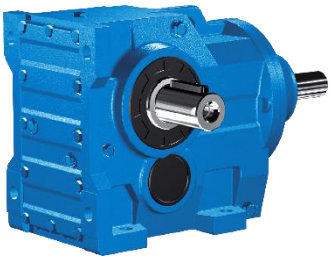
WK..67WR37



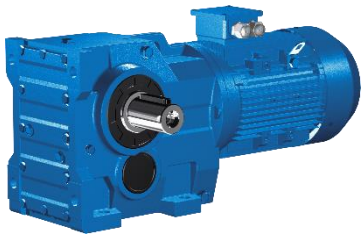


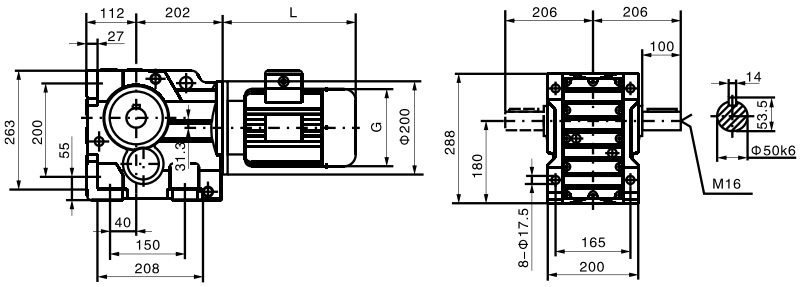
WK..S67



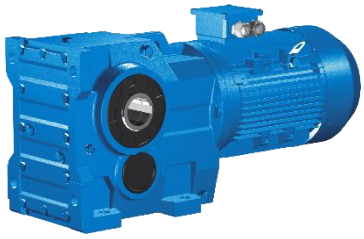


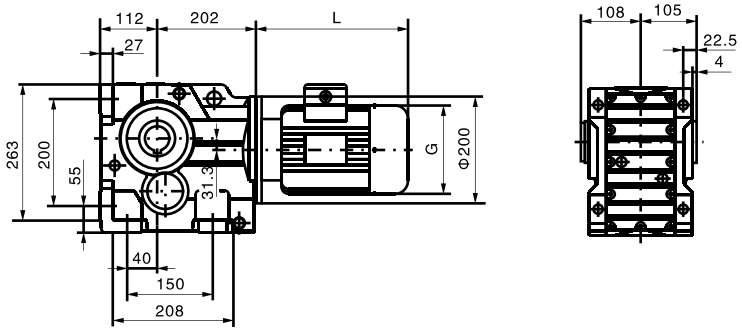
WK77



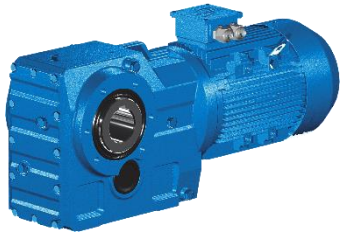


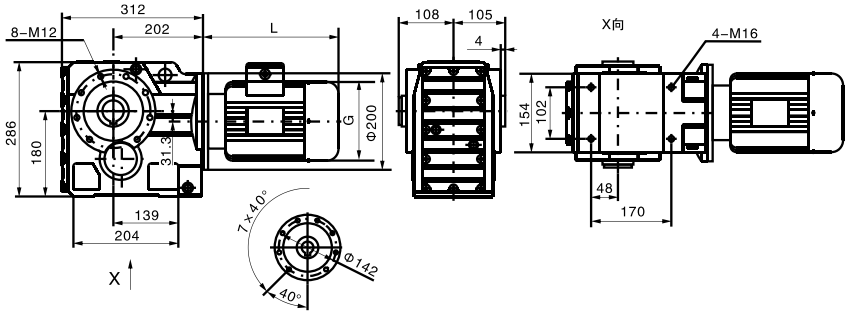
WKB77



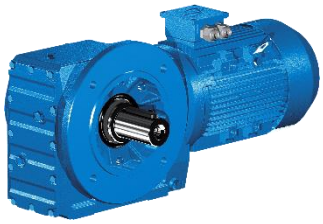


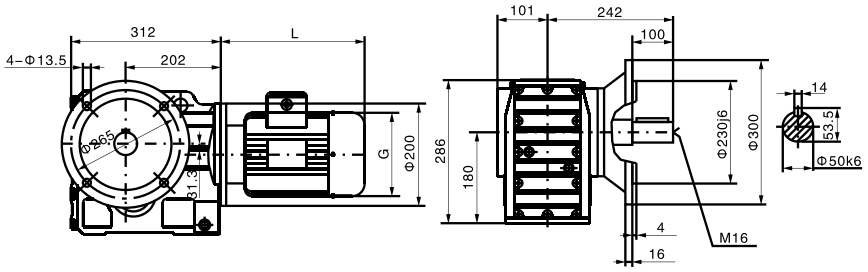
WKA77

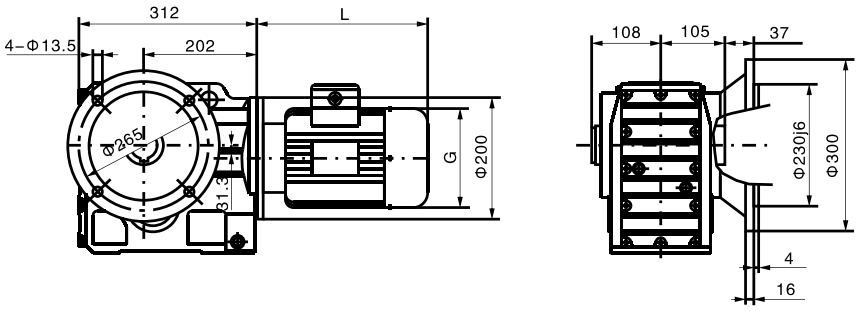




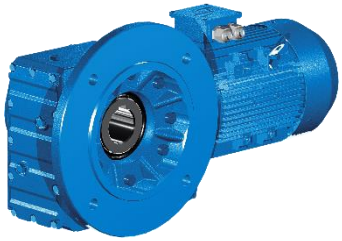
WKF77

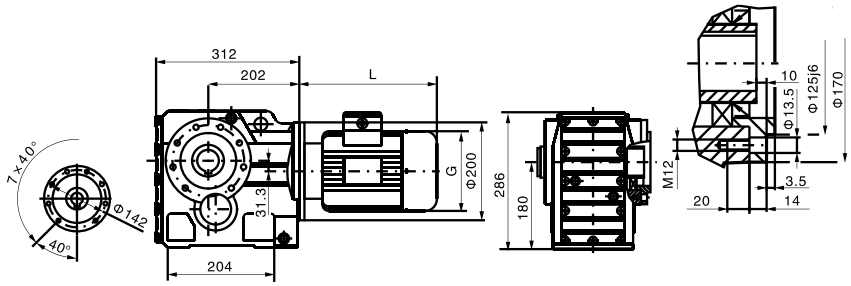




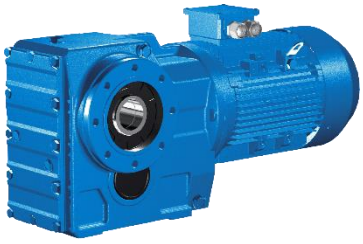


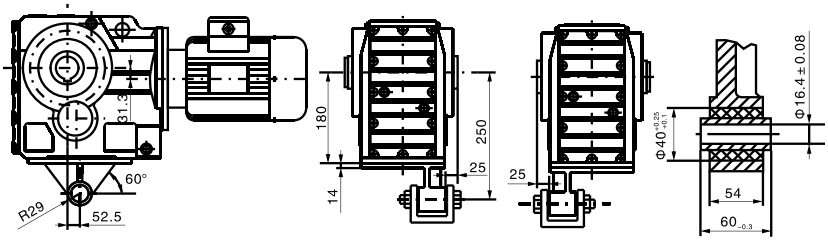
WKAF77



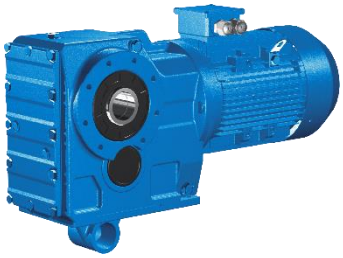


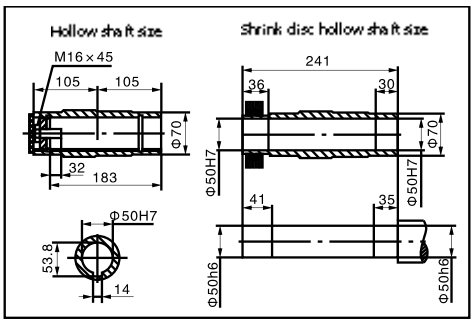
WKAZ77

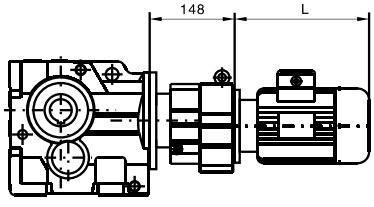




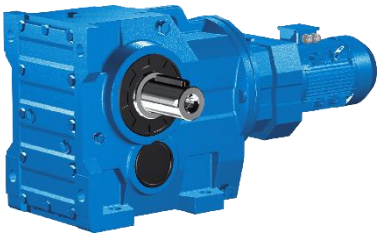
WKAT77



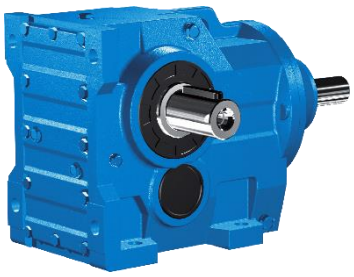


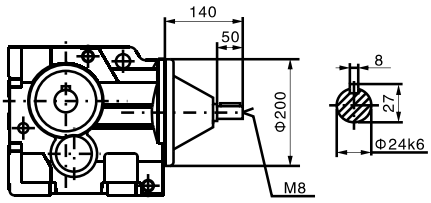


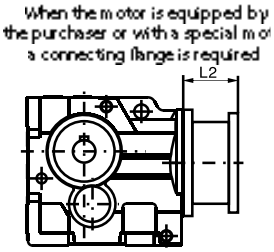
WK..77WR37



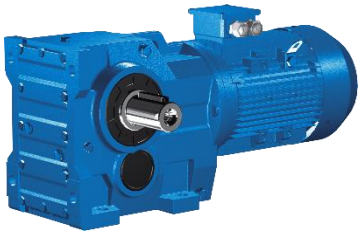
WK..S77

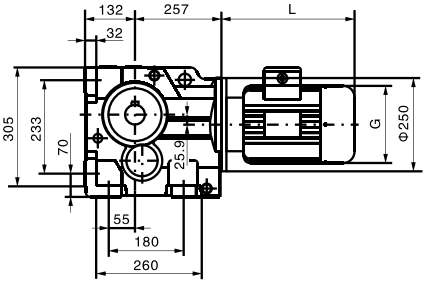


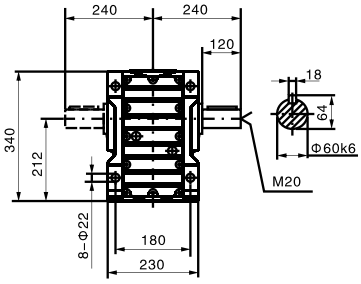




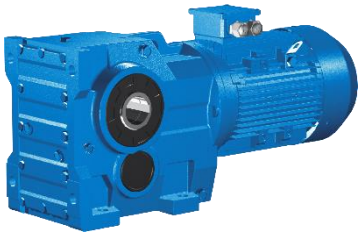
WK87

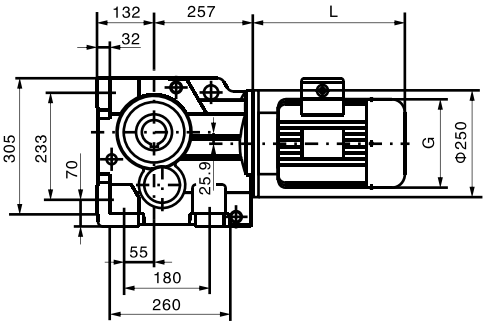


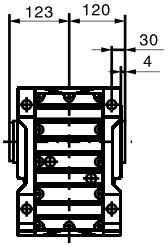




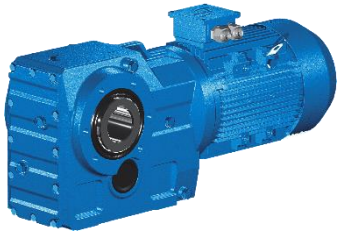
WKAB87

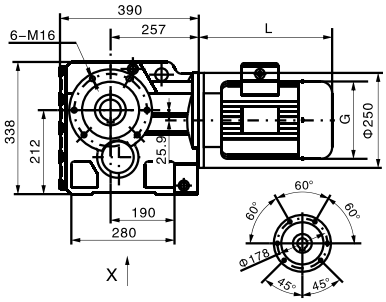


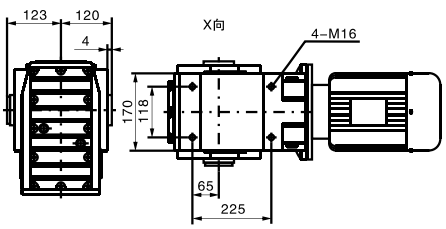




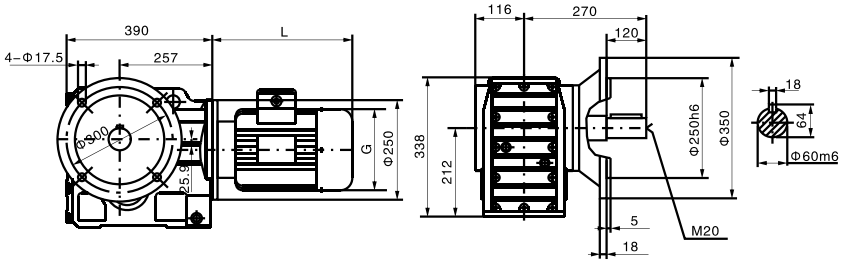
WKA87

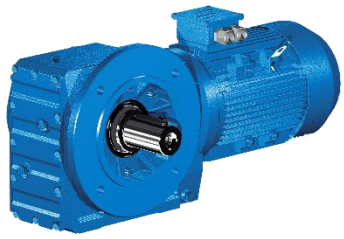




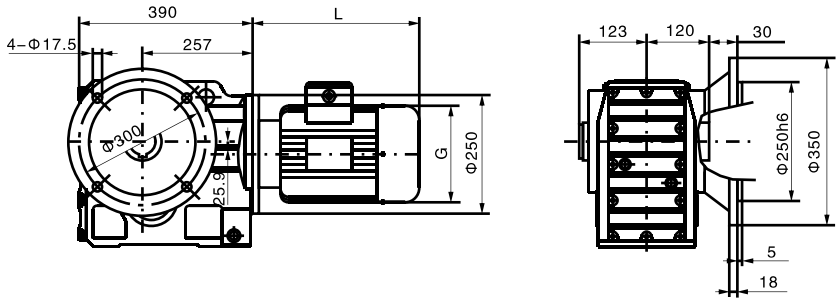


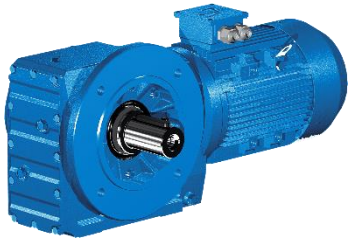
WKF87



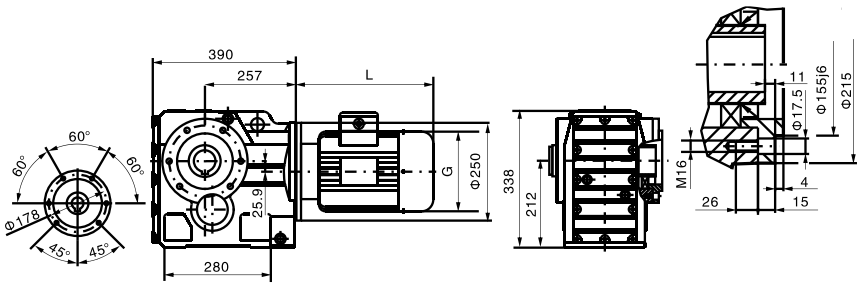


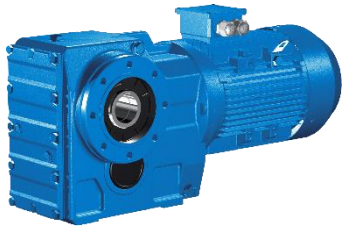
WKAF87



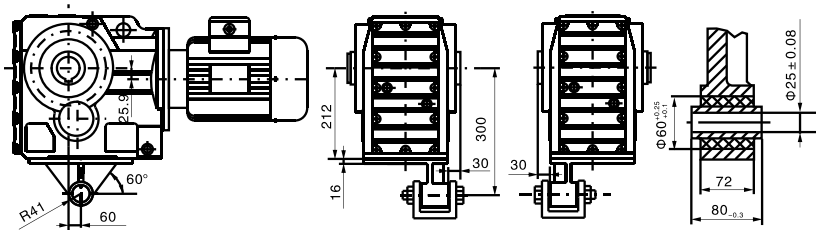


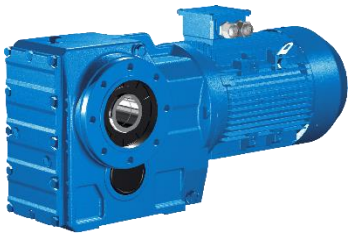
WKAZ87



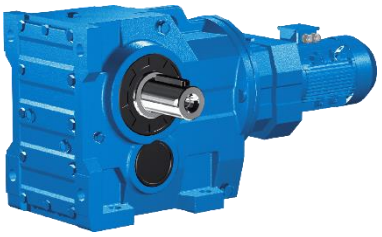


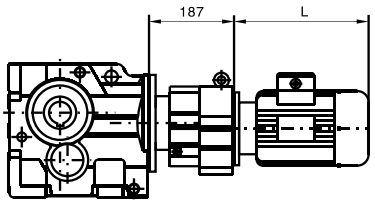
WKAT87

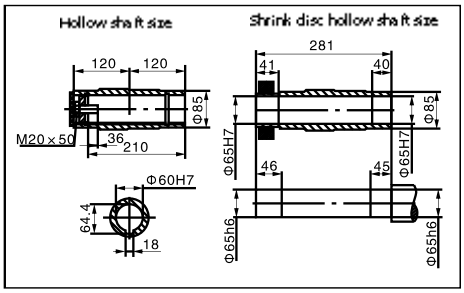




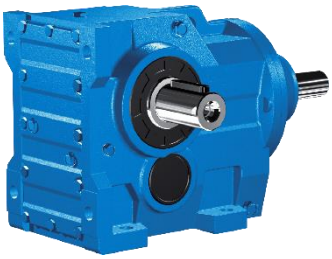
WK..87WR57

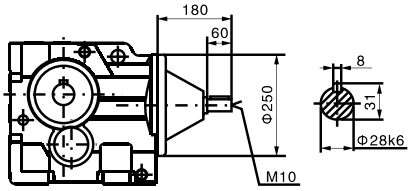


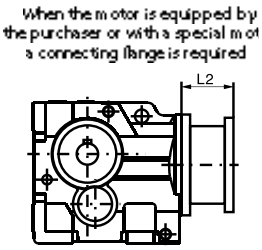




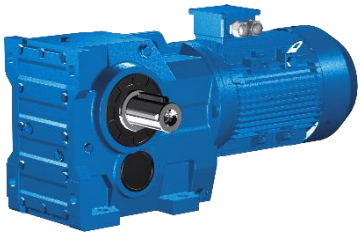
WK..S87

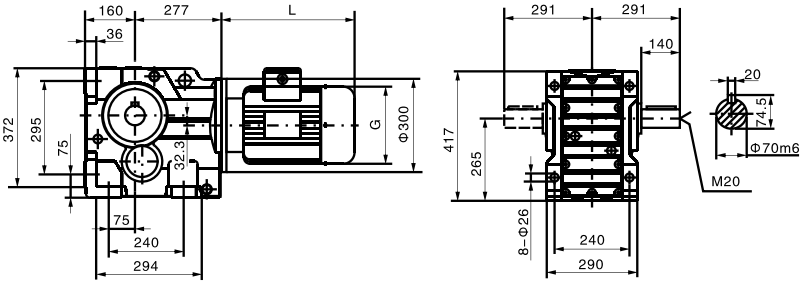




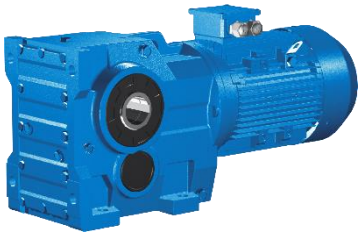


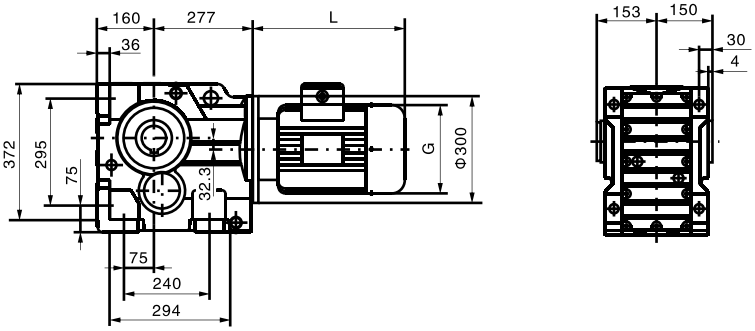
WK97

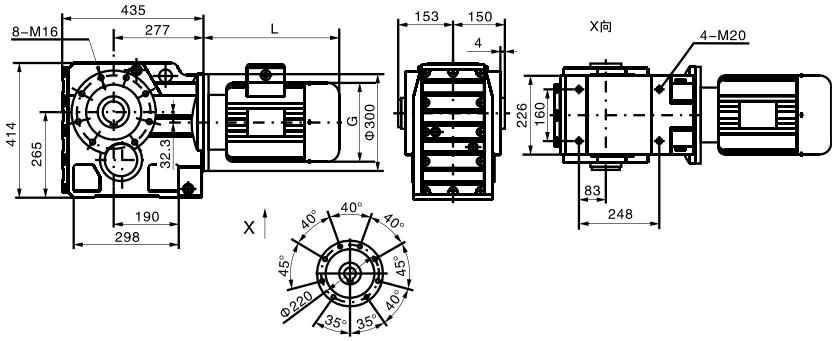




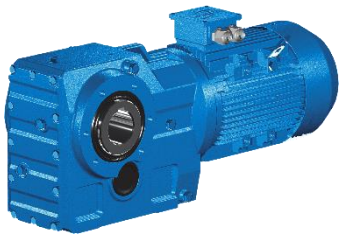
WKAB97

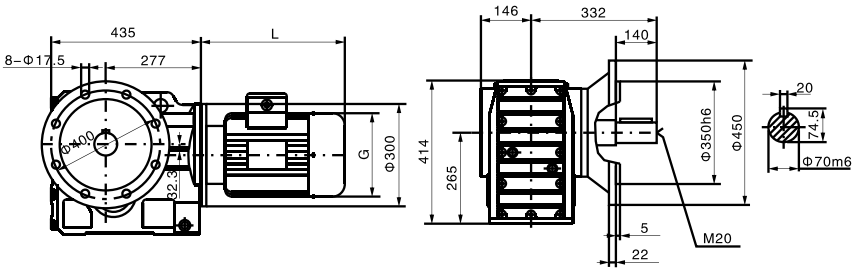




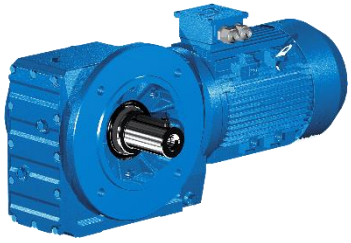


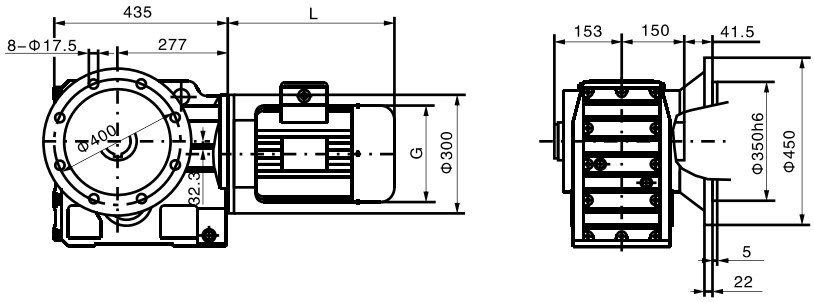
WKF97



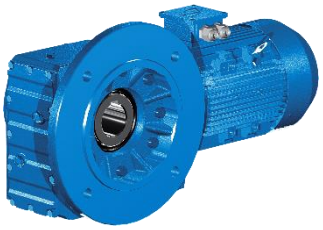


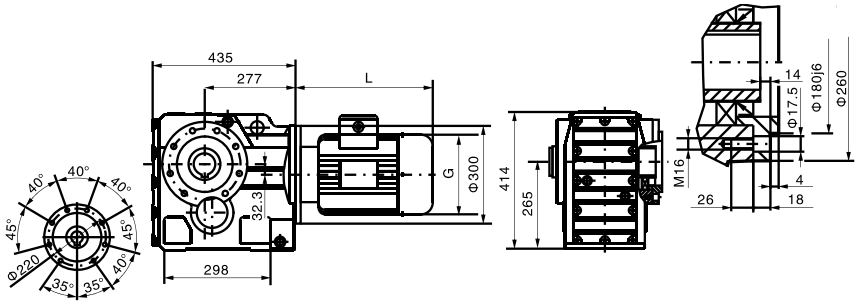
WKF97



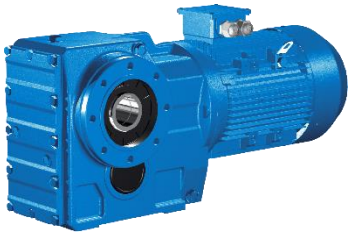


WKAF97

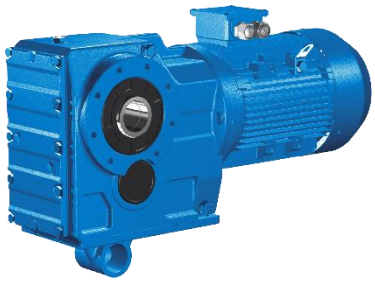


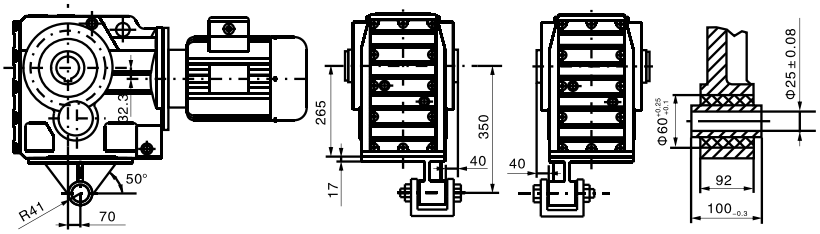


WKAZ97

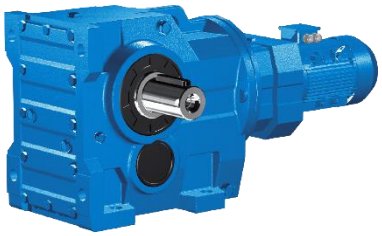


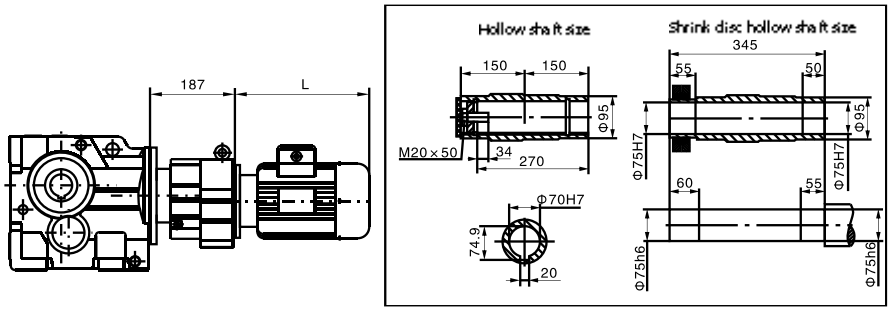
WKAT97



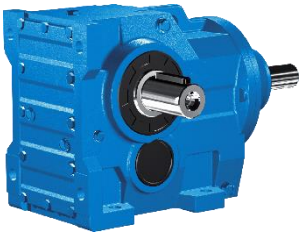


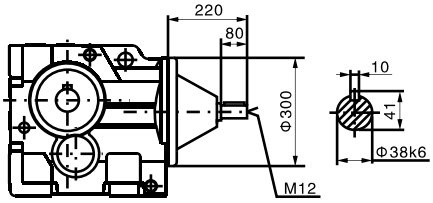
WK..97WR57

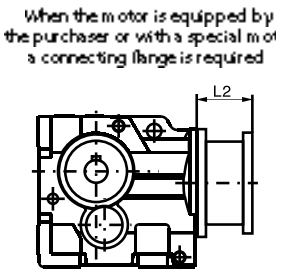




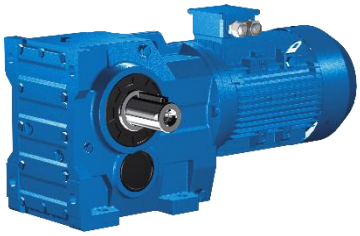
WK..S97

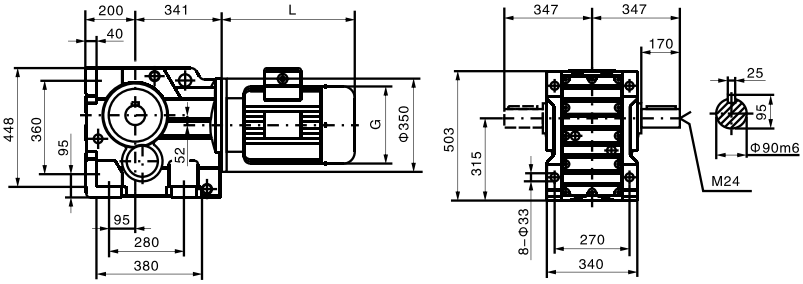


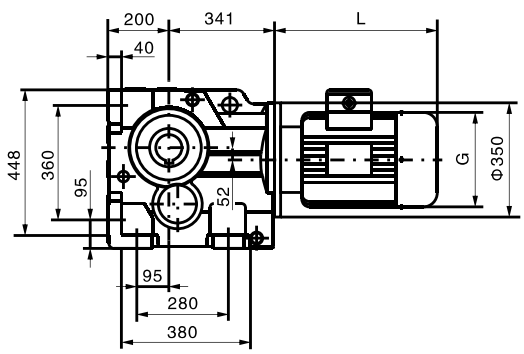


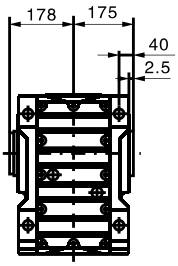


WK107

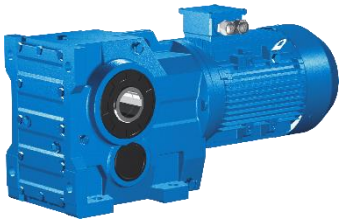


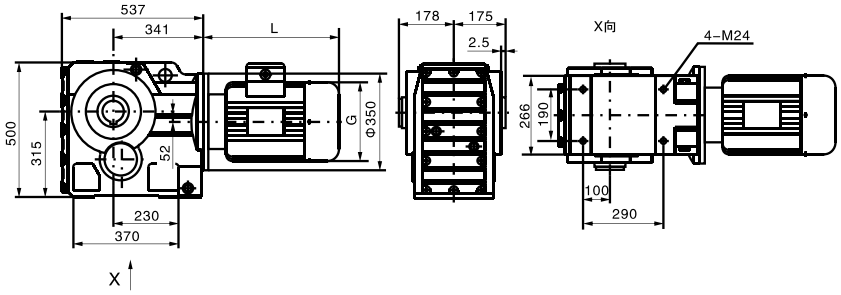




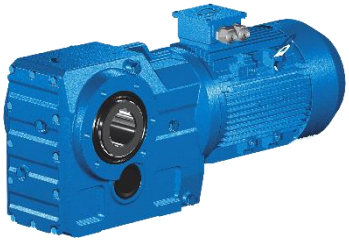


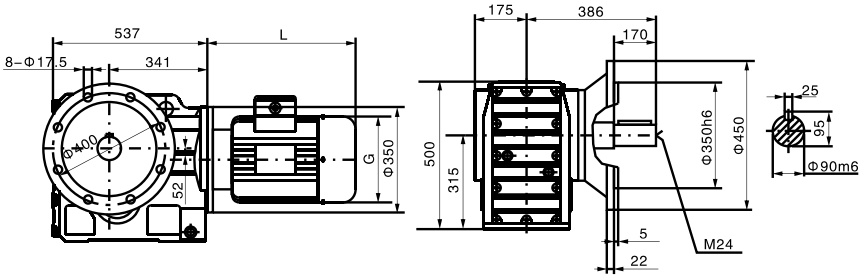
WKAB107



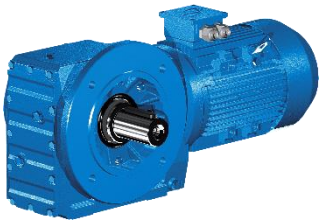


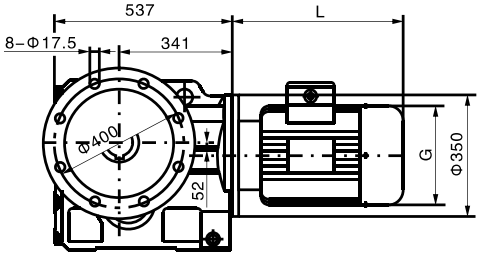
WKA107

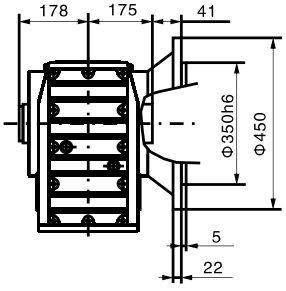




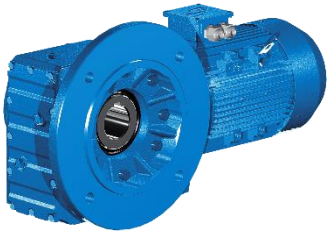
WKF107



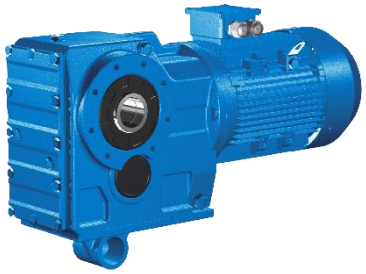


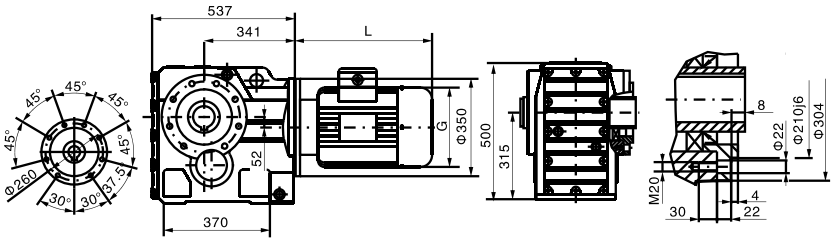


WKAF107

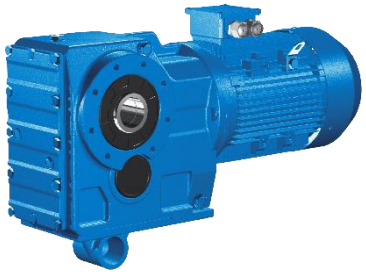


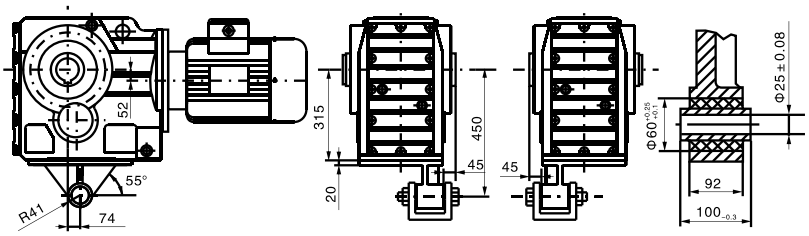
WKAZ107



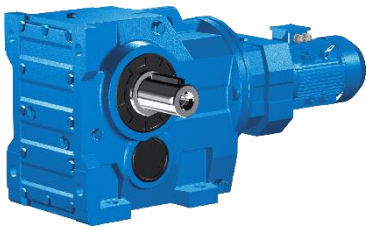


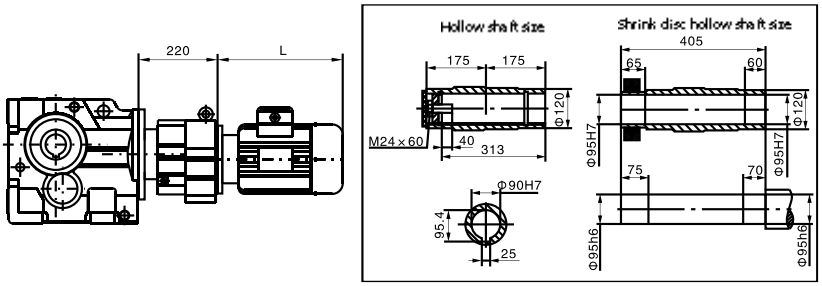
WKAT107



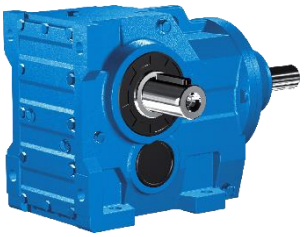


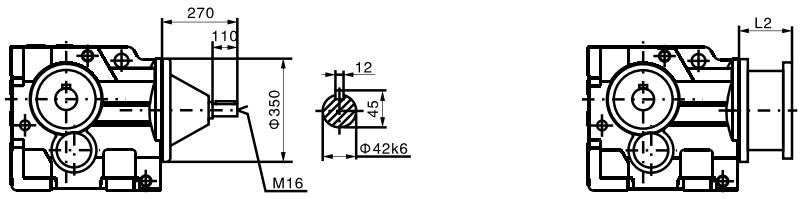
WK..107WR77

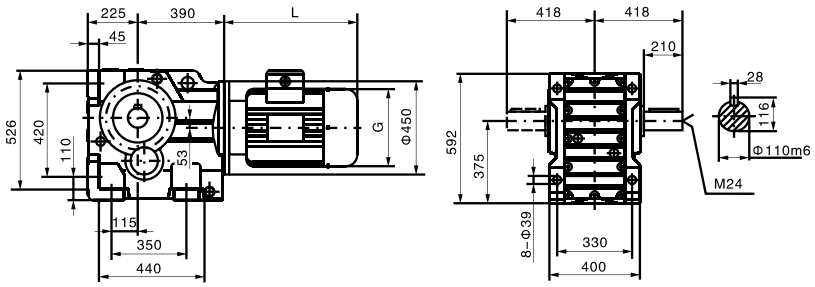




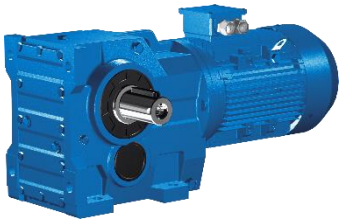
WK..S107

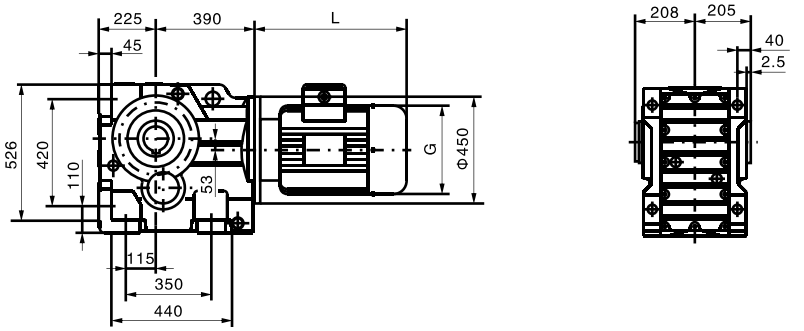




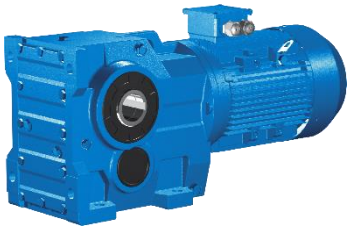


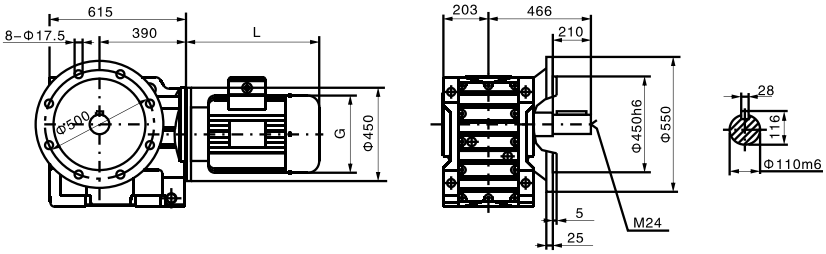
WK127



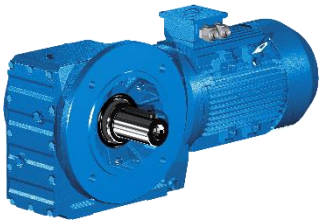


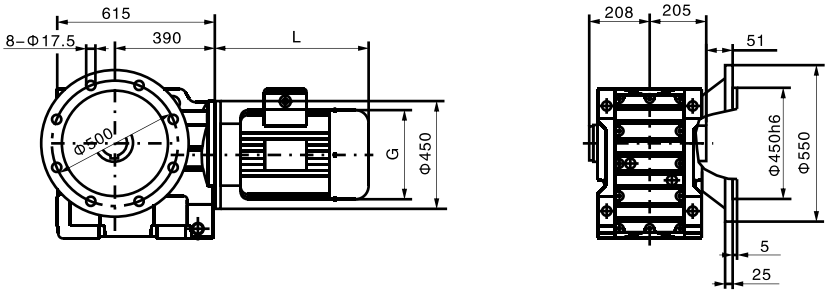
WKAB127



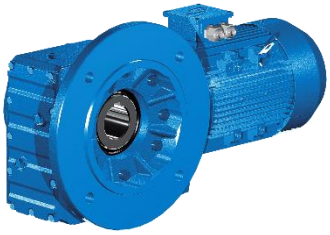


WKF127

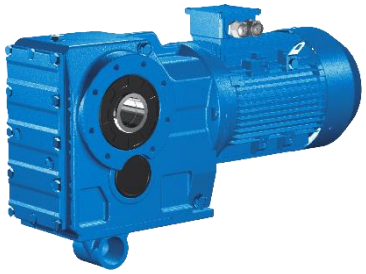


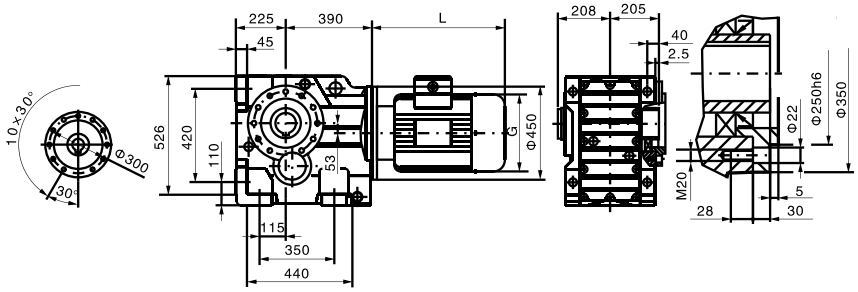


WKAF127

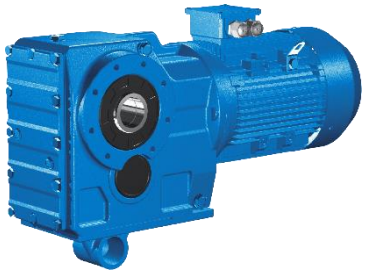


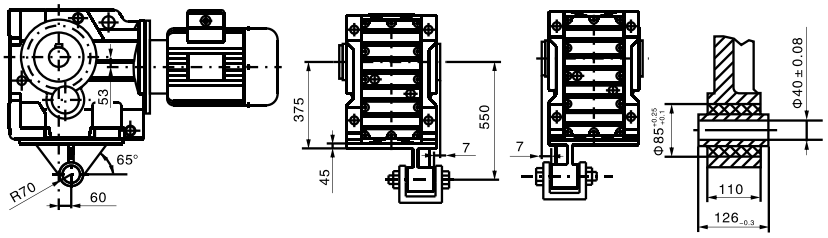
WKAZ127



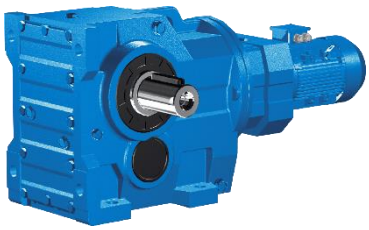


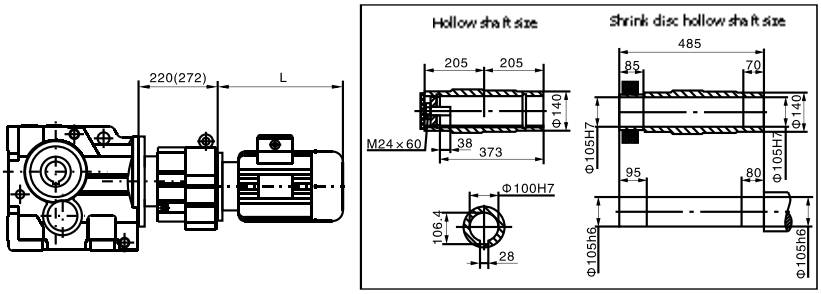
WKAT127



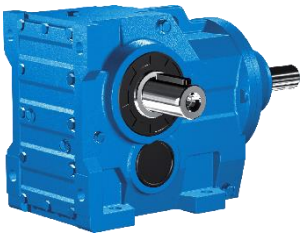


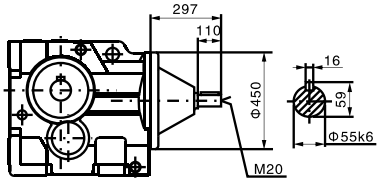
WK..127WR77 (87)



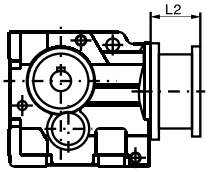


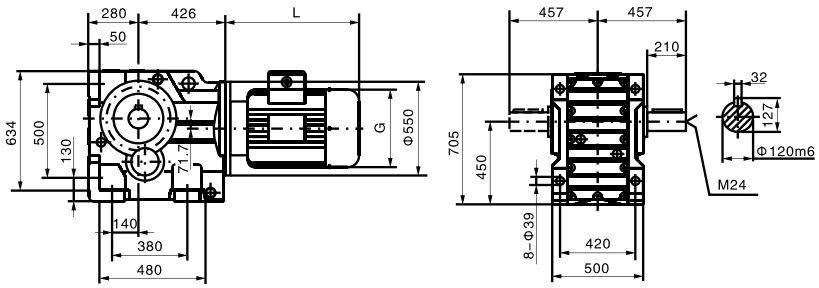
WK..S127



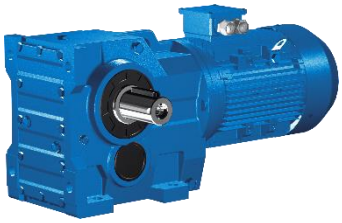


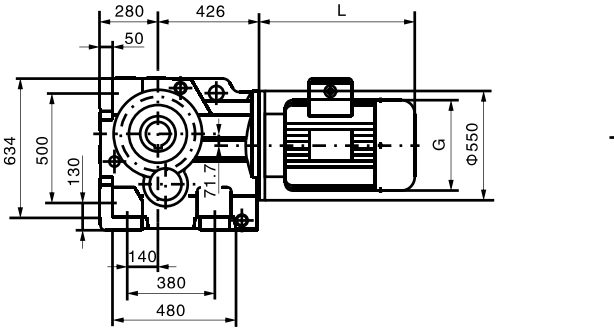
When the motor is equipped by the purchaser or with a special m o a connecting flange is required



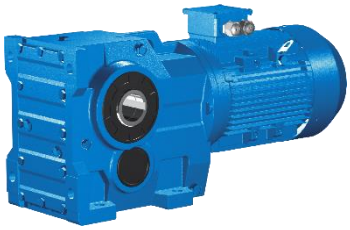


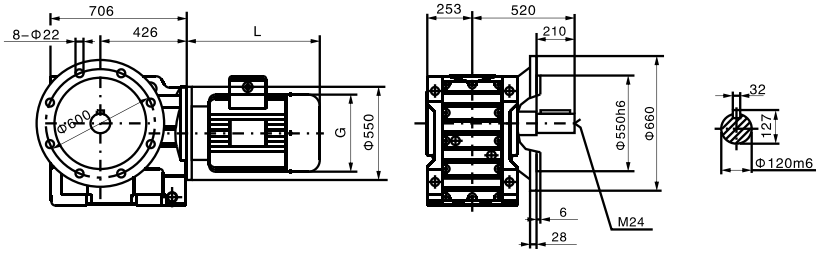
WK157



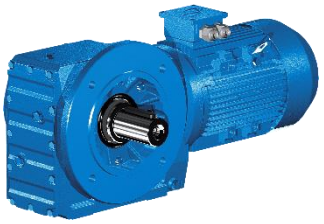


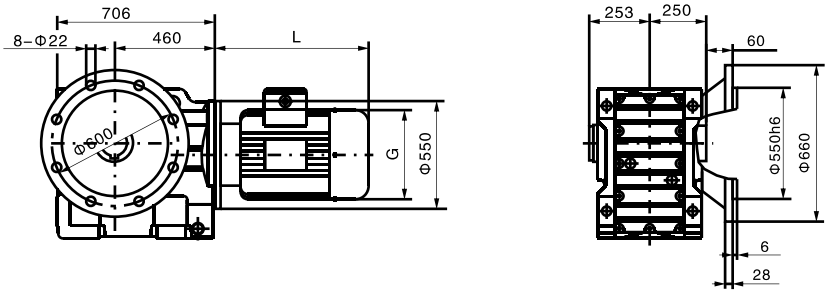
WKAB157



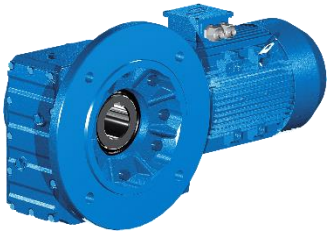


WKF157

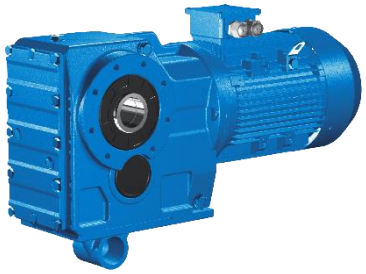


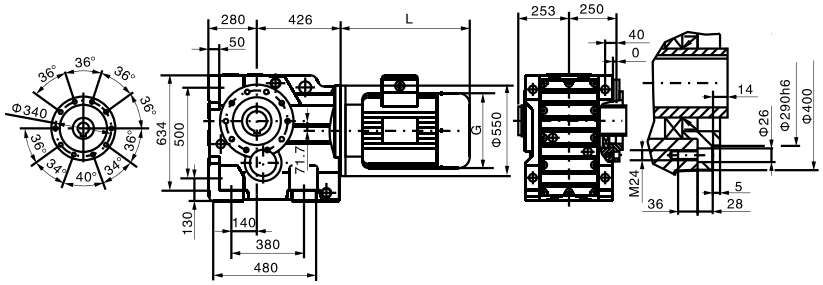


WKAF157

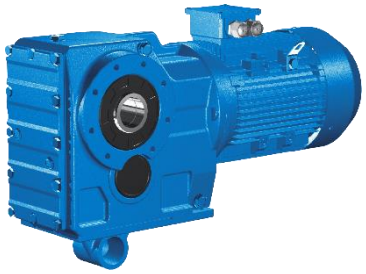


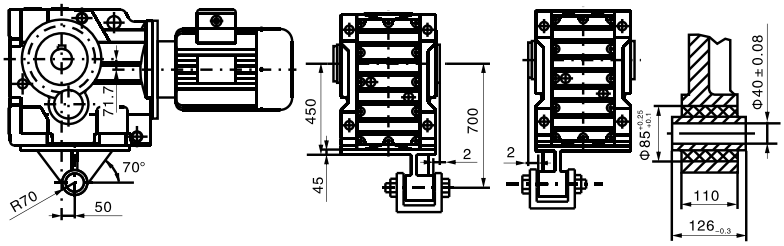
WKAZ157



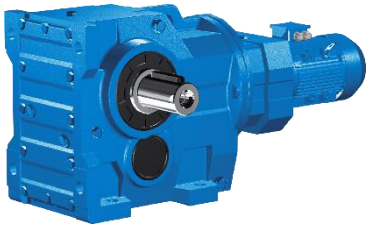


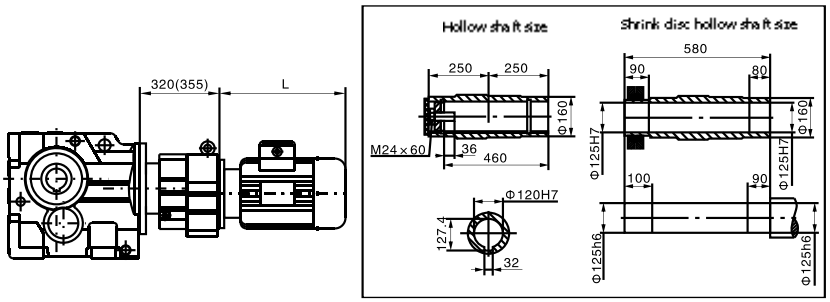
WKAT157



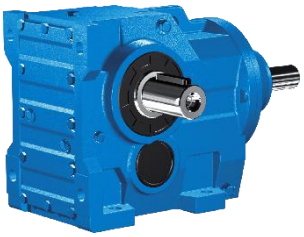


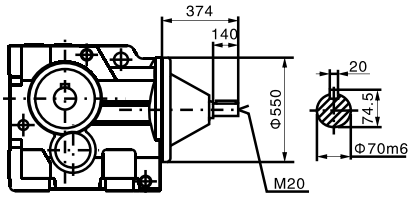
WK..157WR97 (107)

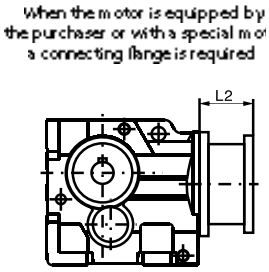




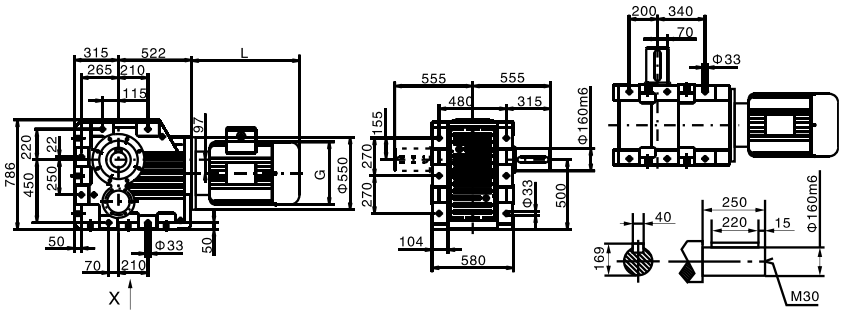
WK..S157

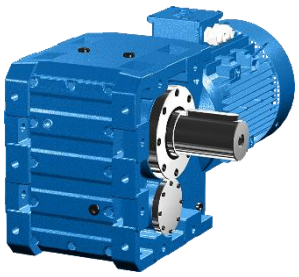




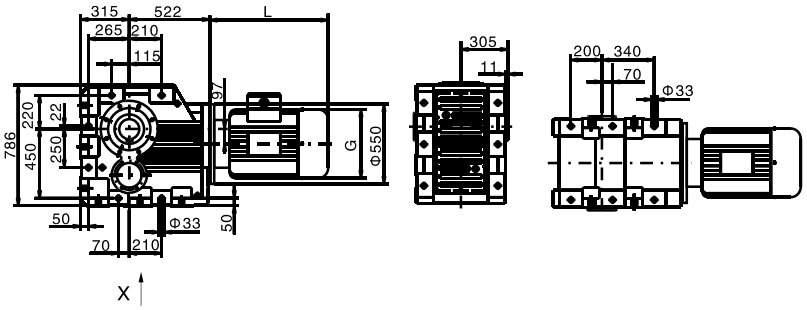


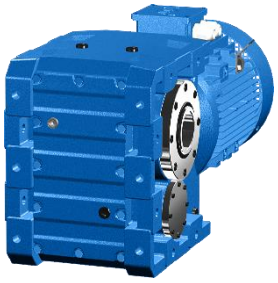
WK167



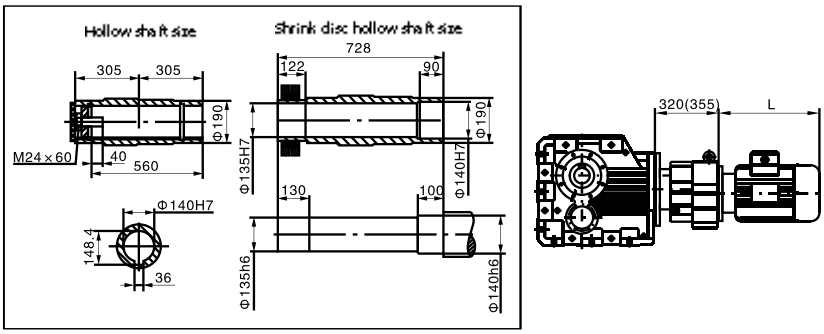


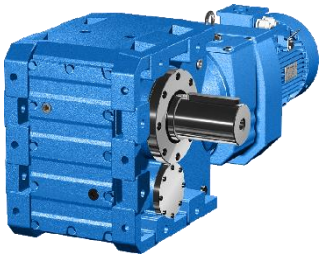
WKA167





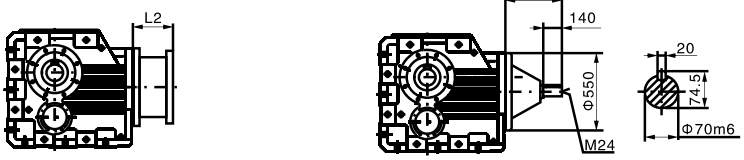
WK..167WR97 (107)

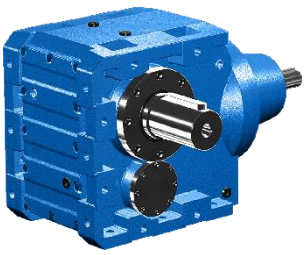




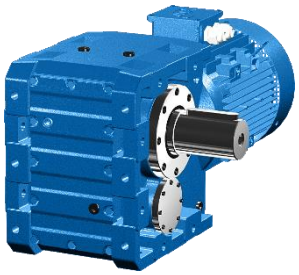
WK..S167

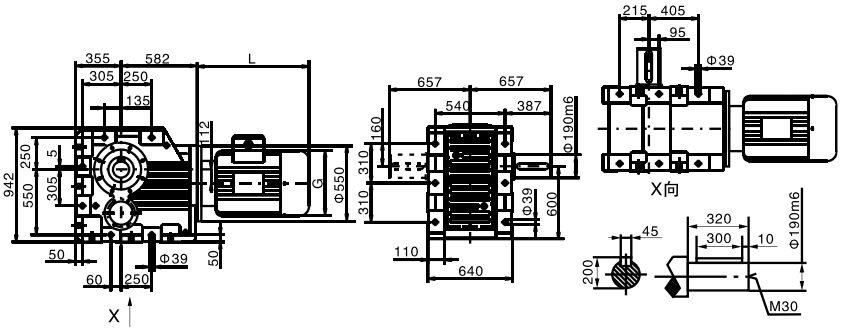
When the motor is equipped by the purchaser or with a special motor, a connecting flange is required



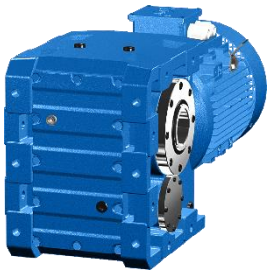


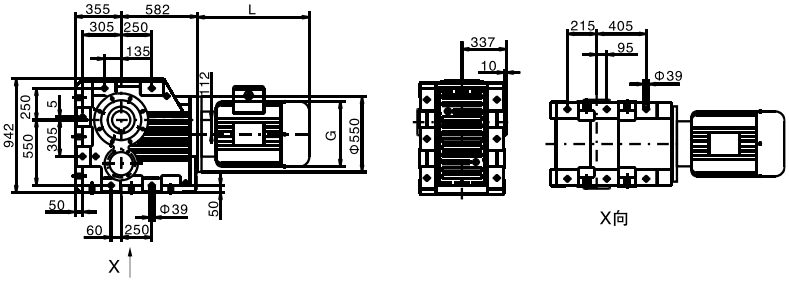
WK187



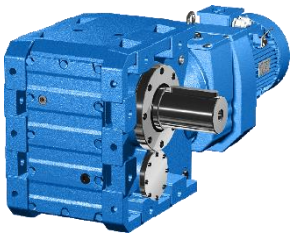


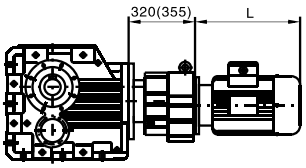
WKA187

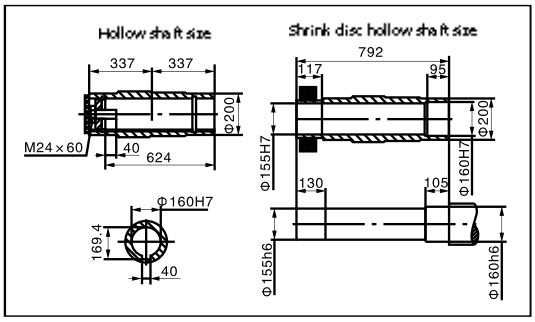




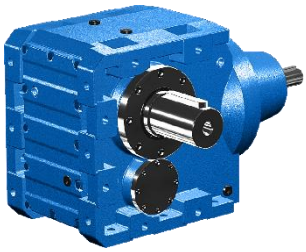
WK..187WR97 (107)

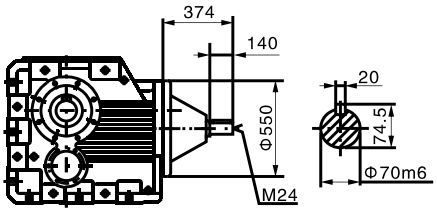




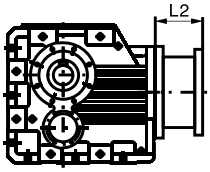


WK..S187





When the motor is equipped by the purchaser or with a special mo a connecting flange is required



FUJITA
HEAVY DUTY ELECTRIC MOTORS

BEST EQUIPMENT

SHAFT HELICAL

WF Series Parallel Gear Motor

FUJITA reductors 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 reductors can fit motors with different power, so that it's possible for different types of machines to combine or connect.

WF

Foot-mounted parallel shaft helical gear reductor

WFAB

Foot-mounted parallel shaft helical gear reductor with hollow shaft

WFF

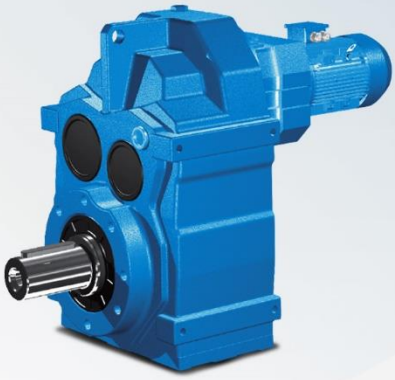
Parallel shaft helical gear reductor in B5 flange-mounted version

WFAF

Parallel shaft helical gear reductor in B5 flange-mounted version with hollow shaft

WFAZ

Short-flange mounted parallel shaft helical gear reducror with hollow shaft



WF..WR

Combination of WF series reductor and WR..7 series reductor

WF..S

Input-shaft style, in another word, parallel shaft helical gear reductorequipped with input shaft but without the motor

CHARACTERISTIC

1. FUJITA reductors 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 reductors 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, the bottom feet installs the machine that deceleration machine have two bottom feets processes to install the flat surface.

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 1.800 r/m. The circumferential speed of the gear should not exceed 20m/s.
4. Suitable for normal-reverse rotation.
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 determined before deciding the service factor. The load classifications is calculated with the following formula

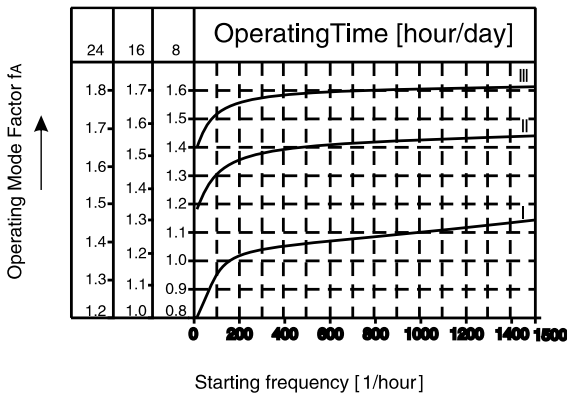
LOAD CLASSIFICATION

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

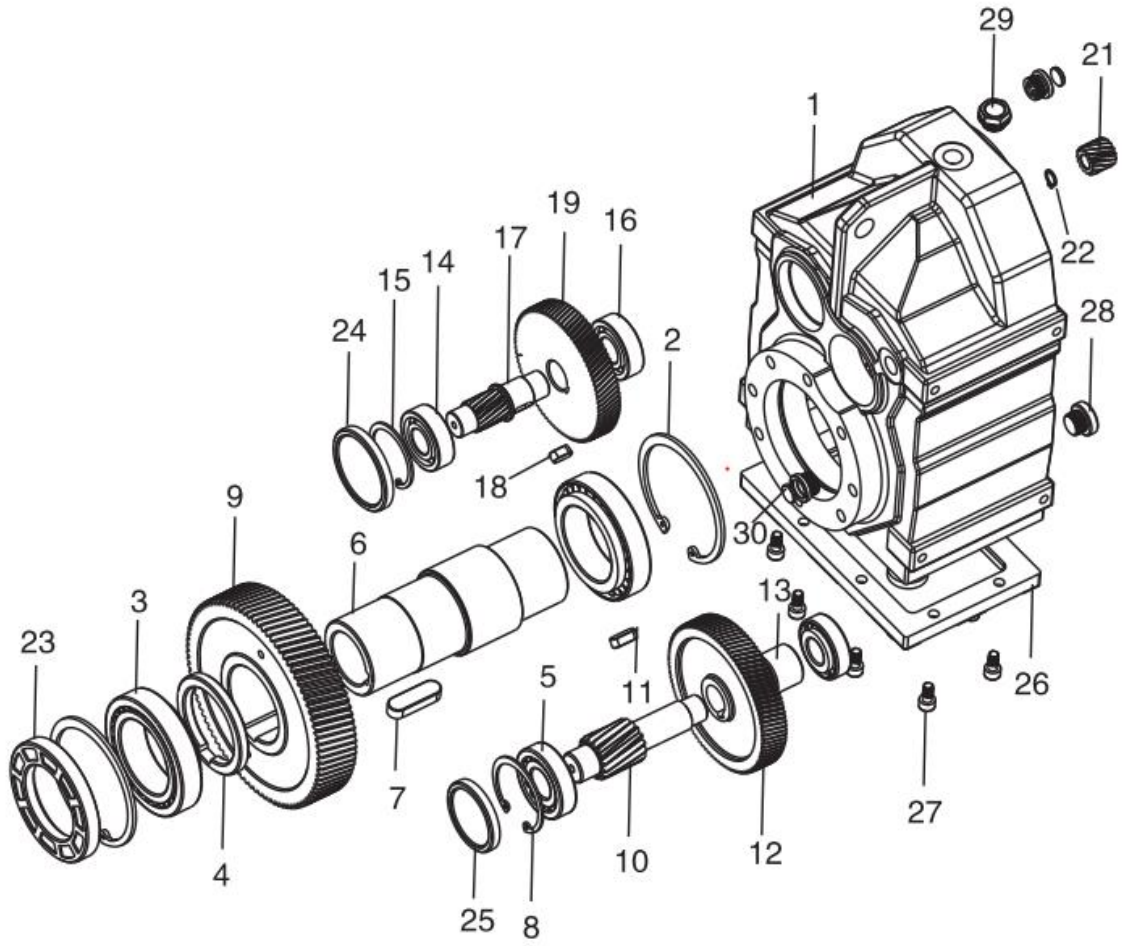
$$\text{Mass acceleration factor+=} \frac{\text{All external mass moments of Inertia}}{\text{Mass moment of inertia on the motor end}}$$

The actual operating mode factor (f_A) should meet the following formula: Service factor fs = operating mode factor fa
The service factor f_B 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 reductor, please refer to the attached Instruction Manual of the Reductor and the Variable Speed Motor.



WF SERIES STRUCTRUE DRAWING



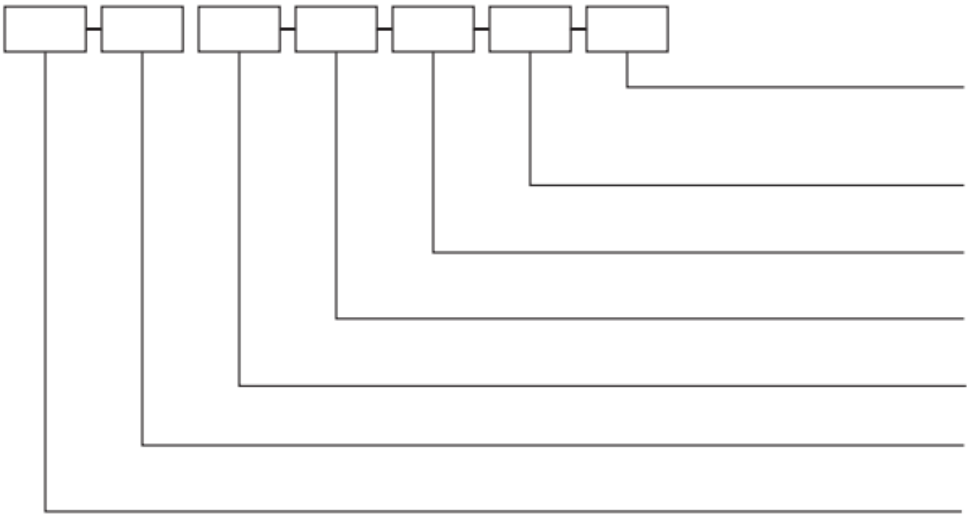
1	Housing	16	Bearing
2	Circlip for hole	17	Second-stage gear shaft
3	Bearing	18	Key
4	Washer	19	First stage big gear
5	Bearing	21	First stage big gear
6	Output shaft	22	Circlip for shaft
7	Key	23	Oil seal
8	Circlip for hole	24	Grand
9	First-stafe big gear	25	Grand
10	Second-stage gear shaft	26	Cover plate
11	Key	27	Bolt
12	Second-stage big bear	28	Breather
13	Shaft sleeve	29	Breather
14	Bearing	30	Oil gauge
15	Circlip for hole		

Type, specification and model notation for WF series parallel shaft bevel gear speed reducers.:

Types, specifications of this series speed reducer have 10 kinds including WF 37, 47, 57, 67, 77, 87, 97, 107, 127, 157 etc,

Speed reducing ratio: 4.07~205, which can be allocated to 0.18~132kW.

INSTRUCTIONS FOR MODELS



The direction (angle) of the motor connection box

Mounting position

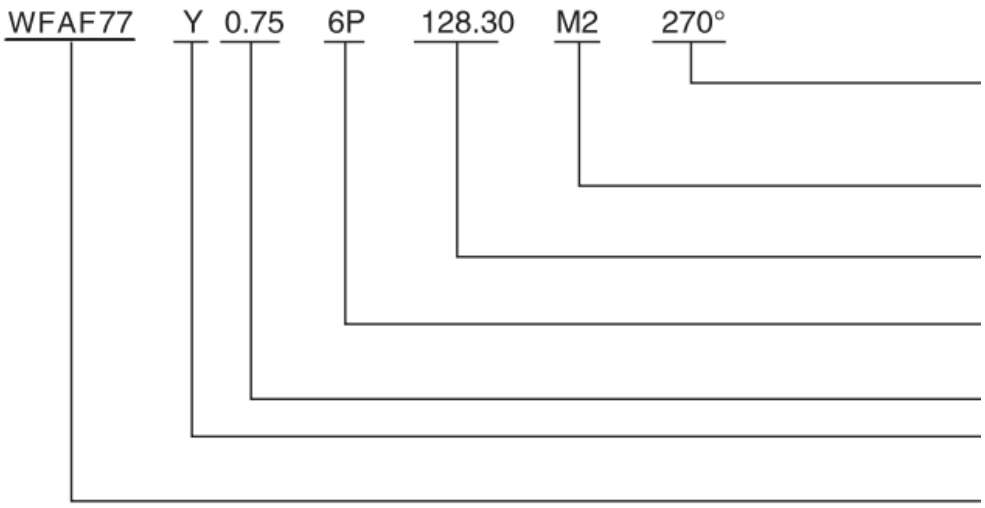
Ratio

Motor pole

Motor power

The codes for motor types

The mounting type of the reductor & specifications



The motor connecting box is at the position of 270° in the mounting position example.

Mounting position: M2

Ratio: 128.30

Poles 6

0.75kW

Motors of Y series

Specification 77 for model WFAF

Note:

1. The input-shaft style is not equipped with any motor.
2. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
3. The mounting position of M1 as shown in the mounting position example is the default way when supplying unless otherwise specified.
4. 0° as shown in the mounting position example is the default connection box angle when supplying unless otherwise specified.
5. Please contact our technical supporting department in case there's any special requirements on the output and input rotatory directions.
6. About Motor size, please check table of motor's dimensions.

CODES FOR MOTOR TYPES

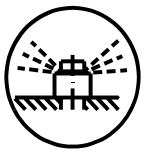
Y Series	Y	Flame-proof Motor	YB	Direct Current Motor
Brake Motor	YEJ	Roll Motor	YG	Variable Frequency Motor

LENGTH OF CONNECT FLANGE L2

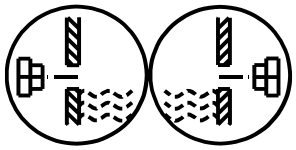
The form on length of the connect flange L2 of the parallel shaft helical gear reductor of WF series

Motor frame size / Reductor type	63	71	80	90	100	112	132	160	180	200	225	250	280	315
WF37	61.5	61.5	80	80	98	-	-	-	-	-	-	-	-	-
WF47	61.5	61.5	80	80	98	-	-	-	-	-	-	-	-	-
WF57	56	56	74.5	74.5	90.5	90.5	-	-	-	-	-	-	-	-
WF67	56	56	74.5	74.5	90.5	90.5	123	-	-	-	-	-	-	-
WF77	50	50	68.5	68.5	82.5	82.5	111	152.5	-	-	-	-	-	-
WF87	-	-	63.5	63.5	78.5	78.5	106	147.5	147.5	-	-	-	-	-
WF97	-	-	-	57.5	72.5	72.5	101	142.5	142.5	144.5	-	-	-	-
WF107	-	-	-	-	66.5	66.5	95	136.5	136.5	138.5	168.5	-	-	-
WF127	-	-	-	-	-	-	80	121.5	121.5	123.5	153.5	153.5	153.5	-
WF157	-	-	-	-	-	-	-	113.5	113.5	115.5	145.5	145.5	145.5	184

EXPLANATION OF MOUNTING POSITION EXAMPLE



Breather valve



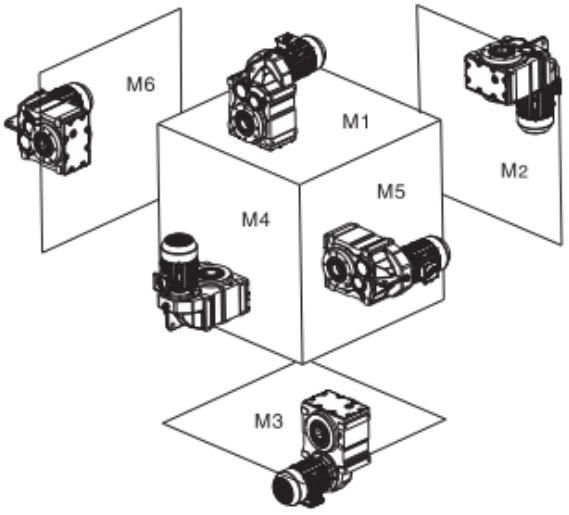
Oil level plug

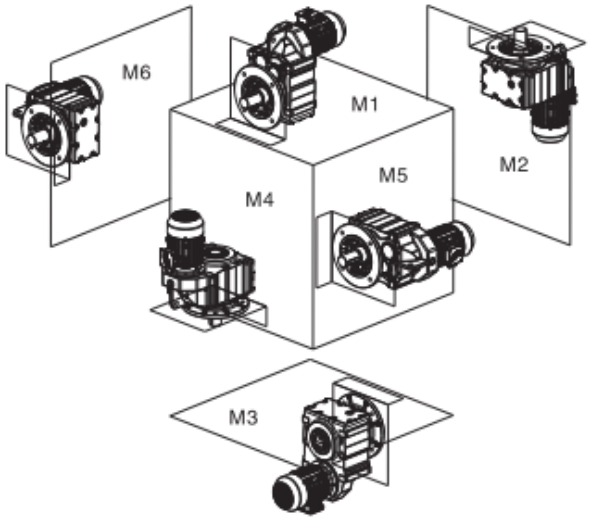
Oil drain plug

EXPLANATION OF PARAMETER SELECTION LIST

Power (kW)	Output Speed (r/min)	Output Torque (N.m)	Ratio (i)	Service Factor (fB)	Type	Motor pole	Weight
0.75	4.5	1603	203.70	0.89	WF 77	6P	99
	4.8	1500	190.60	0.95	WFA 77	6P	110
	5.4	1325	168.40	1.08	WFF 77	6P	96
	6.4	1120	142.30	1.27	WFAF 77	6P	102
	7.1	1010	128.30	1.41			

WF Series Installation Direction Diagram





WF Series Oil Capacity Table (Unit: kg)

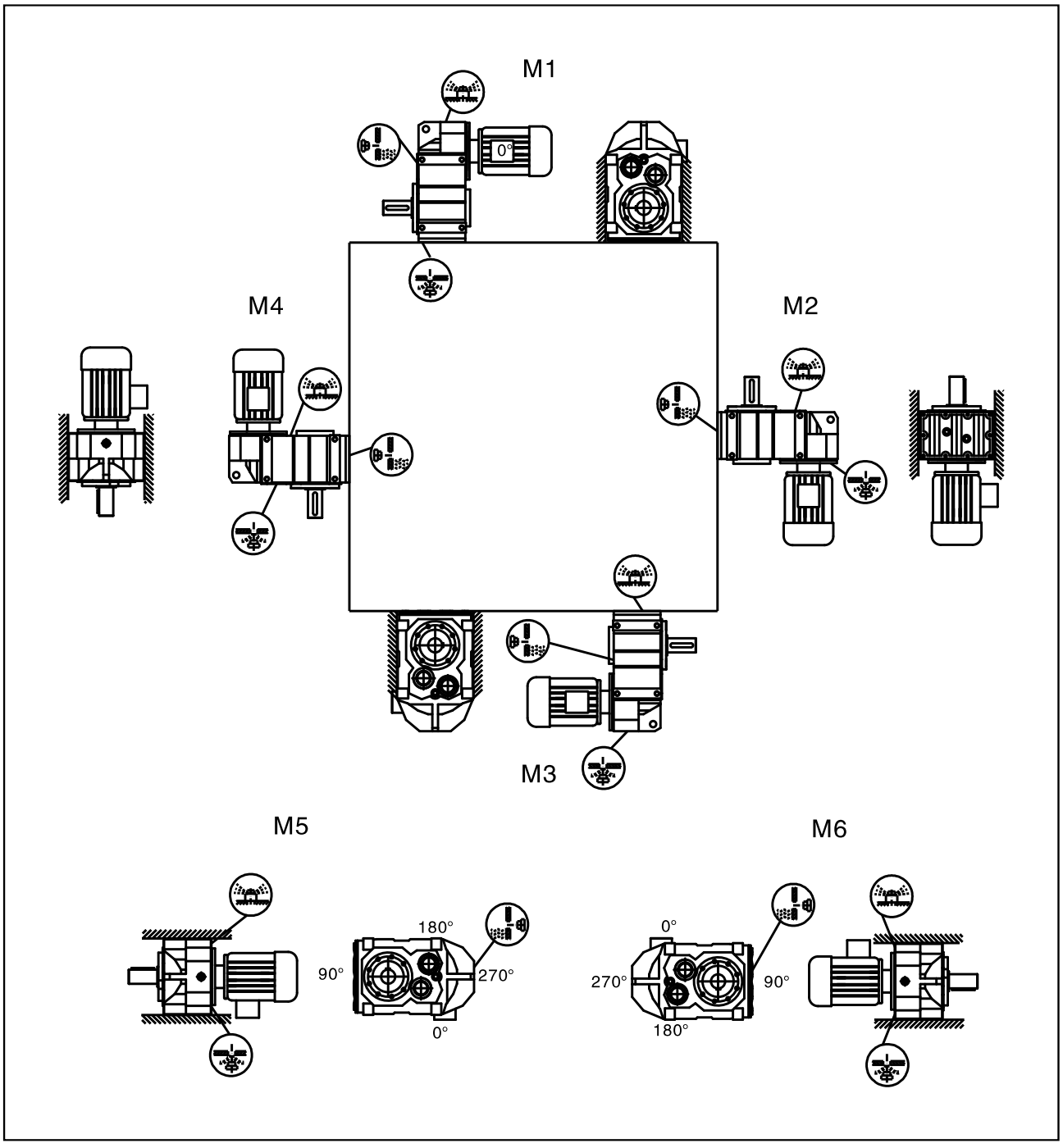
Installation Orientation / Machine Model	M1	M2	M3	M4	M5	M6
WF37	**1**	1.2	0.7	1.2	1	1.1
WF47	1.5	1.8	1.1	1.9	1.5	1.7
WF57	2.5	3.6	**2**	3.4	2.7	2.8
WF67	2.7	3.8	2.1	3.9	2.9	3.2
WF77	5.1	7.3	4.4	82	6.1	6.3
WF87	9.3	12	7.1	12.8	10	10.2
WF97	20.8	25.3	14.2	28.4	20.8	22.5
WF107	26	32	20	39	28	29
WF127	42	56	34	65	46	49
WF157	72	103	65	104	85	80

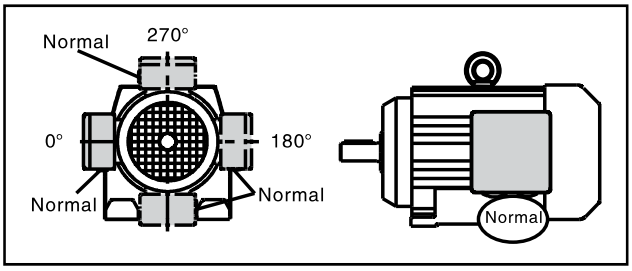
WF SERIES WEIGHT TABLE

Type	WF37	WF47	WF57	WF67	WF77	WF87	WF97	WF107	WF127	WF157
Kg/Weight Kg	13	16.5	27	31	55	100	170	260	400	700

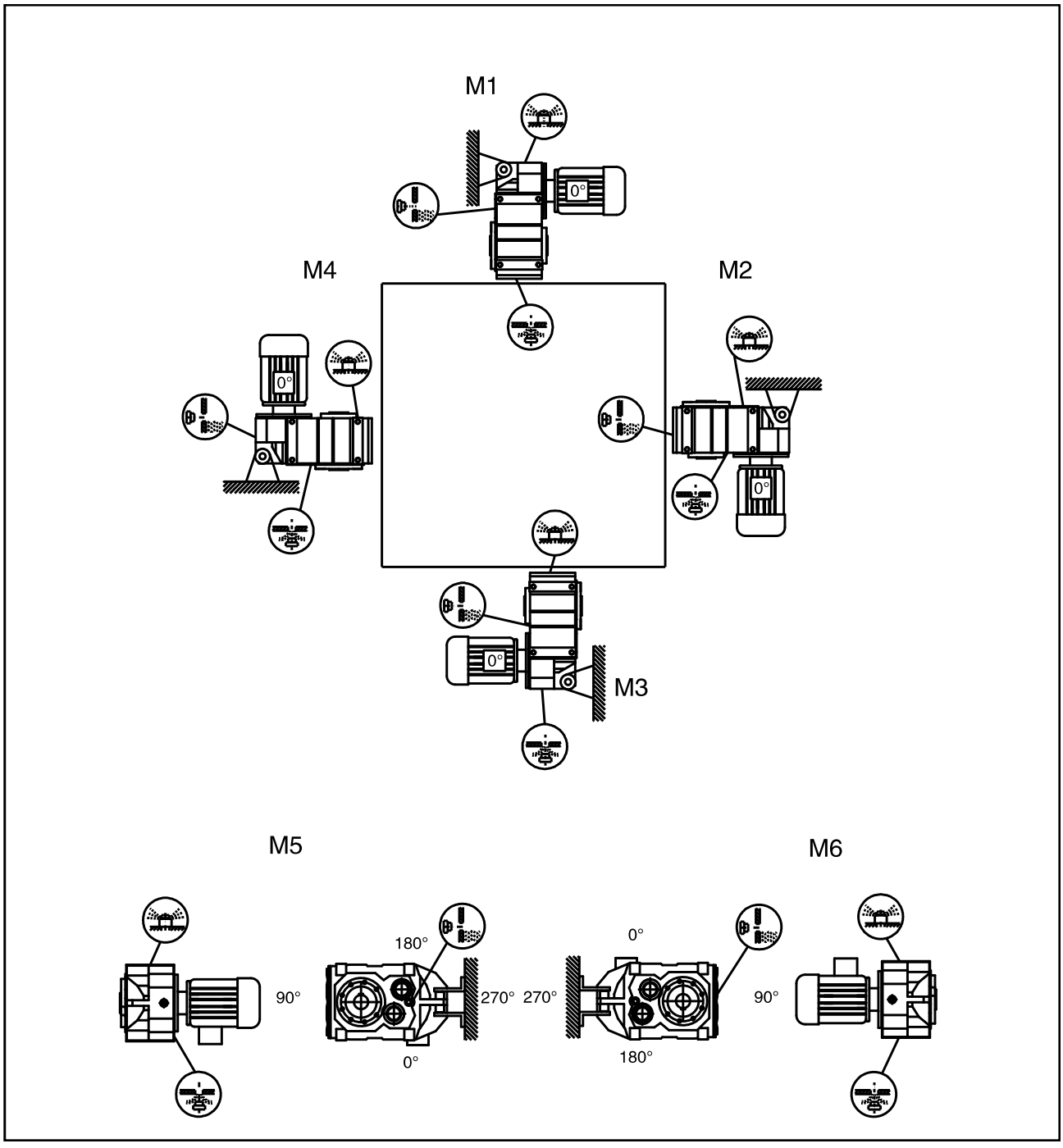
Note: Weight in the table means the weight when oil is not added. When input shaft is furnished, 10% weight should be added; If there is a motor, please add weight according to motor type.

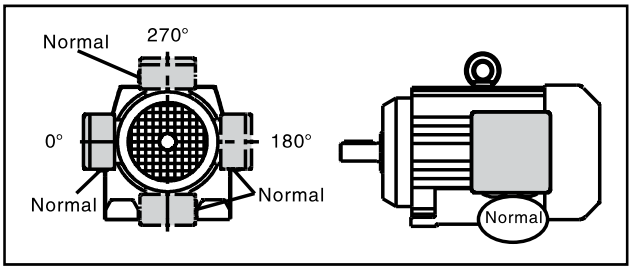
WF/WFAB37-157 Mounting Position Example



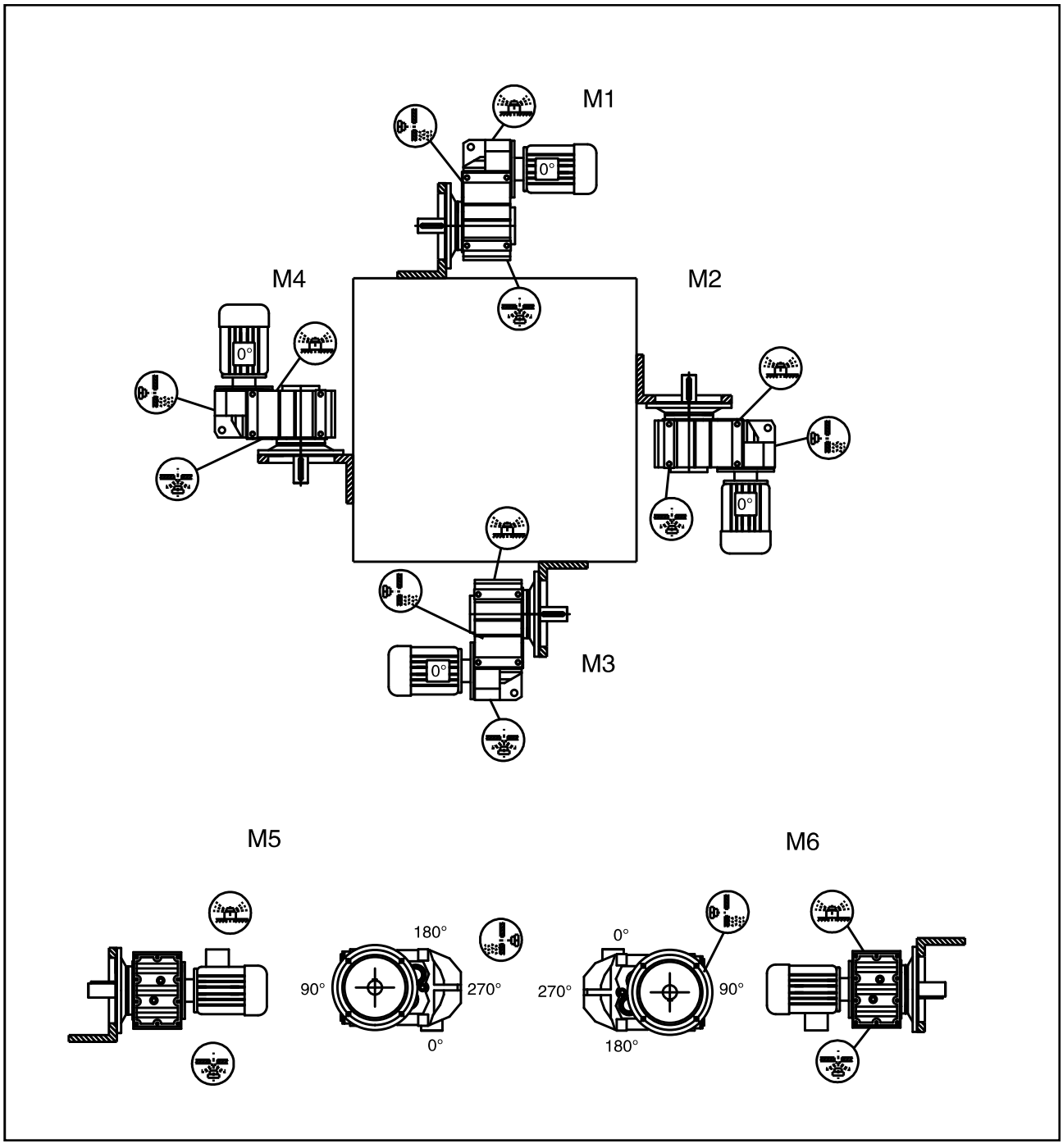


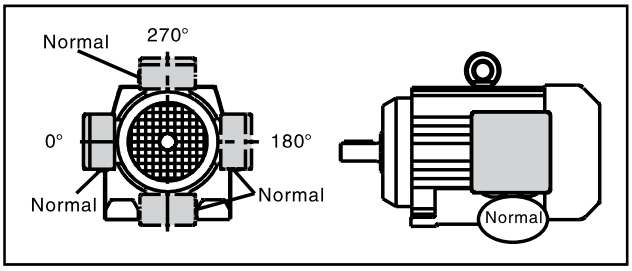
WF/WFAB37-157 Mounting Position Example





WF/WFAB37-157 Mounting Position Example





Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.12 KW					
WFA 127WR77 WFAF 127WR77 WF 127WR77 WFF 127WR77	0.06	15000	22323	0.80	**4P**
	0.07	12600	19048	0.95	
	0.08	10800	16656	1.10	
	0.09	9870	14722	1.20	
	0.11	7980	12912	1.50	
	0.12	7090	11656	1.70	
	0.14	6300	10191	1.90	
WFA 107WR77 WFAF 107WR77 WF 107WR77 WFF 107WR77	0.09	9590	14767	0.80	**4P**
	0.12	7610	11348	1.00	
	0.14	5890	10039	1.30	
	0.16	4880	8548	1.55	
	0.18	4740	7674	1.60	
	0.20	4120	6767	1.85	
	0.23	3530	5954	2.2	
	0.26	3070	5223	2.5	
	0.30	2890	4567	2.7	
	0.39	2140	3521	3.6	
WFA 97WR57 WFAF 97WR57 WF 97WR57 WFF 97WR57	0.19	4800	7328	0.90	**4P**
	0.21	4040	6469	1.05	
	0.25	3680	5615	1.15	
	0.28	3200	4961	1.35	
	0.32	2800	4333	1.55	
	0.35	2550	3906	1.70	
	0.41	2210	3352	1.95	
	0.47	1820	2907	2.4	
	0.54	1670	2553	2.6	
WFA 87WR57 WFAF87WR57 WF 87WR57 WFF 87WR57	0.28	3250	4954	0.90	**4P**
	0.33	2690	4245	1.00	
	0.37	2200	3721	1.35	
	0.43	2140	3244	1.40	
	0.48	1900	2881	1.60	
	0.54	1700	2576	1.75	
	0.63	1440	2199	2.1	
	0.72	1240	1930	2.4	
	0.81	1120	1709	2.7	
	0.92	980	1493	3.0	
	1.1	785	1300	3.8	
	1.2	710	1148	4.2	
WFA 77WR37 WFAF 77WR37 WF 77WR37 WFF 77WR37	0.53	1750	2613	0.85	**4P**
	0.60	1520	2284	1.00	
	0.68	1340	2029	1.10	
	0.80	1130	1728	1.35	
	0.89	1040	1544	1.45	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	1.0	910	1354	1.65	
	1.1	810	1200	1.85	
	1.3	710	1053	2.1	
	1.5	605	910	2.5	
	1.7	501	810	2.9	
	1.9	445	710	3.4	
WFA 67WR37 WFAF 67WR37 WF 67WR37 WFF 67WR37	0.97	920	1429	0.90	**4P**
	1.1	830	1271	1.00	
	1.2	700	1102	1.15	
	1.4	615	970	1.35	
	1.6	540	858	1.50	
	1.8	475	755	1.75	
WFA 57WR37 WFAF 57WR37 WF 57WR37 WFF 57WR37	2.5	370	558	1.60	**4P**
	2.7	330	506	1.80	
	3.0	285	452	2.1	
	3.2	295	426	2.0	
	3.6	260	382	2.3	
	4.2	225	330	2.7	
	4.6	200	298	3.0	
	5.3	177	262	3.4	
WFA 47WR17 WFAF 47WR17 WF 47WR17 WFF 47WR17	2.2	425	622	0.95	**4P**
	2.5	370	543	1.10	
	2.9	320	475	1.25	
	3.3	280	419	1.45	
	2.6	365	524	1.10	
	2.8	340	489	1.20	
	3.2	290	427	1.35	
	3.6	260	381	1.55	
	4.1	225	334	1.75	
	4.7	198	295	2.0	
	5.4	166	253	2.4	
WFA 37WR17 WFAF 37WR17 WF 37WR17 WFF 37WR17	4.3	210	322	0.95	**4P**
	5.0	184	278	1.10	
	5.7	157	242	1.30	
	6.2	149	221	1.35	
	4.2	225	326	0.90	
	4.8	195	285	1.05	
	5.5	170	250	1.20	
	6.3	150	219	1.35	
	7.4	127	186	1.60	
	8.3	114	167	1.75	
WFA 67 WFAF 67 WF 67 WFF 67	3.9	290	228.99	2.8	**4P**
	4.6	250	195.39	3.3	
	5.3	220	170.85	3.8	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	5.6	205	162.31	4.0	
	6.3	181	142.40	4.5	
WFA 57 WFAF 57 WF 57 WFF 57	4.5	255	199.70	2.4	4P
	4.9	235	183.60	2.6	
	5.7	200	157.60	3.0	
	6.6	173	136.16	3.5	
	7.1	162	127.27	3.7	
	6.9	166	199.70	3.6	
	7.5	153	183.60	3.9	
	8.8	130	157.09	4.6	
	10	113	136.16	5.3	
WFA 47 WFAF 47 WF 47 WFF 47	4.7	245	190.76	1.65	6P
	5.1	225	175.38	1.80	
	6.0	191	150.06	2.1	
	6.9	166	130.07	2.4	
	7.4	155	121.57	2.6	
	8.6	134	105.09	3.0	
	10	114	89.29	3.5	
	11	102	79.72	3.9	
WFA 47 WFAF 47 WF 47 WFF 47	7.2	158	190.76	2.5	4P
	7.9	146	175.38	2.8	
	9.2	125	150.06	3.2	
	11	108	130.07	3.7	
0.12 KW					
WFA 37 WFAF37 WF 37 WFF 37	7.0	164	128.51	1.20	6P
	7.6	150	117.88	1.35	
	9.0	128	100.36	1.55	
	10	110	86.53	1.80	
	11	103	80.65	1.95	
WFA 37 WFAF 37 WF 37 WFF 37	11	107	128.51	1.85	4P
	12	98	117.88	2.0	
	14	83	100.36	2.4	
	16	72	86.53	2.8	
	17	67	80.65	3.0	
	20	59	70.50	3.4	
	21	55	66.09	3.6	
	24	48	58.32	4.1	
	25	45	54.54	4.4	
	27	43	51.70	4.7	
	29	39	47.02	5.1	
	31	36	43.83	5.5	
	36	32	38.31	6.3	
	38	30	35.91	6.7	
	44	26	31.69	7.6	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	49	23	28.09	8.6	
	58	20	23.88	10	
	58	20	23.63	10	
	67	17	20.57	12	
	72	16	19.27	13	
	81	14	17.03	14	
	87	13	15.81	15	
	96	12	14.33	17	
	107	11	12.87	19	
	125	9.2	11.08	21	
	132	8.7	10.42	21	
	154	7.4	8.97	24	
	186	6.2	7.44	23	
	205	5.6	6.74	25	
	228	5.0	6.05	27	
	265	4.3	5.21	29	
	282	4.1	4.90	29	
	327	3.5	4.22	31	
0.18 KW					
WFA 127WR77 WFAF 127WR77 WF 127WR77 WFF 127WR77	0.10	13500	12912	0.90	4P
	0.11	12100	11656	1.00	
	0.13	10700	10192	1.10	
	0.15	8980	8831	1.35	
	3.3	280	419	1.45	
	0.20	7150	6715	1.70	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107 WR77	0.15	8560	8548	0.90	4P
	0.17	8050	7674	0.95	
	0.20	7030	6767	1.10	
	0.22	6090	5954	1.25	
	0.25	5310	5223	1.45	
	0.26	4860	4567	1.60	
	0.37	3660	3521	2.1	
	0.43	2170	3037	2.4	
	0.48	2880	3756	2.7	
	0.56	2470	2369	3.1	
	0.64	2160	2068	3.6	
WFA 97WR57 WFAF 97WR57 WF 97WR57 WFF 97WR57	0.30	4660	4333	0.90	4P
	0.34	4260	3906	1.00	
	0.39	3670	3352	1.15	
	0.45	3100	2907	1.40	
	0.52	2790	2553	1.55	
	0.59	2450	2245	1.75	
	0.67	2130	1970	2.0	
	0.77	1890	1722	2.3	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	0.86	1670	1527	2.6	
	0.99	1380	1327	3.1	
	1.1	1280	1171	3.3	
0.18 KW					
WFA 87WR57 WFAF87WR57 WF 87WR57 WFF 87WR57	0.46	3160	2881	0.95	**4P**
	0.51	2820	2576	1.05	
	0.60	2400	2199	1.25	
	0.68	2080	1930	1.45	
	0.77	1860	1709	1.60	
	0.88	1640	1493	1.85	
	1.0	1350	1300	2.2	
	1.1	1210	1148	2.5	
	1.3	1050	1010	2.9	
	1.5	940	887	3.2	
	1.7	810	780	3.7	
WFA 77WR37 WFAF 77WR37 WF 77WR37 WFF 77WR37	0.76	1880	1728	0.80	**4P**
	0.86	1710	1544	0.90	
	0.98	1500	1354	1.00	
	1.1	1330	1200	1.15	
	1.2	1170	1053	1.30	
	1.5	1000	910	1.50	
	1.6	860	810	1.75	
	1.9	755	710	2.0	
	2.2	670	615	2.2	
WFA 67WR37 WFAF 67WR37 WF 67WR37 WFF 67WR37	1.5	910	858	0.90	**4P**
	1.8	800	755	1.00	
	2.1	685	641	1.20	
	2.3	625	572	1.30	
	2.6	540	509	1.50	
	3.0	470	437	1.75	
	3.4	420	384	1.95	
	2.6	560	500	1.45	
	2.9	510	454	1.60	
	3.4	440	392	1.85	
	4.0	370	333	2.2	
	4.4	325	297	2.5	
	5.1	285	261	2.9	
	5.6	260	238	3.2	
	6.6	215	200	3.8	
WFA 57WR37 WFAF 57WR37 WF 57WR37 WFF 57WR37	2.4	615	558	1.00	**4P**
	2.6	550	506	1.10	
	2.9	485	452	1.25	
	7.1	162	386	3.7	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	3.9	360	338	1.65	
	3.1	485	426	1.25	
	3.5	430	382	1.40	
	1.5	605	910	2.5	
	4.4	335	298	1.80	
	5.0	295	262	2.0	
	5.8	250	226	2.4	
	6.6	215	200	2.8	
WFA 47WR17 WFAF 47WR17 WF 47WR17 WFF 47WR17	3.6	400	370	1.00	**4P**
	4.1	365	324	1.10	
	4.6	315	288	1.25	
	5.3	270	249	1.50	
	4.0	375	334	1.05	
	4.5	330	295	1.20	
	5.2	280	253	1.45	
	6.1	245	217	1.60	
	7.0	215	190	1.85	
	7.4	200	178	2.0	
0.18 KW					
WFA 37WR17 WFAF 37WR17 WF 37WR17 WFF 37WR17	7.1	210	186	0.95	**4P**
	7.9	188	167	105	
	9.1	166	145	1.20	
	10	146	129	1.35	
WFA 77 WFAF 77 WF 77 WFF 77	3.1	555	281071	2.7	**6P**
	3.3	520	262.93	2.9	
	3.8	445	225.79	3.4	
WFA 67 WFAF 67 WF 67 WFF 67	3.8	450	228.99	2.8	**6P**
	4.4	385	195.39	3.2	
	5.1	340	170.85	3.7	
WFA 67 WFAF 67 WF 67 WFF 67	5.8	300	228.99	2.8	**4P**
	6.8	255	195.39	3.2	
	7.7	225	170.85	3.7	
WFA 57 WFAF 57 WF 57 WFF 57	4.4	395	199.70	1.50	**6P**
	4.7	365	183.60	1.65	
	5.5	310	157.09	1.95	
	6.4	270	136.16	2.2	
	6.8	250	127.27	2.4	
	7.9	215	110.01	2.8	
WFA 57 WFAF 57 WF 57 WFF 57	6.6	260	199.70	2.3	**4P**
	7.2	240	183.60	2.5	
	8.4	205	157.09	2.9	
	9.7	177	136.16	3.4	
	10	166	127.27	3.6	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 47 WFAF 47 WF 47 WFF 47	6.9	250	190.76	1.05	6P
	7.5	230	175.38	1.15	
	8.8	195	150.06	1.35	
	10	169	130.07	1.55	
	11	158	121.57	1.65	
WFA 47 WFAF 47 WF 47 WFF 47	4.6	375	190.79	1.60	4P
	5.0	345	175.35	1.75	
	5.8	295	150.06	2.0	
	6.7	255	130.07	2.4	
	7.2	240	121.57	2.5	
WFA 37 WFAF 37 WF 37 WFF 37	7.4	235	117.88	0.85	6P
	8.7	195	100.36	1.00	
	10	171	86.53	1.15	
	11	159	80.65	1.25	
	12	139	10.50	1.45	
WFA 37 WFAF 37 WF 37 WFF 37	10	167	128.51	1.20	4P
	11	154	117.88	1.30	
	13	131	100.36	1.55	
	15	113	86.53	1.75	
	16	105	80.65	1.90	
	19	92	70.50	2.2	
	20	86	66.09	2.3	
	23	76	58.32	2.6	
	24	71	54.54	2.8	
	26	67	51.70	3.0	
	28	61	47.02	3.3	
	30	57	43.83	3.5	
	34	50	38.31	4.0	
	37	47	35.91	4.3	
	42	41	31.69	4.8	
	47	37	28.09	5.5	
	55	31	23.88	6.4	
	56	31	23.88	6.5	
	64	27	20.57	7.5	
	69	25	19.27	8.0	
	78	22	17.03	9.0	
	83	21	15.81	9.7	
	92	19	14.33	11	
WFA 37 WFAF 37 WF 37 WFF 37	103	17	12.87	12	4P
	119	14	11.08	13	
	127	14	10.42	14	
	147	12	8.97	15	
	178	9.7	7.44	15	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	196	8.8	6.74	16	
	218	7.9	6.05	17	
	253	6.8	5.21	18	
	269	6.4	4.90	19	
	313	5.5	4.22	20	
0.25 KW					
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127WR77	0.15	13300	8831	0.90	4P
	0.17	11500	7643	1.05	
	0.19	10400	6715	1.30	
	0.22	9190	5925	1.55	
	0.25	7860	5153	1.55	
	0.29	6850	4533	1.75	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107WR77	0.22	9000	5954	0.85	4P
	0.25	7860	5223	1.00	
	0.28	7090	4567	1.10	
	0.37	5370	3521	1.45	
	0.43	4680	3037	1.65	
	0.47	4240	2756	1.80	
	0.55	3650	2369	2.1	
	0.63	3180	2068	2.4	
	0.81	2440	1597	3.2	
	0.93	2110	1401	3.6	
WFA 97WR57 WFAF 97WR57 WF 97WR57 WFF 97WR57	0.45	4530	2907	0.95	4P
	0.51	4050	2553	1.05	
	0.58	3560	2245	1.20	
	0.66	3100	1970	1.40	
	0.75	2740	1722	1.55	
	0.85	1430	1527	1.75	
	0.98	2040	1327	2.1	
	1.1	1860	1171	2.3	
	1.3	1630	1022	2.6	
WFA 87WR57 WFAF 87WR57 WF 87WR57 WFF 87WR57	0.67	3040	1930	1.00	4P
	0.76	2710	1709	1.10	
	0.87	2380	1493	1.25	
	1.0	1990	1300	1.50	
	1.1	1780	1148	1.70	
	1.3	1550	1010	1.95	
	1.5	1370	887	2.2	
	1.7	1200	780	2.5	
	1.9	1020	674	2.9	
WFA 77WR37 WFAF 77WR37	1.2	1690	1053	0.90	
	1.4	1450	910	1.05	
	1.6	1260	810	1.20	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WF 77WR37 WFF 77WR37	1.8	1110	710	1.35	
	2.1	970	615	1.55	
	2.4	850	538	1.75	
	2.7	760	480	2.0	
	3.2	645	413	2.3	
WFA 67WR37 WFAF 67WR37 WF 67WR37 WFF 67WR37	2.0	1000	641	0.80	4P
	2.3	910	572	0.90	
	2.6	795	509	1.05	
	3.0	685	437	1.20	
	2.6	810	500	1.00	
	2.9	740	454	1.10	
	3.3	635	392	1.30	
	3.9	535	333	1.55	
	4.4	475	297	1.70	
	5.0	420	261	1.95	
	5.5	375	238	2.2	
0.25 KW					
WFA 57WR37 WFAF 57WR37 WF 57WR37 WFF 57WR37	3.4	605	386	1.00	4P
	3.8	525	338	1.15	
	5.1	400	255	1.50	
	3.4	625	382	0.95	
	3.9	535	330	1.10	
	4.4	485	298	1.25	
	5.0	425	262	1.40	
	5.8	360	226	1.65	
	6.5	320	200	1.90	
	7.7	270	170	2.2	
WFA 47WR17 WFAF 47WR17 WF 47WR17 WFF 47WR17	5.2	395	249	1.00	4P
	6.0	350	218	1.15	
	6.7	305	193	1.30	
	7.4	280	175	1.45	
	5.1	405	253	1.00	
	6.0	355	217	1.10	
	6.8	310	190	1.30	
	7.3	290	178	1.40	
	8.7	240	149	1.65	
	9.9	210	131	1.90	
WFA 37 WFAF 37 WF 37 WFF 37	8.9	240	145	0.85	4P
	10	210	129	0.95	
	11	193	118	1.05	
	13	160	98	1.25	
	15	140	87	1.45	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 77 WFAF 77 WF 77 WFF 77	3.1	765	281.71	1.95	6P
	3.3	715	262.93	2.1	
	3.9	615	225.79	2.5	
	4.4	540	138.31	2.8	
	4.7	510	188.40	2.9	
WFA 67 WFAF 67 WF 67 WFF 67	3.8	620	228.99	1.30	6P
	4.5	530	195.39	1.55	
	5.2	465	170.85	1.75	
	5.4	440	162.31	1.85	
	6.2	385	142.40	2.1	
WFA 67 WFAF 67 WF 67 WFF 67	5.7	420	228.99	1.95	4P
	6.7	360	195.39	2.3	
	7.6	315	170.85	2.6	
	8.0	300	162.31	2.8	
	9.1	260	142.40	3.1	
WFA 57 WFAF 57 WF 57 WFF 57	4.4	540	199.70	1.10	6P
	4.8	500	183.60	1.20	
	5.6	425	157.09	1.40	
	6.5	370	136.16	1.60	
	6.9	345	127.27	1.75	
	8.0	300	110.01	2.0	
WFA 57 WFAF 57 WF 57 WFF 57	6.5	365	199.70	1.10	4P
	7.1	335	183.60	1.20	
	8.3	290	157.09	1.40	
	9.6	250	136.16	2.4	
	10	235	127.27	2.6	
	12	200	110.01	3.0	
WFA 47 WFAF 47 WF 47 WFF 47	5.9	405	150.06	1.00	6P
	6.8	355	130.07	1.15	
	7.2	330	121.57	1.20	
	8.4	285	105.09	1.40	
WFA 47 WFAF 47 WF 47 WFF 47	6.8	350	190.76	1.15	4P
	7.4	320	175.38	1.25	
	8.7	275	150.06	1.45	
	10	240	130.07	1.65	
	11	225	121.57	1.80	
	12	193	105.09	2.1	
	15	164	89.29	2.4	
WFA 37 WFAF 37 WF 37 WFF 37	10	235	128.51	0.85	4P
	11	215	117.88	0.90	
	13	184	100.36	1.10	
	15	159	86.53	1.25	
	16	148	80.65	1.35	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 37 WFAF 37 WF 37 WFF 37	18	130	70.50	1.55	4P
	20	121	66.09	1.65	
	22	107	58.32	1.85	
	24	100	54.54	2.0	
	25	95	51.70	2.1	
	28	86	47.02	2.3	
	30	81	43.83	2.5	
	34	70	38.31	2.8	
	36	66	35.91	3.0	
	41	58	28.09	3.4	
	46	52	23.09	3.9	
	54	44	23.88	4.6	
	55	43	23.63	4.6	
	63	38	20.57	5.3	
	67	35	19.27	5.7	
	76	31	17.03	6.4	
	82	29	15.81	6.9	
	91	26	14.33	7.6	
	101	24	12.87	8.5	
	117	20	11.08	9.3	
	125	19	10.42	9.7	
	145	17	8.97	11	
	175	14	7.44	11	
	193	12	6.74	11	
	215	11	6.05	12	
	249	9.6	5.21	13	
	265	9.0	4.90	13	
	308	7.7	4.22	14	
0.37 KW					
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127WR77	0.21	14900	6715	0.80	4P
	0.23	13100	5925	0.90	
	0.27	11300	5153	1.05	
	0.30	9850	4533	1.20	
	0.35	8590	3926	1.40	
	0.40	7510	3454	1.60	
	0.46	6570	3031	1.85	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107WR77	0.45	6720	3037	1.15	4P
	0.50	6090	2756	1.25	
	0.58	5240	2369	1.45	
	0.67	4570	2068	1.70	
	0.86	3510	1597	2.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 97WR57 WFAF 97WR57 WF 97WR57 WFF 97WR57	0.61	5070	2245	0.85	4P
	0.70	4430	1970	0.95	
	0.80	3900	1722	1.10	
	0.90	3460	1527	1.25	
	1.0	2930	1327	1.45	
	1.2	2650	1171	1.60	
	1.4	2310	1022	1.85	
	1.5	1960	898	2.2	
WFA 87WR57 WFAF 87WR57 WF 87WR57 WFF 87WR57	1.1	2870	1300	1.05	4P
	1.2	2550	1148	1.20	
	1.4	2230	1010	1.35	
	1.6	1970	887	1.50	
	1.8	1720	780	1.75	
	2.0	1470	674	2.0	
	2.2	1340	609	2.2	
	2.7	1130	515	2.7	
	3.0	1000	452	3.0	
WFA 77WR37 WFAF 77WR37 WF 77WR37 WFF 77WR37	1.7	1810	810	0.85	4P
	1.9	1590	710	0.95	
	2.2	1390	615	1.10	
	2.6	1210	538	1.25	
	2.9	1080	480	1.40	
	3.3	920	413	1.65	
	3.8	830	367	1.80	
	4.3	730	323	2.0	
WFA 67WR37 WFAF 67WR37 WF 67WR37 WFF 67WR37	3.2	980	437	0.85	4P
	3.6	870	384	0.95	
	4.1	770	338	1.05	
	6.8	355	130.07	1.15	
	5.4	575	257	1.40	
	6.0	510	231	1.60	
WFA 57WR37 WFAF 57WR37 WF 57WR37 WFF 57WR37	5.4	570	255	1.05	4P
	6.9	445	201	1.35	
	7.6	405	181	1.50	
	5.3	605	262	1.00	
	6.1	515	226	1.15	
	6.9	455	200	1.30	
	8.1	385	170	1.55	
	9.1	345	152	1.75	
	10	300	134	2.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 47WR17 WFAF 47WR17 WF 47WR17 WFF 47WR17	7.9	395	175	1.00	4P
	9.4	335	147	1.20	
	11	295	130	1.30	
WFA 87 WFAF 87 WF 87 WFF 87	2.5	1410	270.68	2.1	8P
	2.7	1330	255.37	2.3	
	3.0	1190	228.93	2.5	
	3.5	1020	197.20	2.9	
WFA 87 WFAF 87 WF 87 WFF 87	3.3	1060	270.68	2.8	6P
	3.5	1000	255.37	3.0	
	3.9	900	228.93	3.3	
WFA 77 WFAF 77 WF 77 WFF 77	4.0	890	22.79	1.70	6P
	4.5	780	198.31	1.95	
	4.8	740	188.40	2.0	
	5.4	655	166.47	2.3	
	6.3	560	142.27	2.7	
WFA 77 WFAF 77 WF 77 WFF 77	4.9	720	281.71	2.1	4P
	5.2	675	262.93	2.2	
	6.1	580	225.79	2.6	
	7.0	510	198.31	3.0	
WFA 67 WFAF 67 WF 67 WFF 67	4.6	765	195.39	1.05	6P
	5.3	670	170.85	1.20	
	5.6	635	162.31	1.30	
	6.3	560	142.40	1.45	
	7.4	475	120.79	1.75	
WFA 67 WFAF 67 WF 67 WFF 67	6.0	585	228.99	1.40	4P
	7.1	500	195.39	1.65	
	8.1	435	170.85	1.85	
	8.5	415	162.31	1.95	
	9.7	365	142.40	2.2	
	11	310	120.79	2.7	
WFA 57 WFAF 57 WF 57 WFF 57	5.7	615	157.09	0.95	6P
	6.6	535	136.16	1.10	
	7.1	500	127.27	1.20	
	8.2	430	110.01	1.40	
WFA 57 WFAF 57 WF 57 WFF 57	6.9	510	199.70	1.15	4P
	7.5	470	183.60	1.30	
	8.8	400	157.09	1.50	
	10	350	136.16	1.70	
	11	325	127.27	1.85	
	13	280	110.01	2.1	
	15	240	93.47	2.5	
	17	215	83.46	2.8	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 37 WFAF 37 WF 37 WFF 37	16	220	86.53	0.90	4P
	17	205	80.65	0.95	
	20	18	70.50	1.10	
	21	169	66.09	1.20	
	24	149	58.32	1.35	
	25	140	54.54	1.45	
	27	132	51.70	1.50	
	29	120	47.02	1.65	
	31	112	43.83	1.80	
	36	98	38.31	2.0	
	38	92	35.91	2.2	
	44	81	31.69	2.5	
	49	72	28.09	2.8	
	58	61	23.88	3.3	
	58	61	23.63	3.3	
	67	53	20.57	3.8	
	72	49	19.27	4.1	
	81	44	17.03	4.6	
	87	41	15.81	4.9	
	96	37	14.33	5.4	
	107	33	12.87	6.1	
	125	28	11.08	6.7	
	132	27	10.42	6.9	
	154	23	8.97	7.6	
	186	19	7.44	7.6	
	205	17	6.74	8.1	
	228	16	6.05	8.7	
	265	13	5.21	9.4	
	282	13	4.90	9.6	
	327	11	4.22	10	
0.55 KW					
WFA 157WR97 WFAF157WR97 WF 157WR97 WFF 157WR97	0.22	20500	3.5	1490	4P
	0.25	17400	3.9	1340	
	0.49	8930	4.6	1150	
	0.56	7760	5.0	1050	
	0.81	5520	1674	3.3	
	1.0	4220	1308	4.3	
	1.2	3730	1169	4.8	
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127WR77	0.35	13300	3926	0.90	4P
	0.39	11600	3454	1.05	
	0.45	10200	3031	1.20	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.55 KW					
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107WR77	0.57	8100	2369	0.95	**4P**
	0.66	7070	2068	1.10	
	0.74	3110	1826	1.25	
	0.85	5440	1597	1.40	
	0.97	4750	1401	1.60	
	1.1	4160	1243	1.85	
	1.2	3700	1087	2.1	
	1.4	3180	950	2.4	
	1.6	2770	834	2.8	
	2.1	2150	640	3.6	
WFA 97WR57 WFAF 97WR57 WF 97WR57 WFF 97WR57	1.0	4530	1327	0.95	**4P**
	1.2	4060	1171	1.05	
	1.3	3550	1022	1.20	
	1.5	3050	898	1.40	
	1.7	2690	784	1.60	
	2.0	2340	690	1.85	
	2.2	2060	605	2.1	
	2.6	1790	529	2.4	
	2.9	1580	467	2.7	
	3.4	1360	405	3.2	
	3.7	1220	363	3.5	
WFA 87WR57 WFAF 87WR57 WF 87WR57 WFF 87WR57	1.5	3040	887	1.00	**4P**
	1.7	2660	780	1.15	
	2.0	2290	674	1.30	
	2.2	2080	609	1.45	
	2.6	1750	545	1.70	
	3.0	1540	452	1.95	
	3.9	1160	345	2.6	
WFA 77WR37 WFAF 77WR37 WF 77WR37 WFF 77WR37	2.5	1860	538	0.80	**4P**
	2.8	1660	480	0.90	
	3.3	1420	413	1.05	
	3.7	1270	367	1.20	
	4.2	1120	323	1.35	
WFA 67WR37 WFAF 67WR37 WF 67WR37 WFF 67WR37	5.3	890	257	0.90	**4P**
	5.9	790	231	1.05	
	6.6	705	205	1.15	
	7.8	600	175	1.35	
WFA 97 WFAF 97 WF 97 WFF 97	2.5	2140	276.77	2.0	**8P**
	2.7	1960	253.41	2.2	
	3.0	1730	223.88	2.5	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 87 WFAF 87 WF 87 WFF 87	2.5	2090	270.68	1.45	**8P**
	2.7	1970	255.37	1.50	
	3.0	1770	228.93	1.70	
	3.5	1520	197.20	1.95	
WFA 87 WFAF 87 WF 87 WFF 87	3.3	1580	270.68	1.90	**6P**
	3.5	1490	255.37	2.0	
	3.9	1340	228.93	2.2	
	4.6	1150	197.20	2.6	
	5.0	1050	179.97	2.9	
WFA 77 WFAF 77 WF 77 WFF 77	4.0	1320	225.79	1.15	**6P**
	4.5	1160	198.31	1.30	
	4.8	1100	188.40	1.35	
	5.4	970	166.47	1.55	
	6.3	830	142.27	1.80	
	6.9	760	130.42	1.95	
WFA 77 WFAF 77 WF 77 WFF 77	6.0	870	225.79	1.70	**4P**
	6.9	765	198.31	1.95	
	7.2	730	188.40	2.1	
	8.2	645	166.47	2.3	
	9.6	550	142.27	2.7	
	10	505	130.42	3.0	
	12	440	114.45	3.4	
	13	420	108.46	3.6	
	14	365	94.93	4.1	
WFA 67 WFAF 67 WF 67 WFF 67	7.0	755	195.39	1.10	**4P**
	8.0	660	170.85	1.25	
	8.4	625	162.31	1.30	
	9.6	550	142.40	1.50	
	11	465	120.79	1.75	
	12	420	109.04	1.95	
	14	370	95.94	2.2	
	15	350	90.59	2.3	
	17	310	79.76	2.7	
WFA 57 WFAF 57 WF 57 WFF 57	8.7	605	157.09	1.00	**4P**
	10	525	136.16	1.15	
	11	490	127.27	1.20	
	12	425	110.27	1.40	
	15	360	93.47	1.65	
	16	320	83.46	1.85	
	19	280	72.98	2.1	
	20	265	68.22	2.3	
	23	230	58.97	2.6	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.55 KW					
WFA 37 WFAF 37 WF 37 WFF 37	13	405	105.09	1.00	**4P**
	15	345	89.29	1.15	
	17	310	79.72	1.30	
	20	265	68.09	1.50	
	21	250	65.36	1.60	
	24	220	56.49	1.85	
	28	185	48.00	2.2	
	32	166	42.86	2.4	
	23	225	58.32	0.90	
	25	210	54.54	0.95	
	26	200	51.70	1.00	
	29	182	47.02	1.10	
	31	169	43.83	1.20	
	36	148	38.31	1.35	
	38	139	35.91	1.45	
	43	122	31.69	1.65	
	48	109	28.09	1.85	
	57	92	23.68	2.2	
	58	9	23.63	2.2	
	66	79	20.57	2.5	
	71	74	19.27	2.7	
	80	66	17.03	3.0	
	95	55	14.33	3.6	
	106	50	12.87	4.0	
	123	43	11.08	4.4	
	130	40	10.42	4.6	
	152	35	8.97	5.1	
	170	31	8.01	5.5	
	183	29	7.44	5.1	
	202	26	6.74	5.4	
	225	23	6.05	5.8	
	261	20	5.21	6.2	
	277	19	4.90	6.3	
	322	16	4.22	6.8	
	361	15	3.77	7.2	
0.75 KW					
WFA 157WR97 WFAF157WR97 WF 157WR97 WFF 157WR97	0.50	12300	2780	1.45	**4P**
	0.57	10700	2427	1.70	
	0.82	7580	1674	2.4	
	1.1	5830	1308	3.1	
	1.2	5170	1169	3.5	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 127WR77 WFAF 27WR77 WF 127WR77 WFF 127WR77	0.46	13800	3031	0.85	**4P**
	0.52	12400	2672	0.95	
	0.59	10900	2357	1.10	
	0.68	9390	2038	1.30	
	0.77	8190	1784	1.45	
	0.86	7350	1606	1.65	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107WR77	0.76	8360	1826	0.90	**4P**
	0.86	7400	1597	1.05	
	0.98	6470	1401	1.20	
	1.1	5690	1234	1.35	
	1.3	5040	1087	1.50	
	1.5	4350	950	1.75	
	1.7	3800	834	2.0	
	2.2	2940	640	2.6	
	3.2	2000	436	3.8	
WFA 97WR57 WFAF 97WR57 WF 97WR57 WFF 97WR57	1.4	4810	1022	0.90	**4P**
	1.5	4150	898	1.05	
	1.8	3660	784	1.20	
	2.0	3190	690	1.35	
	2.3	2800	605	1.55	
	2.6	2440	529	1.75	
	3.0	21600	467	2.0	
	3.4	1860	406	2.3	
	3.8	1670	363	2.6	
WFA 87WR57 WFAF 87WR57 WF 87WR57 WFF 87WR57	2.0	3120	674	0.95	**4P**
	2.3	2830	609	1.05	
	2.7	2390	515	1.25	
	3.0	2100	452	1.45	
	4.0	1590	345	1.90	
WFA 77WR37 WFAF77WR37 WF 77WR37 WFF 77WR37	3.8	1720	367	367	**4P**
	4.3	1520	323	323	
	4.9	1310	280	280	
WFA 107 WFAF107 WF 107 WFF 107	2.7	2640	254.40	2.9	**4P**
WFA 97 WFAF97 WF 97 WFF 97	2.5	2870	276.77	1.50	**8P**
	2.7	2630	263.41	1.65	
	3.1	2320	223.88	1.85	
WFA 97 WFAF97 WF 97 WFF 97	3.2	2200	276.77	1.95	**6P**
	3.5	2020	253.41	2.1	
	4.0	1780	223.88	2.4	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
0.75 KW					
WFA 87 WFAF87 WF 87 WFF 87	33	2150	270.68	1.40	**6P**
	3.5	2030	255.37	1.50	
	3.9	1820	228.93	1.65	
	4.6	1570	197.20	1.90	
	5.0	1430	179.97	2.1	
	56	1270	159.61	2.5	
WFA 87 WFAF87 WF 87 WFF 87	5.1	1400	270.68	2.1	**4P**
	5.4	1330	255.37	2.3	
	6.0	1190	228.93	2.5	
WFA 77 WFAF77 WF 77 WFF 77	4.5	1580	198.31	0.95	**6P**
	4.8	1500	188.40	1.00	
	5.4	1320	166.47	1.15	
	6.3	1130	142.27	1.30	
	6.9	1040	130.42	1.45	
WFA 77 WFAF 77 WF 77 WFF 77	6.1	1170	225.79	1.30	**4P**
	7.0	1030	198.31	1.45	
	7.3	980	188.40	1.55	
	8.3	860	166.47	1.75	
	9.7	740	142.27	2.0	
	11	675	130.42	2.2	
	12	595	114.45	2.5	
	13	565	108.46	2.7	
WFA 67 WFAF 67 WF 67 WFF 67	8.1	890	170.85	0.90	**4P**
	8.5	840	162.31	0.95	
	9.7	740	142.40	1.10	
	11	625	120.79	1.30	
	13	565	109.04	1.45	
	14	500	95.94	1.65	
	15	470	90.59	1.75	
	17	415	79.76	2.0	
	20	350	67.65	2.3	
	23	315	61.07	2.6	
WFA 57 WFAF 57 WF 57 WFF 57	11	660	127.27	0.90	**4P**
	13	570	110.01	1.05	
	15	485	93.47	1.25	
	17	435	83.46	1.40	
	19	380	72.98	1.60	
	20	355	68.22	1.70	
	23	305	58.97	1.95	
	28	260	50.10	2.3	
	31	230	44.73	2.6	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 47 WFAF 47 WF 47 WFF 47	17	415	79.72	0.95	**4P**
	20	355	68.09	1.15	
	21	340	65.36	1.20	
	24	295	56.49	1.35	
	29	250	48.00	1.65	
	32	220	42.86	1.85	
	38	190	36.61	2.0	
	40	178	34.29	2.2	
	48	150	28.88	2.7	
WFA 37 WFAF 37 WF 37 WFF 37	29	145	47.02	0.80	**4P**
	31	230	43.83	0.90	
	36	199	38.31	1.00	
	38	186	35.91	1.05	
	44	165	31.69	1.20	
	49	146	28.09	1.35	
	58	124	23.88	1.60	
	58	123	23.63	1.65	
	67	107	20.57	1.85	
	72	100	19.27	2.0	
	81	88	17.03	2.3	
	96	74	14.33	2.7	
	107	67	12.87	3.0	
	125	58	11.08	3.3	
	132	54	10.42	3.4	
	154	47	8.97	3.8	
	205	35	6.74	4.0	
	228	31	6.05	4.3	
	265	27	5.21	4.6	
	282	25	4.90	4.7	
	327	22	4.22	5.0	
	366	20	3.77	5.4	
1.1 KW					
WFA 157WR97 WFAF157WR97 WF 157WR97 WFF 157WR97	0.50	18200	2780	1.00	**4P**
	0.58	16000	2427	1.15	
	0.64	14300	2185	1.25	
	0.72	12700	1944	1.40	
	0.84	11200	1674	1.60	
	1.1	8640	1308	2.1	
	1.2	7680	1169	2.3	
	1.5	6190	953	2.9	
	1.7	5450	845	3.3	
	3.1	2880	446	6.2	
	4.6	1950	302	9.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.1 KW					
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127 WR77	0.69	13800	2038	0.85	**4P**
	0.79	12000	1784	1.00	
	0.87	10800	1606	1.10	
	1.0	9350	1390	1.30	
	1.1	8170	1220	1.45	
	1.3	7260	1077	1.65	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107 WR77	1.1	8360	1243	0.90	**4P**
	1.3	7370	1087	1.05	
	1.5	6390	950	1.20	
	1.7	5590	823	1.35	
	1.9	4910	723	1.55	
	2.2	4310	640	1.80	
WFA 97WR57 WFAF97WR57 WF 97WR57 WFF 97WR57	2.0	4670	690	0.90	**4P**
	2.3	4100	605	1.05	
	2.7	3580	529	1.20	
	3.0	3160	467	1.35	
	3.5	2730	406	1.55	
	3.8	2450	363	1.75	
WFA 87WR57 WFAF87WR57 WF 87WR57 WFF 87WR57	3.1	3070	452	1.00	**8P**
	4.1	2330	345	1.30	
	4.7	2020	300	1.50	
	5.6	1670	249	1.80	
WFA 107 WFAF107 WF 107 WFF 107	2.7	3930	254.40	1.95	**8P**
	3.2	3330	215.37	2.3	
	3.4	3080	199.31	2.5	
	3.8	2760	178.64	2.8	
WFA 97 WFAF 97 WF 97 WFF 97	3.3	3160	276.77	1.35	**6P**
	3.6	2890	253.41	1.50	
	4.1	2560	223.88	1.70	
	4.8	2170	189.92	2.0	
	5.3	2000	174.87	2.2	
WFA 97 WFAF 97 WF 97 WFF 97	5.1	2080	276.77	2.1	**4P**
	5.5	1900	253.41	2.3	
	6.2	1680	223.88	26	
WFA 87 WFAF 87 WF 87 WFF 87	3.4	3090	270.68	0.95	**6P**
	3.6	2920	255.37	1.05	
	4.0	2610	228.93	1.15	
	4.7	2250	197.20	1.35	
	5.1	2050	179.97	1.45	
	5.8	1820	159.61	0.65	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 87 WFAF 87 WF 87 WFF 87	5.2	2030	270.68	1.50	**4P**
	5.5	1920	255.37	1.55	
	6.1	1720	228.93	1.75	
	7.1	1480	197.20	2.0	
	7.8	1350	179.97	2.2	
	8.8	1200	159.61	2.5	
	10	1010	134.16	3.0	
	11	930	123.29	3.2	
	7.1	1490	198.31	1.0	
	7.4	1410	188.40	1.05	
	8.4	1250	166.47	1.20	
	9.8	1070	142.27	1.40	
WFA 77 WFAF 77 WF 77 WFF 77	11	980	130.42	1.55	**4P**
	12	850	114.45	1.75	
	13	810	108.46	1.85	
	15	710	94.93	2.1	
	16	645	85.52	2.3	
	19	565	75.02	2.7	
WFA 67 WFAF 67 WF 67 WFF 67	12	910	120.79	0.90	**4P**
	13	820	109.04	1.00	
	15	720	95.94	1.15	
	15	680	90.59	1.20	
	18	600	79.76	1.35	
	21	510	67.65	1.60	
	23	460	61.07	1.80	
	26	105	53.73	2.0	
	28	380	50.74	2.2	
	32	325	43.20	2.5	
	36	395	39.23	2.7	
	41	255	34.01	2.9	
WFA 57 WFAF 57 WF 57 WFF 57	17	625	83.46	0.95	**4P**
	19	550	72.98	1.10	
	21	510	68.22	1.15	
	24	440	58.97	1.35	
	28	375	50.10	1.60	
	31	335	44.73	1.80	
	37	285	38.21	2.1	
	39	270	35.79	2.2	
	46	225	30.15	2.6	
WFA 47 WFAF 47 WF 47 WFF 47	25	425	56.49	0.95	**4P**
	29	360	48.00	1.10	
	33	320	42.86	1.25	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.1 KW					
	38	275	36.61	1.45	
	41	255	34.29	1.55	
	48	215	28.88	1.85	
	45	230	30.86	1.75	
	48	220	29.32	1.80	
	54	193	25.72	2.1	
	64	164	21.82	2.4	
	71	148	19.70	2.7	
WFA 37 WFAF37 WF 37 WFF 37	44	240	31.69	0.85	**4P**
	50	210	28.09	0.95	
	59	179	23.88	1.10	
	68	154	20.57	1.30	
	73	145	19.27	1.40	
	82	128	17.03	1.55	
	98	108	14.33	1.85	
	109	97	12.87	2.1	
	126	83	11.08	2.3	
	134	78	10.42	2.4	
	156	67	8.97	2.6	
	175	60	8.01	2.8	
	208	51	6.74	2.8	
	231	45	6.05	3.0	
	269	39	5.21	3.2	
	286	37	4.90	3.3	
	332	32	4.22	3.5	
	372	28	3.77	3.7	
1.5KW					
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	0.58	21900	2427	0.80	**4P**
	0.65	19700	2185	0.90	
	0.73	17500	1944	1.05	
	0.84	15300	1674	1.20	
	1.1	11900	1308	1.50	
	1.2	10600	1169	1.75	
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	1.5	8540	953	2.1	**4P**
	1.7	7530	845	2.4	
	3.2	3980	446	4.5	
	4.7	2690	302	6.7	
WFA 127WR77 WFAF 127WR77 WF 127WR77 WFF 127 WR77	0.88	14800	1606	0.80	**4P**
	1.0	12800	1390	0.95	
	1.2	11200	1220	1.05	
	1.3	9910	1077	1.20	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	1.5	8520	930	1.40	
	1.7	7500	820	1.60	
	1.9	6630	727	1.80	
	2.2	5960	648	2.0	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107 WR77	1.5	8730	950	0.90	**4P**
	1.7	7640	834	1.00	
	1.9	6730	736	1.15	
	2.2	5890	640	1.30	
	2.5	5110	560	1.50	
	2.9	4460	489	1.70	
	3.2	4010	436	1.90	
	3.8	3400	370	2.3	
WFA 97WR57 WFAF97WR57 WF 97WR57 WFF 97WR57	2.7	4880	529	0.90	**4P**
	3.0	4310	467	1.00	
	3.5	3730	406	1.15	
	3.9	3340	363	1.30	
WFA 87WR57 WFAF87WR57 WF 87WR57 WFF 87WR57	4.1	3180	345	0.95	**4P**
	4.7	2760	300	1.10	
	5.7	2290	249	1.30	
WWFA 107 WFAF107 WF 107 WFF 107	2.8	5210	254.40	1.50	**8P**
	3.2	4410	215.37	1.75	
	3.5	4080	199.31	1.90	
	3.9	3660	178.64	2.1	
WWFA 107 WFAF107 WF 107 WFF 107	3.6	3960	254.40	1.95	**6P**
	4.3	3350	215.37	2.3	
	4.6	3100	199.31	2.5	
	5.2	2780	178.64	2.8	
WFA 97 WFAF97 WF 97 WFF 97	3.3	4310	276.77	1.00	**6P**
	3.6	3950	253.41	1.10	
	4.1	3490	223.88	1.25	
	4.8	2960	189.92	1.45	
	5.3	2720	174.87	1.60	
WFA 97 WFAF97 WF 97 WFF 97	5.1	2810	276.77	1.15	**4P**
	5.6	2570	253.41	1.65	
	6.3	2270	223.88	1.90	
	7.4	1930	189.92	2.2	
	8.1	1780	174.87	2.4	
WFA 87 WFAF 87 WF 87 WFF 87	5.2	2750	270.68	1.10	**4P**
	2.5	2590	255.37	1.15	
	6.2	2330	228.93	1.30	
	7.2	2000	197.20	1.50	
	7.8	1830	179.20	1.65	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
1.5KW					
	8.8	1620	159.61	1.85	
	11	1360	134.16	2.2	
	13	1110	109.49	2.7	
	14	990	97.89	3.0	
WFA 77 WFAF77 WF 77 WFF 77	8.5	1690	166.47	0.90	**4P**
	9.9	1450	142.27	1.05	
	11	1320	130.42	1.15	
	12	1160	114.45	1.30	
WFA 77 WFAF 77 WF 77 WFF 77	13	1100	108.46	1.35	**4P**
	15	960	94.93	1.55	
	16	870	85.52	1.75	
	19	760	75.02	1.95	
	19	735	72.50	2.0	
	21	675	66.46	2.2	
	24	595	58.32	2.5	
	26	560	55.27	2.7	
	29	490	48.37	3.0	
	32	445	43.58	3.4	
	37	390	38.23	3.9	
	39	370	36.58	3.0	
	45	320	31.51	4.3	
WFA 67 WFAF67 WF 67 WFF 67	16	920	90.59	0.90	**4P**
	18	810	79.76	1.00	
	21	685	67.65	1.20	
	23	620	61.07	1.30	
	26	545	53.73	1.50	
	28	515	50.74	1.60	
	33	440	43.20	1.85	
	36	400	39.26	1.95	
	39	370	36.30	2.2	
	44	325	32.08	2.5	
	51	280	27.41	2.9	
	56	255	25.13	3.2	
WFA 57 WFAF57 WF 57 WFF 57	24	600	58.97	1.00	**4P**
	28	510	50.10	1.20	
	32	455	44.73	1.30	
	37	390	39.21	1.55	
	39	365	35.79	1.65	
	47	305	30.15	1.95	
	33	435	42.86	0.90	
	39	370	36.61	1.10	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 47 WFAF 47 WF 47 WFF 47	41	350	34.29	1.15	**4P**
	49	295	28.88	1.35	
	46	315	30.86	1.30	
	48	300	29.32	1.35	
	55	260	25.72	1.55	
	65	220	21.82	1.80	
	72	200	19.70	2.0	
	81	176	17.33	2.3	
	86	166	16.36	2.4	
	101	142	13.93	2.8	
WFA 37 WFAF37 WF 37 WFF 37	69	210	20.57	0.95	
	73	196	19.27	1.00	
	83	173	17.03	1.15	**4P**
	98	146	14.33	1.35	
	110	131	12.87	1.55	
	127	113	11.08	1.70	
	135	106	10.42	1.75	
	157	91	8.97	1.90	
	176	81	8.01	2.1	
	209	69	6.74	2.0	
	233	62	6.05	2.2	
	271	53	5.21	2.4	
	288	50	4.90	2.4	
	334	43	4.22	2.6	
	374	38	3.77	2.7	
2.2KW					
WFA 157WR97 WFAF157WR97 WF 157WR97 WFF 157 WR97	0.98	18900	1441	0.95	**6P**
	1.1	17600	1308	1.00	
	1.2	15700	1169	1.15	
	1.5	12700	953	1.40	
	1.7	11200	845	1.60	
	1.9	10100	764	1.80	
	2.1	9020	680	2.0	
	2.5	7610	576	2.4	
	3.2	5940	446	3.0	
	4.7	4020	302	4.5	
	5.2	3630	273	5.0	
	6.1	3060	232	5.9	
	7.2	2590	197	6.9	
	1.3	14600	107	0.80	
	1.5	12600	930	0.95	
	1.7	11100	820	1.10	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
2.2 KW					
WFA 127WR77 WFAF 127WR77 WF 127WR77 WFF 127 WR77	1.9	9530	727	1.20	**4P**
	2.2	8810	648	1.35	
	2.6	7460	549	1.65	
	2.8	670	495	1.85	
	3.3	5810	428	2.1	
WFA 107WR77 WFAF 107WR77 WF 107WR77 WFF 107WR77	2.2	8700	640	1.90	**4P**
	2.5	7580	560	1.00	
	2.9	6610	489	1.15	
	3.2	5930	436	1.30	
	3.8	5030	370	1.55	
	4.2	4520	333	1.70	
WFA 97WR57 WFAF97WR57 WF 97WR57 WFF 97WR57	3.9	4940	363	0.85	**4P**
	4.9	3890	285	1.10	
	5.8	3340	245	1.30	
WFA 107 WFAF107 WF 107 WFF 107	2.8	7640	254.40	1.00	**8P**
	3.2	6460	215.37	1.20	
	3.5	5950	199.31	1.30	
	3.9	5360	178.64	1.40	
WFA 107 WFAF107 WF 107 WFF 107	3.7	5690	254.40	1.35	**6P**
	4.4	4810	215.37	1.60	
	4.7	4450	199.31	1.70	
	5.3	3990	178.64	1.90	
WFA 107 WFAF107 WF 107 WFF 107	5.5	3790	254.40	2.0	**4P**
	6.6	3210	215.37	2.4	
	7.1	2970	199.31	2.6	
	7.9	2660	148.64	2.9	
WFA 97 WFAF97 WF 97 WFF 97	4.2	5000	223.88	0.85	**6P**
	5.9	4240	189.92	1.00	
	5.4	3910	174.87	1.10	
	6.0	3490	156.30	1.25	
WFA 97 WFAF97 WF 97 WFF 97	5.1	4120	276.77	1.05	**4P**
	5.6	3780	253.41	1.15	
	6.3	3340	223.88	1.30	
	7.4	2830	189.92	1.50	
	8.1	2610	174.87	1.65	
	9.0	2330	156.30	1.85	
	10	2100	140.71	2.0	
	11	1900	127.42	2.3	
WFA 87 WFAF87 WF 87 WFF 87	7.2	2940	197.20	1.00	**4P**
	7.8	2680	179.97	1.10	
	8.8	2380	159.61	1.25	
	11	2000	134.16	1.50	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
2.2 KW					
WFA 87 WFAF 87 WF 87 WFF 87	11	1840	123.29	1.65	**4P**
	13	1630	109.49	1.85	
	14	1460	97.89	2.1	
	16	1310	88.01	2.3	
	18	1140	76.39	2.6	
	21	1020	68.40	2.9	
	25	850	56.75	3.5	
	28	750	50.36	3.9	
	31	675	45.28	4.2	
WFA 77 WFAF 77 WF 77 WFF 77	12	1710	114.45	0.90	**4P**
	13	1620	108.46	0.95	
	15	1410	94.93	1.05	
	16	1270	85.52	1.20	
	19	1120	75.02	1.35	
	21	990	66.46	1.50	
	24	870	58.32	1.75	
	26	820	55.27	1.80	
	29	720	48.37	2.1	
	32	650	43.58	2.3	
	39	545	36.58	2.0	
	45	470	31.51	2.9	
	49	430	28.75	3.3	
	55	380	25.50	4.0	
WFA 157WR97 WFAF157WR97 WF 157WR97 WFF 157 WR97	23	910	61.07	0.90	**4P**
	26	800	53.73	1.00	
	28	755	50.74	1.10	
	33	645	43.20	1.25	
	36	585	39.26	1.35	
	41	505	34.01	1.45	
	44	480	32.08	1.70	
	51	410	27.41	2.0	
	56	375	25.13	2.2	
	64	330	22.05	2.5	
	67	310	20.90	2.6	
	77	275	18.29	3.0	
WFA 57 WFAF57 WF 57 WFF 57	32	665	44.73	0.90	
	37	570	38.21	1.05	
	39	535	35.79	1.15	
	47	450	30.15	1.30	
	56	370	24.69	1.55	
	67	315	21.17	1.90	
	74	285	19.11	2.1	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	84	250	16.81	2.4	
	89	235	15.88	2.5	
WFA 47 WFAF47 WF 47 WFF 47	55	385	25.72	1.05	4P
	65	328	21.82	1.25	
	72	295	19.70	1.35	
	81	260	17.33	1.55	
	86	245	16.36	1.65	
	101	210	13.93	1.95	
	111	189	12.66	2.1	
	129	163	10.97	2.5	
	157	133	8.96	2.5	
WFA 37 WFAF37 WF 37 WFF 37	98	245	14.33	0.95	4P
	110	192	12.87	1.05	
	127	165	11.08	1.15	
	135	155	10.42	1.20	
	157	134	8.97	1.30	
	176	119	8.01	1.40	
	209	100	6.74	1.40	
	233	90	6.05	1.50	
	271	78	5.21	1.60	
	288	73	4.90	1.65	
	334	63	4.22	1.75	
	374	56	3.77	1.85	
3.0 KW					
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157WR97	1.2	21700	1169	0.85	4P
	1.5	17600	953	1.00	
	1.7	15600	845	1.15	
	1.8	14100	764	1.30	
	2.1	12500	680	1.45	
	2.4	10600	576	1.70	
	3.1	8250	446	2.2	
	4.6	5580	302	3.2	
	5.1	5040	273	3.6	
	6.1	4250	232	4.2	
	7.1	3610	197	5.0	
WFA 127WR77 WFAF 127WR77 WF 127WR77 WFF 127WR77	1.9	13600	727	0.90	4P
	2.2	12200	648	1.00	
	2.5	10300	549	1.15	
	2.8	9270	495	1.30	
WFA 107WR77 WFAF 107WR77 WF 107WR77 WFF 107WR77	3.2	8170	436	0.95	4P
	3.8	6930	370	1.10	
	4.2	6240	333	1.25	
	4.8	5460	291	1.40	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
3.0 KW					
WFA 107 WFAF 107 WF 107 WFF 107	3.7	7750	254.40	1.00	6P
	4.4	6560	215.37	1.15	
	4.7	6070	199.31	1.25	
	5.3	5440	178.64	1.40	
WFA 107 WFAF 107 WF 107 WFF 107	5.5	5210	254.40	1.50	4P
	6.5	4410	215.37	1.75	
	7.0	4080	199.31	1.90	
	7.8	3660	178.64	2.1	
	8.7	3300	161.28	2.3	
WFA 97 WFAF 97 WF 97 WFF 97	6.2	4580	233.88	0.95	4P
	7.4	3890	189.92	1.10	
	8.0	3580	174.87	1.20	
	9.0	3200	156.30	1.35	
	9.9	2880	140.71	1.50	
	11	2610	127.42	1.65	
	12	2310	112.99	1.85	
	14	2090	102.16	2.1	
	16	1840	89.85	2.3	
WFA 87 WFAF 87 WF 87 WFF 87	10	2750	134.16	1.10	4P
	11	2520	123.29	1.20	
	13	2240	109.49	1.35	
	14	2000	97.89	1.50	
	16	1800	88.01	1.65	
	18	1560	76.39	1.90	
	20	1400	68.40	2.1	
	25	1160	56.75	2.6	
	28	1030	50.36	2.8	
WFA 77 WFAF 77 WF 77 WFF 77	16	1750	85.52	0.85	4P
	19	1540	75.02	1.00	
	21	1360	66.46	1.10	
	24	1190	58.32	1.25	
	25	1130	55.27	1.35	
	29	990	48.37	1.50	
	32	890	43.58	1.70	
	37	780	38.23	1.90	
	38	750	36.58	1.50	
	44	645	31.51	2.1	
	49	590	28.75	2.4	
	55	520	25.50	2.9	
	65	440	21.43	3.4	
	32	880	43.20	0.95	
	36	800	39.26	0.95	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
WFA 67 WFAF 67 WF 67 WFF 67	41	695	34.01	1.05	4P
	44	655	32.08	1.25	
	51	560	27.41	1.45	
	56	515	25.13	1.60	
	63	450	22.05	1.80	
	67	430	20.90	1.90	
	77	375	18.29	2.2	
	85	335	16.48	2.4	
	97	295	14.46	2.8	
WFA 57 WFAF 57 WF 57 WFF 57	56	510	24.96	1.15	4P
	66	435	21.17	1.40	
	73	390	19.11	1.55	
	83	345	16.81	1.75	
	88	325	15.88	1.75	
	104	275	13.52	2.2	
	114	250	12.29	2.4	
	132	220	10.64	2.8	
WFA 47 WFAF 47 WF 47 WFF 47	71	405	19.70	1.00	4P
	81	355	17.33	1.15	
	86	335	16.36	1.20	
	100	285	13.93	1.40	
	111	260	12.66	1.55	
	128	225	10.97	1.80	
	156	183	8.96	1.80	
WFA 37 WFAF 37 WF 37 WFF 37	126	225	11.08	0.85	4P
	134	215	10.42	0.85	
	156	184	8.97	0.95	
	175	164	8.01	1.05	
	208	138	6.74	1.00	
	231	124	6.05	1.10	
	269	107	5.21	1.15	
	286	100	4.90	1.20	
	332	86	4.22	1.25	
	372	77	3.77	1.35	
4.0 KW					
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	1.7	20600	845	0.85	4P
	1.9	18600	764	0.95	
	2.1	16600	680	1.10	
	2.5	14000	576	1.30	
	3.2	10900	446	1.65	
	4.7	7390	302	2.4	
	5.2	6670	273	2.7	
	6.1	5640	232	3.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	7.2	4780	197	3.8	
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127 WR77	2.6	13600	549	0.90	4P
	2.9	12200	495	1.00	
	3.3	10600	428	1.15	
	3.8	9270	376	1.30	
WFA 107WR77 WFAF107WR77 WF 107WR77 WFF 107 WR77	4.3	8230	333	1.95	4P
	4.9	7190	291	1.05	
	5.6	6310	255	1.20	
WFA 127 WFAF 127 WF 127 WFF 127	4.2	9060	170.83	1.30	4P
	4.7	8150	153.67	1.45	
	5.7	6650	125.37	1.80	
WFA 107 WFAF107 WF 107 WFF 107	5.6	6840	254.40	1.10	4P
	6.6	5790	215.37	1.35	
	7.1	5360	199.31	1.45	
	7.9	4810	178.64	1.60	
	8.8	4340	161.28	1.75	
	9.7	3940	146.49	1.95	
	11	3500	129.97	2.2	
	12	3170	117.94	2.4	
	14	2730	101.38	2.8	
WFA 97 WFAF97 WF 97 WFF 97	8.1	4700	174.87	0.90	4P
	9.1	4200	156.30	1.00	
	10	3780	140.71	1.15	
	11	3430	127.42	1.25	
	13	3040	112.99	1.40	
	14	2750	102.16	1.55	
	15	2620	97.58	1.65	
	16	2420	89.85	1.80	
	18	2160	80.31	2.0	
	20	1940	72.30	2.2	
	22	1760	65.47	2.4	
WFA 87 WFAF87 WF 87 WFF 87	13	2950	109.49	1.00	4P
	15	2630	94.89	1.15	
	16	2370	88.01	1.25	
	19	2050	76.39	1.45	
	21	1840	68.40	1.65	
	25	1530	56.75	1.95	
	28	1350	50.36	2.2	
	31	1220	45.28	2.3	
WFA 77 WFA F77 WF 77 WFF 77	21	1790	66.46	0.85	4P
	24	1570	58.32	0.95	
	26	1490	55.27	1.00	
	29	1300	48.37	1.15	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
4.0 KW					
	33	1170	43.58	1.30	
	37	1030	38.23	1.45	
	42	910	33.74	1.65	
	47	800	29.91	1.85	
	56	685	25.54	2.1	
	45	850	31.51	1.65	
	49	775	28.75	1.85	
	56	685	25.50	2.2	
	66	575	21.43	2.6	
	72	530	19.70	2.8	
WFA 67 WFAF67 WF 67 WFF 67	52	735	27.41	1.10	**4P**
	57	675	25.13	1.20	
	64	595	22.05	1.40	
	68	560	20.90	1.45	
	78	490	18.29	1.64	
	86	445	16.48	1.85	
	98	390	14.46	2.1	
	111	345	12.76	2.4	
	126	305	11.31	2.7	
	147	260	9.66	3.2	
	156	245	9.08	2.2	
	165	230	8.60	2.5	
	189	205	7.53	3.0	
	209	183	6.78	3.4	
	239	160	5.95	3.8	
	270	141	5.25	4.2	
	305	125	4.66	4.5	
	357	107	3.97	4.7	
WFA 57 WFAF57 WF 57 WFF 57	6.7	570	21.17	1.05	**4P**
	74	515	19.11	1.15	
	84	450	16.81	1.35	
	89	425	15.88	1.40	
	105	365	13.52	1.65	
	116	330	12.29	1.80	
	133	285	10.64	2.1	
	153	250	9.31	1.70	
	173	220	8.19	1.90	
	184	210	7.73	2.0	
	216	177	6.58	2.4	
	237	161	5.98	2.6	
	274	139	5.18	3.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
5.5 KW					
WFA 157WR97 WFAF157WR97 WF 157WR97 WFF 157 WR97	2.5	19300	576	0.95	**4P**
	2.8	16800	503	1.05	
	3.2	15000	446	1.20	
	4.1	11800	353	1.55	
	4.7	10100	302	1.80	
	5.2	9160	273	2.3	
	6.2	7750	232	2.7	
	7.1	6750	202	2.7	
	7.3	6570	197	2.7	
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127 WR77	3.4	14000	125.37	1.80	**4P**
	3.8	12600	254.40	1.10	
	4.6	10500	215.37	1.35	
	4.9	9840	199.31	1.45	
	5.5	8680	178.64	1.60	
	6.4	7500	161.28	1.75	
WFA 127WR77 WFAF127WR77 WF 127WR77 WFF 127 WR77	3.3	14500	428	0.85	**4P**
	3.8	12700	376	0.95	
WFA 157 WFAF157 WF 157 WFF 157	2.7	19800	267.43	0.90	**8P**
	3.3	16100	217.62	1.10	
	4.0	13200	178.20	1.35	
	4.4	12100	162.96	1.50	
	5.0	10500	141.80	1.70	
	5.7	9260	125.14	1.95	
	6.5	8030	108.49	2.2	
	7.4	7140	96.53	2.5	
	8.4	6350	85.80	2.8	
	9.1	5800	78.46	3.1	
	10	5050	68.28	3.6	
WFA 127 WFAF 127 WF 127 WFF 127	4.2	12600	170.38	0.95	**8P**
	4.6	11400	153.27	1.05	
	5.7	9270	125.04	1.30	
	6.2	8460	114.04	1.40	
WFA 107 WFAF 107 WF 107 WFF 107	6.6	7910	215.37	0.95	**4P**
	7.2	7320	199.31	1.05	
	8.0	6560	178.64	1.15	
	8.9	5920	161.28	1.30	
	9.8	5380	146.49	1.45	
	11	4770	129.97	1.60	
	12	4330	117.94	1.75	
	14	3720	101.38	2.1	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
5.5 KW					
	15	3400	92.47	2.3	
	16	3250	88.49	2.4	
	17	3080	83.99	2.5	
WFA 97 WFAF97 WF 97 WFF 97	11	4680	127.42	0.90	**4P**
	13	4150	112.99	1.05	
	14	3750	102.16	1.15	
	15	3580	97.58	1.20	
	16	3300	89.85	1.30	
	17	3180	86.59	1.35	
	18	2950	80.31	1.45	
	19	2780	75.63	1.55	
	20	2660	72.30	1.60	
	22	2400	65.47	1.80	
	25	2130	58.06	2.0	
	27	1930	52.49	2.2	
WFA 87 WFAF87 WF 87 WFF 87	16	3230	88.01	0.95	**4P**
	19	2810	76.39	1.05	
	21	2510	68.40	1.20	
	25	2080	56.75	1.45	
	28	1850	50.36	1.60	
	32	1660	45.28	1.70	
	36	1440	39.30	1.90	
	41	1290	35.19	2.0	
	49	1070	29.20	2.3	
	42	1250	33.92	2.1	
	50	1060	28.78	2.3	
	54	970	26.50	3.1	
	60	870	23.68	3.5	
WFA 77 WFAF 77 WF 77 WFF 77	30	1780	48.37	0.85	**4P**
	33	1600	43.58	0.95	
	37	1400	38.23	1.05	
	42	1240	33.74	1.20	
	48	1100	29.91	1.35	
	56	940	25.54	1.55	
	56	940	25.50	1.60	
	67	785	21.43	1.90	
	73	725	19.70	2.1	
	82	645	17.49	2.3	
	91	575	15.64	12.6	
	102	515	14.06	2.9	
	117	450	12.21	3.3	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
5.5 KW					
WFA 67 WFAF67 WF 67 WFF 67	65	810	22.05	1.00	**4P**
	68	770	20.90	1.05	
	78	670	18.29	1.20	
	87	605	16.48	1.35	
	99	530	14.46	1.55	
	112	470	12.76	1.75	
	126	415	11.31	1.95	
	148	355	9.66	2.3	
	158	335	9.08	1.60	
	166	315	8.60	1.80	
	190	275	7.53	2.2	
	211	250	6.78	2.5	
	240	220	5.95	2.8	
	272	193	5.25	3.1	
	307	171	4.66	3.3	
	360	146	3.97	3.4	
WF 57 WFAF 57 WF 57 WFF 57	85	620	16.81	0.95	**4P**
	90	58	15.88	1.05	
	106	495	13.52	1.20	
	116	450	12.29	1.35	
	134	390	10.64	1.55	
	175	300	8.19	1.40	
	185	285	7.73	1.50	
	217	240	6.58	1.75	
	239	220	5.98	1.90	
	276	190	5.18	2.2	
7.5KW					
WFA 127WR87 WFAF 127WR87 WF 127WR87 WFF 127 WR87	4.6	14300	312	0.85	**4P**
	4.9	13500	293	0.90	
	5.5	11900	259	1.00	
	6.4	10300	223	1.15	
	7.2	9080	198	1.30	
WFA 157 WFAF157 WF 157 WFF 157	3.3	21600	217.62	0.85	**8P**
	4.0	17700	178.20	1.00	
	4.4	16200	162.96	1.10	
	5.1	14100	141.80	1.30	
	5.8	12400	125.14	1.45	
	6.6	10800	108.49	1.65	
	7.5	9600	96.53	1.65	
	8.4	8530	85.80	2.1	
	9.2	7810	78.46	2.3	
	11	6790	68.28	2.7	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
7.5 KW					
	12	5990	60.25	3.0	
	14	5200	52.24	3.5	
	15	4620	46.48	3.9	
	18	3980	40.06	4.5	
WFA 157 WFAF157 WF 157 WFF 157	3.6	20000	267.43	0.90	**6P**
	4.4	16200	217.62	1.10	
	5.4	13300	178.20	1.35	
	5.9	12200	162.96	1.50	
	6.8	10600	141.80	1.70	
	7.7	9340	125.14	1.95	
	8.9	8090	108.49	2.2	
	9.9	7200	96.53	2.5	
	11	6400	85.80	2.8	
	12	5850	78.46	3.1	
	14	5090	68.28	3.5	
	16	4500	60.25	4.0	
	18	3900	52.24	4.6	
WFA 127 WFAF127 WF 127 WFF 127	5.7	12500	125.04	0.95	**8P**
	6.3	11400	114.04	1.05	
	7.3	9840	98.69	1.20	
	8.2	8690	87.08	1.40	
WFA 127 WFAF127 WF 127 WFF 127	5.6	12700	170.38	0.95	**6P**
	6.3	11500	153.27	1.05	
	7.7	9350	125.04	1.20	
	8.4	8530	114.04	1.40	
WFA 127 WFAF127 WF 127 WFF 127	8.4	8560	170.38	1.40	**4P**
	9.3	7700	153.27	1.55	
	11	6280	125.04	1.90	
WFA 107 WFAF107 WF 107 WFF 107	8.0	8950	178.64	0.80	**4P**
	8.9	8080	161.28	0.95	
	9.8	7340	146.49	1.05	
	11	6410	129.97	1.20	
	12	5910	117.94	1.30	
	14	5080	101.38	1.50	
	15	4630	92.47	1.65	
	16	4430	88.49	1.75	
	17	4210	63.99	1.85	
	19	3730	74.52	2.1	
	21	3390	67.62	2.3	
WFA 97 WFAF97 WF 97 WFF 97	15	4890	97.58	0.90	**4P**
	16	4500	89.85	1.00	
	17	4340	80.31	1.05	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
7.5 KW					
	19	3790	75.63	1.15	
	20	3620	72.30	1.20	
	22	3280	65.47	1.30	
WFA 87 WFAF87 WF 87 WFF 87	25	2840	56.75	1.05	**4P**
	28	2520	50.36	1.15	
	32	2270	45.28	1.25	
	36	1970	39.30	1.40	
	41	1760	35.19	1.50	
	49	1460	29.20	1.70	
	50	1440	28.78	1.70	
	54	1330	26.50	2.3	
	60	1190	23.68	2.5	
	67	1070	21.32	2.8	
	74	970	19.31	3.1	
	84	860	17.12	3.5	
	92	775	15.48	3.9	
WFA 77 WFAF 77 WF 77 WFF 77	42	1690	33.74	0.90	**4P**
	48	1500	29.91	1.00	
	56	1280	25.54	1.15	
	56	1280	25.50	1.15	
	67	1070	21.43	1.40	
	73	990	19.70	1.50	
	82	880	17.49	1.70	
	91	785	15.64	1.90	
	102	705	14.06	2.1	
	117	610	12.21	2.5	
	131	545	10.93	2.7	
	154	465	9.30	2.3	
	173	415	8.26	2.6	
	194	370	7.38	2.9	
	215	335	6.64	3.2	
	248	290	5.76	3.7	
	277	260	5.16	4.2	
	344	215	4.28	4.7	
11.0KW					
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	4.8	20300	302	0.90	**4P**
	5.3	18300	273	1.00	
	6.2	15500	232	1.15	
	7.1	13500	202	1.35	
	7.3	13200	197	1.35	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
11.0 KW					
WFA 127WR87 WFAF 127WR87 WF 127WR87 WFF 127WR87	6.4	15000	223	0.80	**4P**
	7.3	13300	198	0.90	
	8.7	11100	166	1.10	
WFA 157 WFAF157 WF 157 WFF 157	5.1	20700	141.80	0.85	**8P**
	5.8	18300	125.14	1.00	
	6.6	15800	108.49	1.15	
	7.5	1410	96.53	1.30	
WFA 157 WFAF157 WF 157 WFF 157	5.4	19500	178.20	0.90	**6P**
	5.9	17800	162.96	1.00	
	6.8	15500	141.80	1.15	
	7.7	13700	125.14	1.30	
	8.9	11900	108.49	1.50	
	9.9	10600	96.53	1.70	
	11	9390	85.80	1.90	
	12	8590	78.46	2.0	
WFA 157 WFAF157 WF 157 WFF 157	5.4	19500	267.43	4.0	**4P**
	6.6	15900	217.62	4.6	
	8.1	13000	178.20	0.95	
	8.8	11900	162.96	1.05	
	10	10300	141.80	1.20	
	12	9130	125.14	1.40	
	13	7910	108.49	0.95	
	15	7040	96.53	1.05	
	17	6260	85.80	1.20	
	18	5720	78.46	1.40	
	21	4980	68.28	1.40	
WFA 127 WFAF 127 WF 127 WFF 127	7.7	13700	125.04	0.85	**6P**
	8.4	12500	114.04	0.95	
	9.7	10800	98.69	1.10	
	11	9550	87.08	1.25	
	13	8250	75.21	1.45	
WFA 127 WFAF 127 WF 127 WFF 127	8.4	12500	170.38	0.95	**4P**
	9.4	11200	153.27	1.05	
	11	9150	125.04	1.30	
	13	8340	114.04	1.45	
	15	7220	98.69	1.65	
	16	6370	87.08	1.90	
	19	5500	75.21	2.2	
WFA 107 WFAF 107 WF 107 WFF 107	12	8600	117.94	0.90	**4P**
	14	7400	27.57	1.05	
	16	6750	25.14	1.15	
	17	6130	83.99	1.25	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
11.0 KW					
	19	5440	74.52	1.40	
	21	4930	67.62	1.55	
	25	4240	58.12	1.80	
	28	3700	50.73	2.1	
	33	3140	43.03	2.5	
	43	2470	33.79	3.0	
	52	2010	27.57	3.9	
	57	1830	25.14	4.3	
WFA 97 WFAF 97 WF 97 WFF 97	22	4780	65.47	0.90	**4P**
	25	4240	58.06	1.00	
	27	3830	52.49	1.10	
	32	3250	44.49	1.30	
	37	2830	38.86	1.50	
	44	2370	32.50	1.80	
	42	2470	33.91	1.75	
	47	2220	30.39	1.95	
	52	2000	27.44	2.2	
	58	1820	24.92	2.4	
	65	1610	22.11	2.7	
WFA 87 WFAF87 WF 87 WFF 87	37	2870	39.30	0.95	**4P**
	41	2570	35.19	1.00	
	49	2130	29.20	1.20	
	54	1930	26.50	1.55	
	61	1730	23.68	1.75	
	68	1560	21.32	1.95	
	75	1410	19.31	2.1	
	84	1250	17.12	2.4	
	93	1130	15.48	2.7	
	110	960	13.12	3.1	
WFA 77 WFAF77 WF 77 WFF 77	73	1440	19.70	1.05	**4P**
	82	1280	17.49	1.20	
	92	1140	15.64	1.30	
	102	1030	14.06	1.45	
	118	890	12.21	1.70	
	132	795	10.93	1.90	
	155	680	9.30	1.60	
11.0 KW					
WFA 77 WFAF77 WF 77 WFF 77	174	605	8.26	1.80	**4P**
	195	540	7.38	2.0	
	217	485	6.64	2.2	
	250	420	5.76	2.6	
	279	375	5.16	2.9	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
	336	310	4.28	3.2	
15.0 KW					
WFA157WR97 WFAF157WR97 WF157WR97 WFF157 WR97	6.3	20900	232	0.85	**4P**
	7.2	18300	202	1.00	
	7.4	17700	197	1.00	
WFA 157 WFAF157 WF 157 WFF 157	6.8	20900	141.80	0.85	**6P**
	7.8	18500	125.14	0.95	
	8.9	16000	108.49	1.10	
	10	14300	86.53	1.25	
	11	12700	85.80	1.40	
WFA 157 WFAF157 WF 157 WFF 157	6.7	21400	217.62	0.85	**4P**
	8.2	17500	178.20	1.05	
	9.0	16000	162.96	1.15	
	10	13900	141.80	1.30	
	12	12300	125.14	1.45	
	13	10600	108.49	1.70	
	15	9470	96.53	1.90	
	17	8420	85.80	2.1	
	19	7700	78.46	2.3	
	21	6700	68.28	2.7	
	24	5910	60.25	3.0	
WFA 127 WFAF127 WF 127 WFF 127	9.8	14600	98.69	0.80	**6P**
	11	12900	87.08	0.95	
	13	11100	75.21	1.10	
	14	10300	69.89	1.15	
	15	9440	63.74	1.25	
WFA 127 WFAF127 WF 127 WFF 127	12	12300	125.04	1.00	**4P**
	13	11200	114.04	1.05	
	15	9710	98.69	1.25	
	17	8570	87.08	1.40	
	19	7400	75.21	1.60	
	21	6870	69.89	1.75	
WFA 107 WFAF 107 WF 107 WFF 107	16	9070	92.47	0.85	**4P**
	17	8680	88.49	0.90	
	17	8240	83.99	0.95	
	20	7310	74.52	1.05	
	22	6630	67.62	1.15	
	25	5700	58.12	1.35	
	29	4980	50.73	1.55	
	34	4220	43.03	1.80	
	39	3690	37.61	2.1	
	46	3120	31.80	2.5	
	43	3320	33.79	2.2	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
15 KW					
	53	2700	27.57	2.9	
	58	2470	25.14	3.2	
	67	2130	21.76	3.7	
WFA 97 WFAF 97 WF 97 WFF 97	33	4360	44.49	1.00	**4P**
	38	3810	9810	1.15	
	45	3190	3330	1.35	
	43	3330	2980	1.30	
	48	2980	2690	1.45	
	53	2690	2690	1.60	
WFA 97 WFAF 97 WF 97 WFF 97	59	2450	24.92	1.75	**4P**
	66	2170	22.11	2.0	
	73	1970	20.07	2.2	
	85	1690	17.25	2.5	
	97	1480	15.06	2.9	
	114	1250	12.77	3.4	
	131	1100	11.16	3.7	
WFA 87 WFAF 87 WF 87 WFF 87	55	2600	26.50	1.15	**4P**
	62	2320	23.68	1.30	
	68	2090	21.32	1.45	
	76	1890	19.31	1.60	
	85	1680	17.12	1.80	
	94	1520	15.48	2.0	
	111	1290	13.12	2.3	
	127	1120	11.46	2.7	
	152	940	9.58	3.1	
	176	810	8.30	1.90	
	199	720	7.35	2.1	
	220	650	6.65	2.3	
	259	555	5.63	2.8	
	297	485	4.92	3.2	
	355	405	4.12	3.6	
18.5 KW					
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	7.2	22500	202	0.80	**4P**
	7.5	21800	197	0.80	
WFA 157 WFAF 157 WF 157 WFF 157	8.2	21500	178.20	0.85	**4P**
	9.0	19700	162.96	0.90	
	10	17100	141.80	1.05	
	12	15100	125.14	1.20	
	14	13100	108.49	1.40	
	15	11600	96.53	1.55	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
18.5 KW					
	17	10300	85.80	1.75	
	19	9760	78.46	1.90	
	21	8230	68.28	2.2	
	24	7270	60.25	2.5	
	28	6300	52.24	2.9	
WFA 127 WFAF 127 WF 127 WFF 127	13	13800	114.04	0.85	**4P**
	15	11900	98.69	1.00	
	17	10500	87.08	1.15	
	19	9090	75.21	1.30	
	21	8450	69.89	1.40	
	23	7710	63.74	1.55	
	26	6670	55.16	1.80	
	30	5880	48.67	2.0	
WFA 107 WFAF 107 WF 107 WFF 107	20	8990	74.52	0.85	**4P**
	22	8150	67.62	0.95	
	25	7010	58.12	1.10	
	29	6120	50.73	1.25	
	34	5190	43.03	1.50	
	39	4540	37.61	1.70	
	46	3830	31.80	2.0	
	43	4070	33.79	1.80	
	53	3320	27.57	2.4	
	58	3030	25.14	2.6	
	67	2620	21.76	3.0	
WFA 97 WFAF 97 WF 97 WFF 97	38	4690	38.86	0.90	**4P**
	45	3920	32.50	1.10	
	53	3310	27.44	1.30	
	59	3010	24.92	1.45	
	66	2670	22.11	1.60	
WFA 97 WFAF 97 WF 97 WFF 97	73	2420	20.07	1.80	**4P**
	85	2080	17.25	2.1	
	97	1820	15.06	2.4	
	115	1540	12.77	2.8	
	131	1350	11.16	3.0	
WFA 87 WFAF 87 WF 87 WFF 87	69	2570	21.32	1.15	**4P**
	76	2330	19.31	1.30	
	86	2060	17.12	1.45	
	95	1870	15.48	1.60	
	112	1580	13.12	1.90	
	128	1380	11.46	2.2	
	153	1160	9.58	2.5	
	177	1000	8.30	1.55	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
18.5 KW					
	199	890	7.35	1.75	
	220	800	6.65	1.90	
	260	680	5.63	2.2	
	298	595	4.92	2.6	
	356	495	4.12	2.9	
22 KW					
WFA 157 WFAF 157 WF 157 WFF 157	10	20900	96.53	0.90	**6P**
	11	18600	85.80	0.95	
	12	17000	78.46	1.05	
	14	14800	68.28	1.20	
WFA 157 WFAF 157 WF 157 WFF 157	10	20300	141.80	0.90	**4P**
	12	17900	125.14	1.00	
	14	15600	108.49	1.15	
	15	13800	96.53	1.30	
	17	12300	85.80	1.45	
	19	11300	78.46	1.60	
	21	9790	68.28	1.85	
	24	8640	60.25	2.1	
	28	7490	52.24	2.4	
	32	6660	46.48	2.7	
	37	5740	40.06	3.1	
	45	4670	32.55	3.9	
WFA 127 WFAF127 WF 127 WFF 127	15	14200	98.69	0.85	**4P**
	17	12500	87.08	0.95	
	19	10800	75.21	1.10	
	21	10000	69.89	1.20	
	23	9160	63.74	1.30	
	26	7930	55.16	1.50	
	30	7000	48.67	1.70	
	35	6040	42.04	2.0	
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	25	8330	58.12	0.90	**4P**
	29	7280	50.73	1.05	
	34	6170	43.03	1.25	
	39	5390	37.61	1.40	
	46	4560	31.80	1.55	
	43	4850	33.76	2.0	
	53	3950	27.57	2.2	
	58	3610	25.14	2.5	
	67	3120	21.76	2.5	
	76	2750	19.20	2.8	
	53	3940	27.44	1.10	
	59	3570	24.02	1.20	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
22 KW					
WFA 97 WFAF97 WF 97 WFF 97	66	3170	22.11	1.35	**4P**
	73	2880	20.07	1.50	
	85	2470	17.25	1.75	
	97	2160	15.06	2.0	
	115	1830	12.77	2.3	
	131	1600	11.16	2.6	
WFA 87 WFAF 87 WF 87 WFF 87	69	3060	21.32	1.00	**4P**
	76	2770	19.31	1.10	
	86	2460	17.12	1.20	
	95	2220	15.48	1.35	
	112	1880	13.12	1.60	
	128	1640	11.46	1.85	
	153	1370	9.58	2.1	
	177	1190	8.30	1.30	
	199	1050	7.35	1.45	
	220	950	6.65	1.60	
	260	810	5.63	1.90	
	298	705	4.92	2.2	
	356	590	4.12	2.5	
30 KW					
WFA 157 WFAF 157 WF 157 WFF 157	14	21100	108.49	0.85	**4P**
	15	18800	96.53	0.95	
	17	16700	85.80	1.10	
	19	15300	78.46	1.20	
	22	13300	68.28	1.35	
	24	11700	60.25	1.55	
	28	10200	52.24	1.75	
	32	9060	46.48	2.0	
	37	7810	40.06	2.3	
WFA 127 WFAF127 WF 127 WFF 127	19	14700	75.21	0.80	**4P**
	21	13700	69.89	0.90	
	23	12500	63.74	0.95	
	27	10800	55.16	1.10	
	30	9510	48.67	1.25	
	35	8210	42.04	1.45	
	39	7270	37.18	1.65	
	47	6110	31.25	1.95	
	58	4930	25.24	2.4	
	55	5240	26.79	1.65	
	60	4790	24.50	1.80	
	69	4170	21.32	2.9	
	78	3680	18.82	3.0	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
30 KW					
WFA 107 WFAF 107 WF 107 WFF 107	34	8390	43.03	0.90	**4P**
	39	7330	37.61	1.05	
	46	6200	31.80	1.25	
	53	5370	27.57	1.45	
	58	4900	25.14	1.60	
	68	4240	21.76	1.85	
	77	3740	19.20	2.1	
	89	3230	16.58	2.4	
	100	2860	14.67	2.7	
	119	2400	12.33	2.9	
	148	1940	9.96	3.3	
WF 97 WFF 97 WF 97 WFF97	66	4310	22.11	1.00	**4P**
	73	3910	20.07	1.10	
	85	3360	17.25	1.30	
	98	2930	15.06	1.45	
	115	2490	12.77	1.75	
	132	2180	11.16	1.96	
	162	1770	9.06	1.35	
	179	1600	8.22	1.45	
	208	1380	7.07	1.70	
	238	1200	6.17	1.85	
	281	1020	5.23	2.1	
	321	890	4.57	2.3	
37 KW					
WFA 157WR97 WFAF 157WR97 WF 157WR97 WFF 157 WR97	17	20600	85.80	0.85	**4P**
	19	18900	78.46	0.95	
	22	16400	68.28	1.10	
	24	14500	60.25	1.25	
	28	12600	52.24	1.45	
	32	11200	46.48	1.60	
	37	9630	40.06	1.85	
	45	7820	32.50	2.3	
	53	6630	27.60	2.7	
WFA 127 WFAF127 WF 127 WFF 127	27	13300	55.16	0.90	**4P**
	30	11700	48.67	1.00	
	35	10100	42.04	1.20	
	39	8960	37.18	1.35	
	47	7530	31.25	1.60	
	58	6080	25.24	1.95	
	55	6460	26.79	1.30	
	60	5910	24.50	1.45	
	69	5140	21.32	2.3	

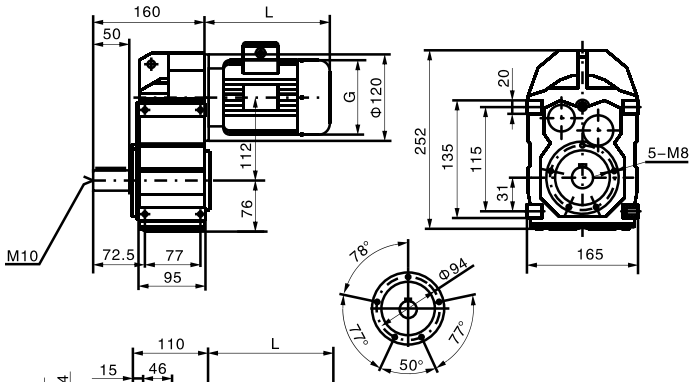
Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
37 KW					
	78	4530	18.82	2.4	
	90	3930	16.31	2.8	
	101	3500	14.51	3.1	
	117	3010	12.51	3.3	
	144	2450	10.16	3.9	
	166	2130	8.62	3.3	
	186	1890	7.88	3.2	
WFA 107 WFAF 107 WF 107 WFF 107	53	6630	27.57	1.20	
	58	6040	25.14	1.30	
	68	5230	21.76	1.50	
	77	4610	19.20	1.70	
	89	3990	16.58	1.95	
	100	3530	14.67	2.2	**4P**
	119	2960	12.33	2.4	
	148	2390	9.96	2.7	
	152	2330	9.69	2.1	
	176	2010	8.37	2.4	
	199	1780	7.40	2.6	
	236	1500	6.22	3.1	
45 KW					
WFA 157 WFAF 157 WF 157 WFF 157	22	20000	68.28	0.95	
	24	17600	60.25	1.00	
	28	15300	52.24	1.20	
	32	13600	46.48	1.30	**4P**
	37	11700	40.06	1.55	
	45	9510	32.55	1.90	
	53	8070	27.60	2.2	
WFA 127 WFAF127 WF 127 WFF 127	30	14300	48.67	0.85	
	35	12300	42.04	0.95	
	39	10900	37.18	1.10	
	47	9160	31.25	1.30	
	58	7400	25.24	1.60	
	55	7850	26.79	1.10	
	60	7180	24.50	1.20	
	69	6250	21.32	1.90	**4P**
	78	5520	18.82	2.0	
	90	4780	16.31	2.3	
	101	4250	14.51	2.6	
	117	3670	12.51	2.7	
	144	2980	10.16	3.2	
	166	2590	8.62	2.7	
	186	2300	7.88	2.6	

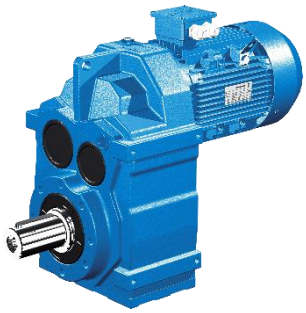
Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
45 KW					
	215	1990	6.80	3.5	
	266	1610	5.52	3.7	
55 KW					
WF 157 WFF 157 WF 157 WF 157	24	21500	60.25	0.85	
	28	18600	52.24	0.95	
	32	16500	46.48	1.10	
	37	14300	40.06	1.25	
	45	11600	32.55	1.55	
	53	9830	27.60	1.85	**4P**
	52	10200	28.60	1.65	
	58	9060	25.43	1.65	
	67	7890	22.16	2.3	
	75	7040	19.77	2.4	
	88	6000	16.85	3.0	
WFA 127 WFAF127 WF 127 WFF 127	40	13300	37.18	0.90	
	47	11200	31.25	1.10	
	58	9010	25.24	1.35	
	69	7610	21.32	1.60	
	78	6720	18.82	1.65	
	90	5820	16.31	1.90	
	101	5180	14.51	2.1	**4P**
	118	4470	12.51	2.2	
	145	3630	10.16	2.6	
	166	3160	8.62	2.2	
	187	2810	7.88	2.1	
	217	2420	6.80	2.9	
	267	1970	5.52	3.0	
	315	1670	4.68	3.6	
75 KW					
WFA 157 WFAF 157 WF 157 WFF 157	32	22500	46.48	1.60	
	37	19400	40.06	1.85	
	45	15800	32.55	2.3	
	54	13400	27.60	2.7	
	52	13800	28.60	0.90	
	58	12300	25.43	1.00	**4P**
	67	10700	22.16	1.20	
	75	9570	19.77	1.35	
	88	8150	16.85	1.60	
	106	6760	13.96	1.95	
	124	5770	11.92	1.30	
	58	12200	25.24	1.00	
	69	10300	21.32	1.15	

Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
75 KW					
WFA 127 WFAF127 WF 127 WFF 127	78	9130	18.82	1.20	**4P**
	90	7920	16.31	1.40	
	102	7040	14.51	1.55	
	118	6070	12.51	1.65	
	145	4930	10.16	1.95	
	167	4290	8.62	1.65	
	188	3810	7.88	1.55	
	218	3290	6.80	2.1	
	268	2670	5.52	2.2	
	316	2270	4.68	2.7	
90 KW					
WFA 157 WFAF157 WF 157 WFF 157	45	18900	32.55	0.95	**4P**
	54	16000	27.60	1.10	
	52	16600	28.60	1.00	
	58	14800	25.43	1.00	
	67	12900	22.16	1.40	
	75	11500	19.77	1.50	
	88	9790	16.85	1.85	
	106	8110	13.96	2.1	
	124	6920	11.92	2.3	
WFA 127 WFAF 127 WF 127 WFF 127	58	14700	25.24	0.80	**4P**
	69	12400	21.32	0.95	
	78	11000	18.82	1.00	
	90	9500	16.31	1.15	
	102	8450	14.51	1.30	
	118	7280	12.51	1.35	
	145	5920	10.16	1.60	
	167	5150	8.62	1.35	
	188	4580	7.88	1.30	
	218	3950	6.80	1.75	
	268	3210	5.52	1.85	
	316	2720	4.68	2.2	
110 KW					
WFA 157 WFAF157 WF 157 WFF 157	54	19500	27.60	0.90	**4P**
	67	15700	22.16	1.15	
	75	14000	19.77	1.20	
	88	11900	16.85	1.50	
	106	9880	13.96	1.70	
	125	8430	11.92	1.90	

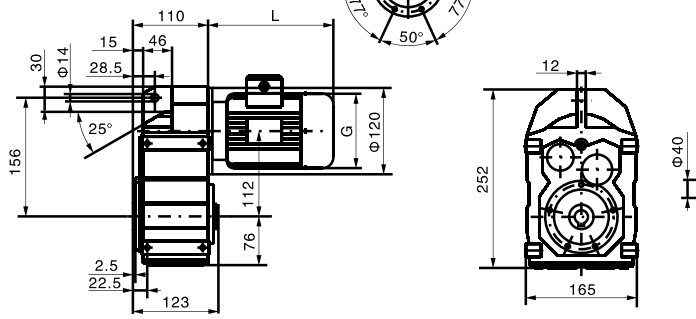
Type	Output Speed (r/min)	Output Torque (N.M)	Ratio (i)	Service Factor (F_B)	Motor Pole
132 KW					
WF 157 WFF 157 WF 157 WFF 157	67	18800	22.16	1.15	**4P**
	75	16800	19.77	1.20	
	88	14300	16.85	1.50	
	106	11900	13.96	1.70	
	125	10100	11.92	1.90	
160 KW					
WF 157 WFF 157 WF 157 WFF 157	88	17300	16.85	1.05	**4P**
	106	14400	13.96	1.20	
	125	12300	11.92	1.30	
200 KW					
WF 157 WFF 157 WF 157 WFF 157	88	21700	16.85	0.85	**4P**
	106	18000	13.96	0.95	
	125	15300	11.92	1.05	

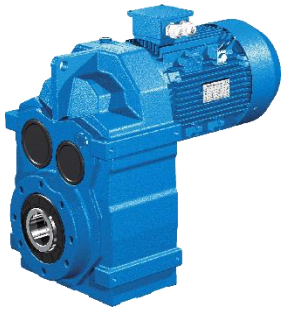
WF37



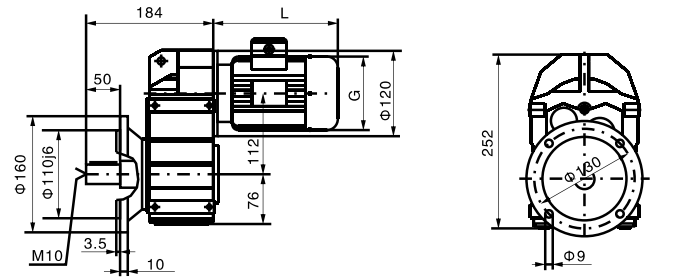


WFA37

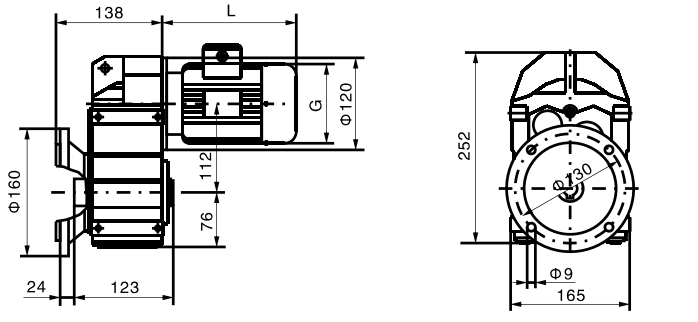




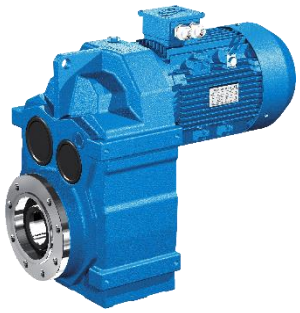
WFF37

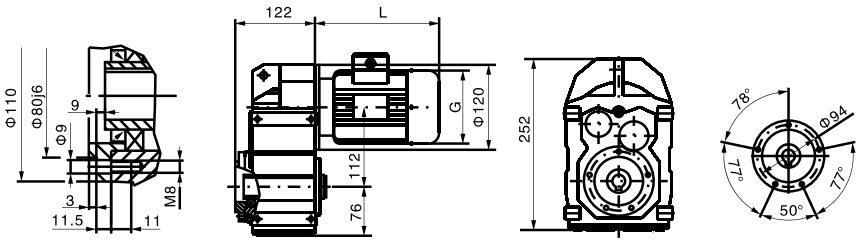


WFAF37

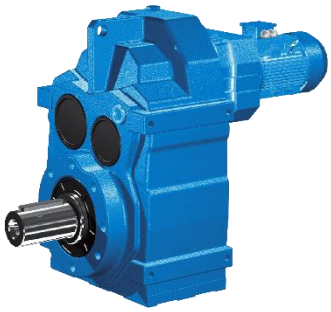


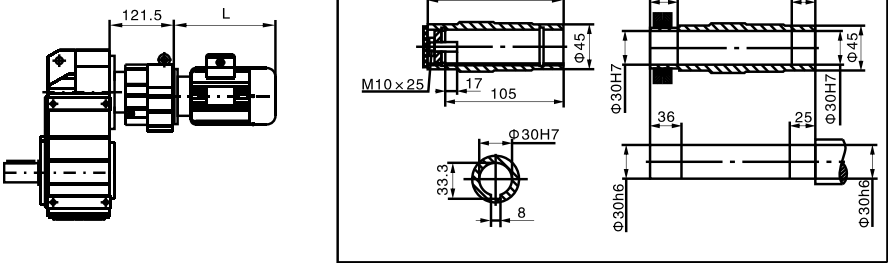
WFAZ37



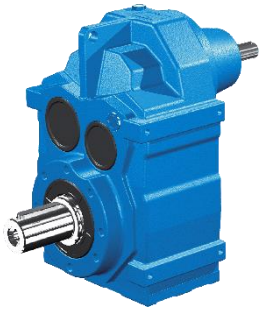


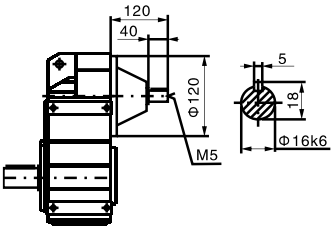
WF..37WR17



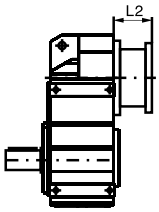


WF..S37

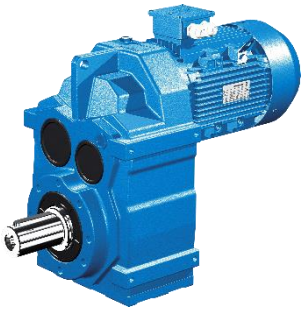


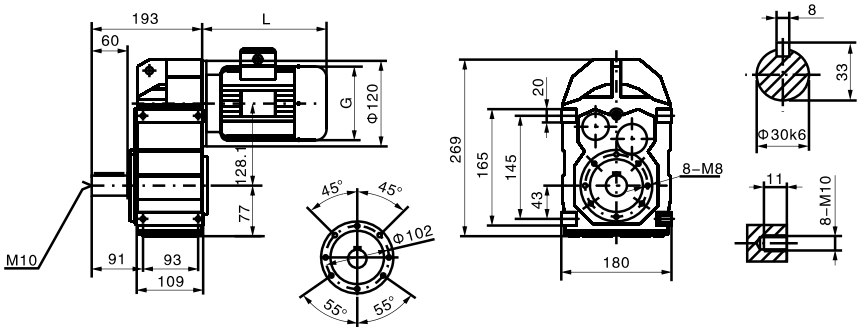


When the motor is equipped by the purchaser or with a special motor a connecting flange is required

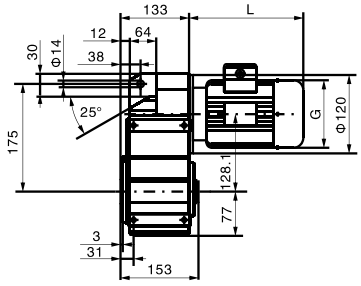


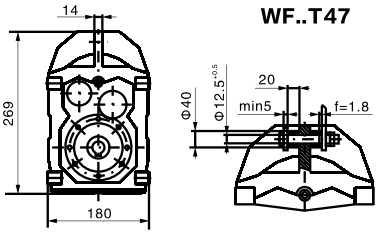
WF47



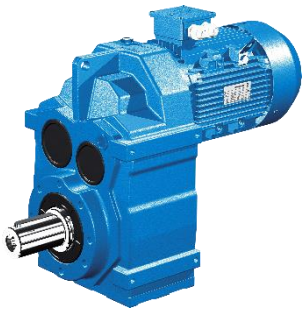


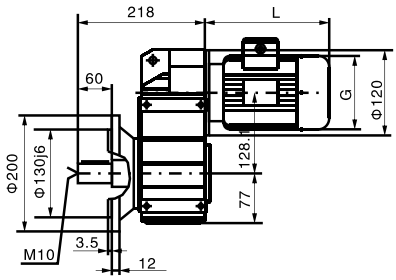
WFA47

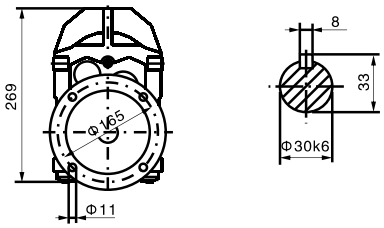




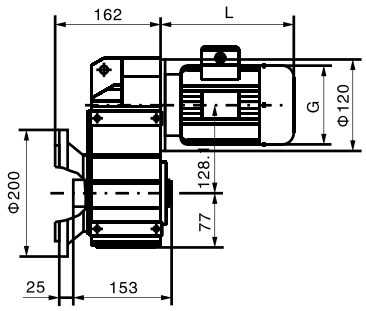
WFF47

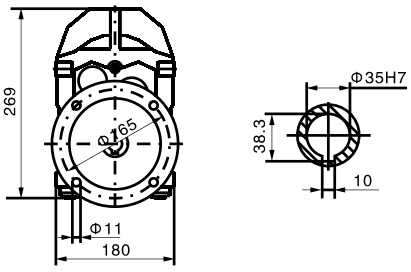




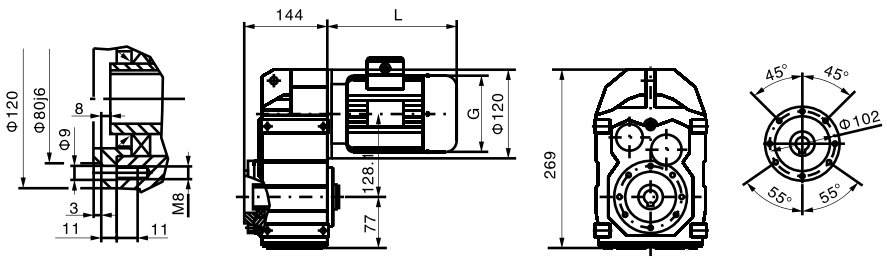


WFAF47

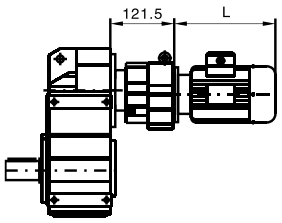


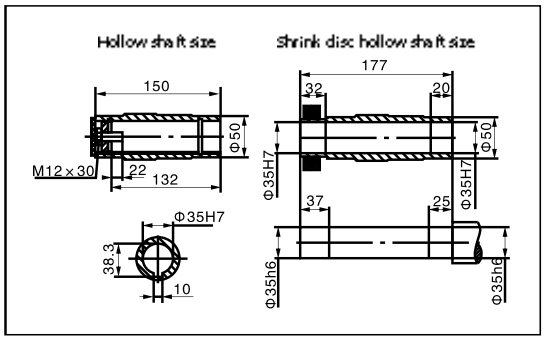


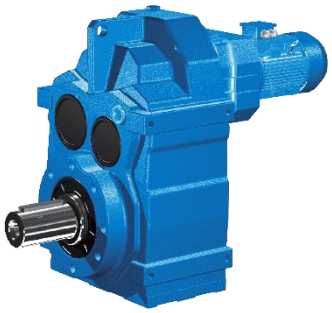
WFAZ47



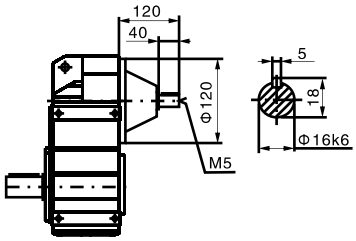
WF..47WR17



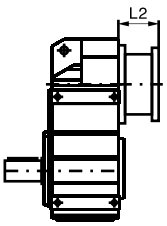


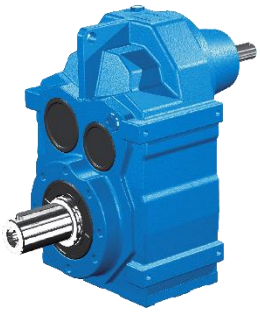


WF..S47

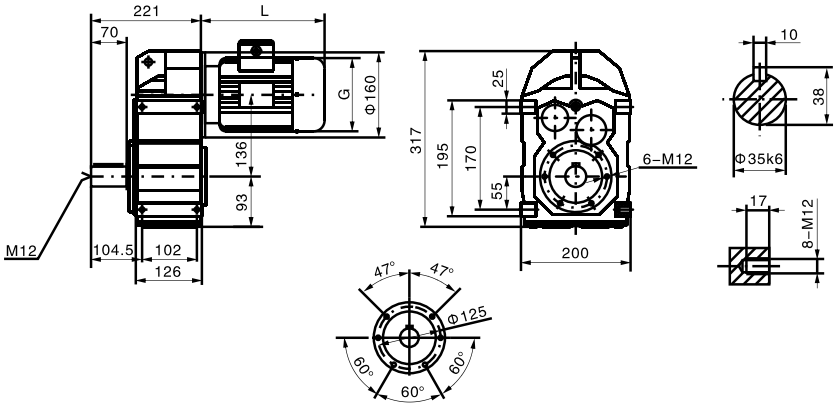


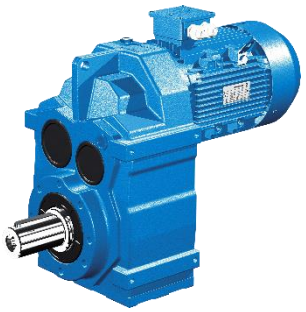
When the motor is equipped
By the purchaser or with a special motor
a connecting flange is required



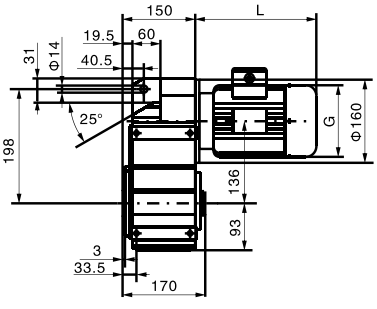


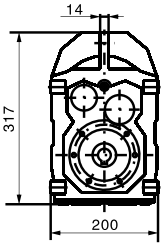
WF57



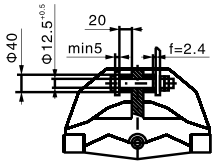


WFA57

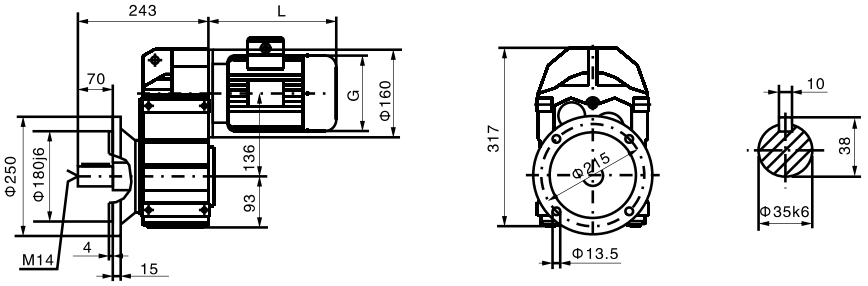




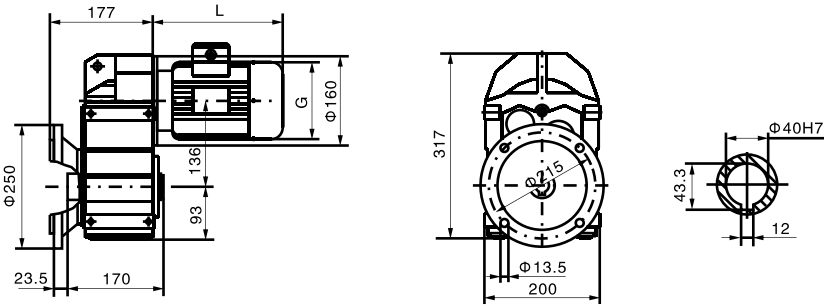
WF..T57



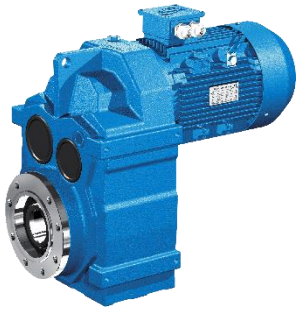
WFF57

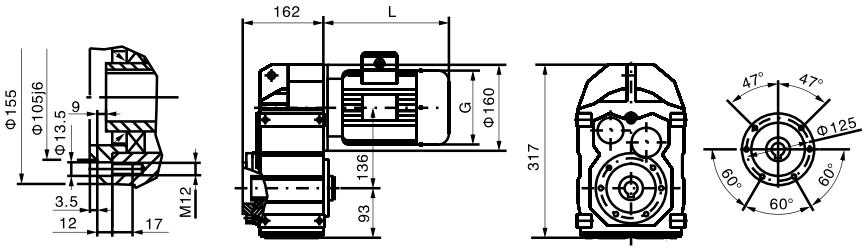


WFAF57

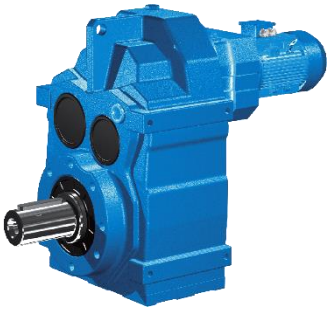


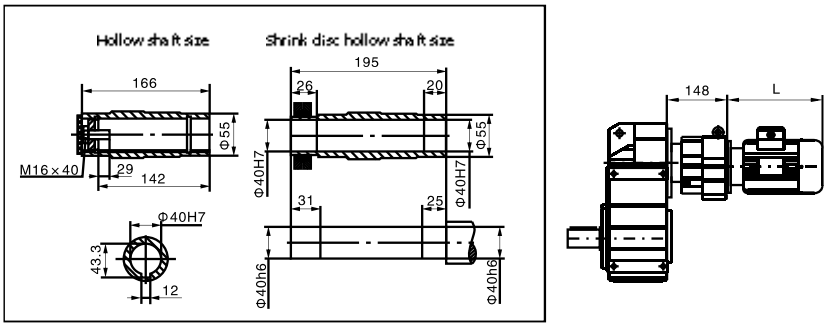
WFAZ57



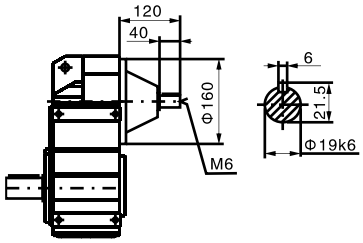


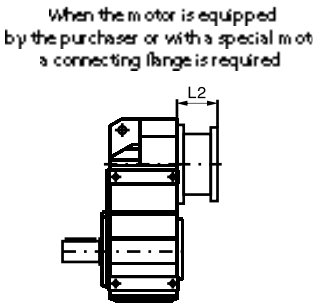
WF..57WR37

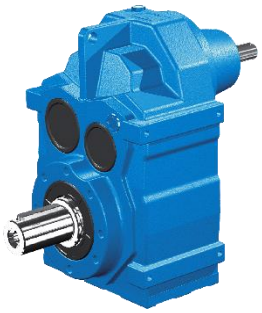




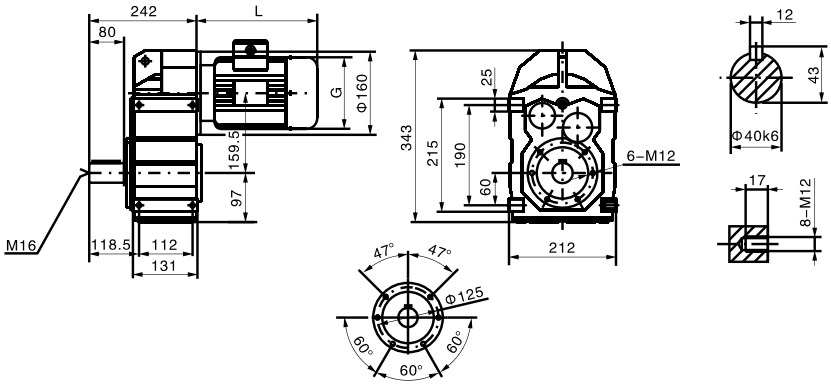
WF..S57

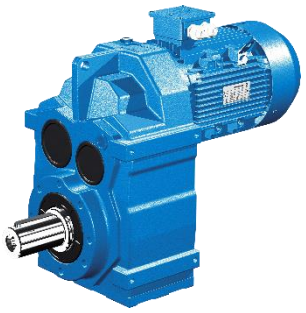




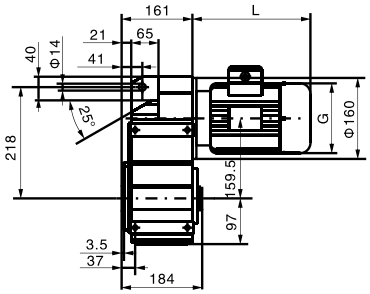


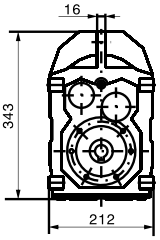
WF67



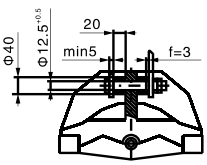


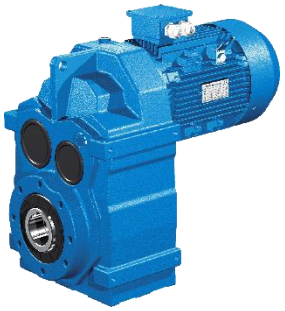
WFA67



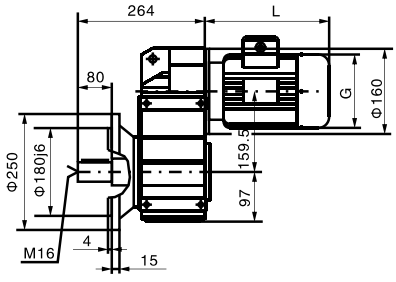


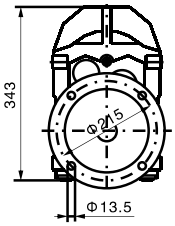
WF..T67

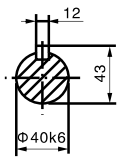




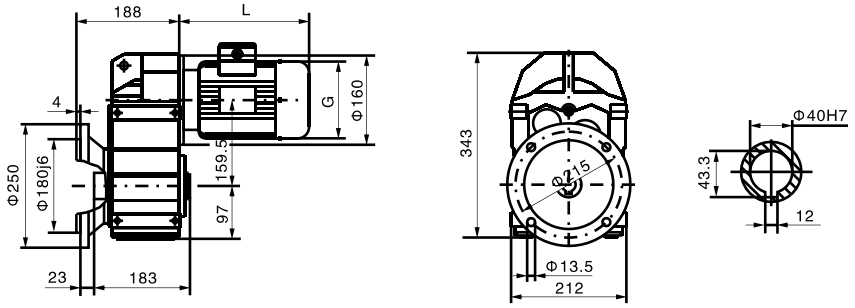
WFF67



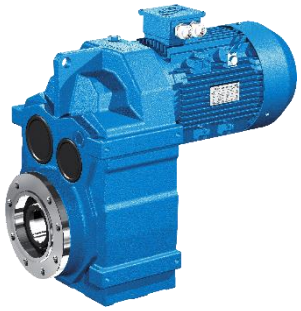


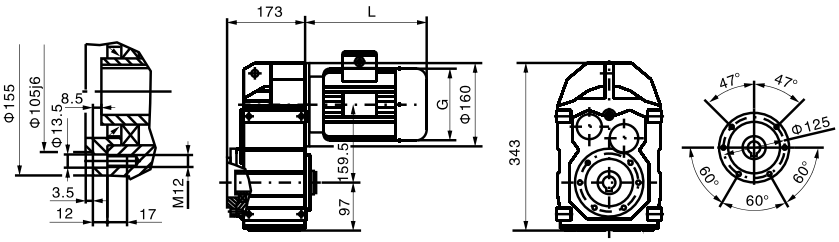


WFAF67

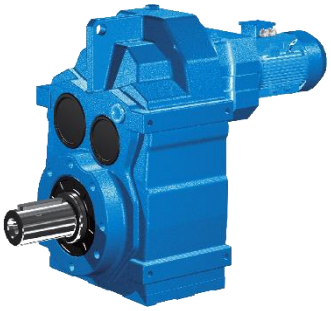


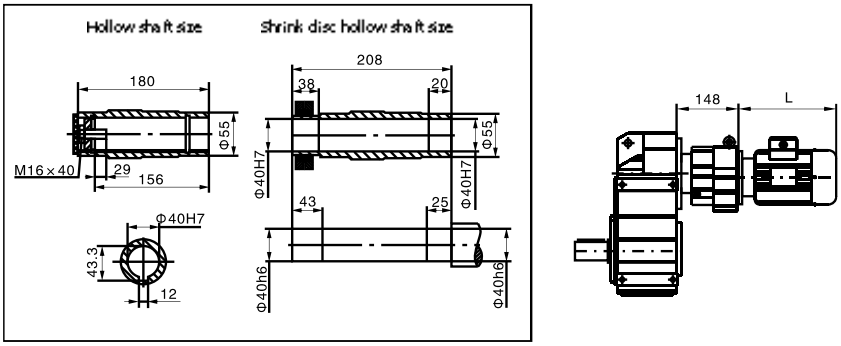
WFAZ67



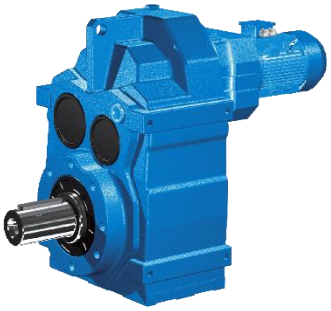


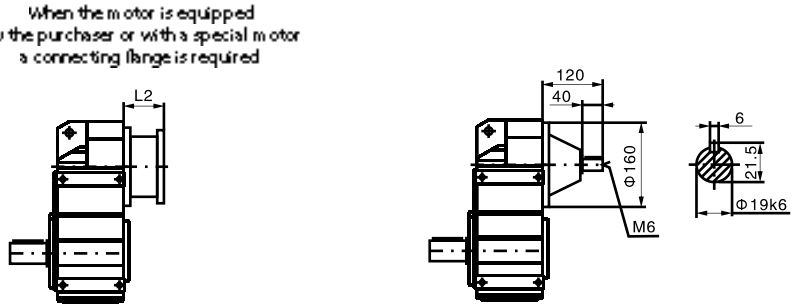
WF..67WR37

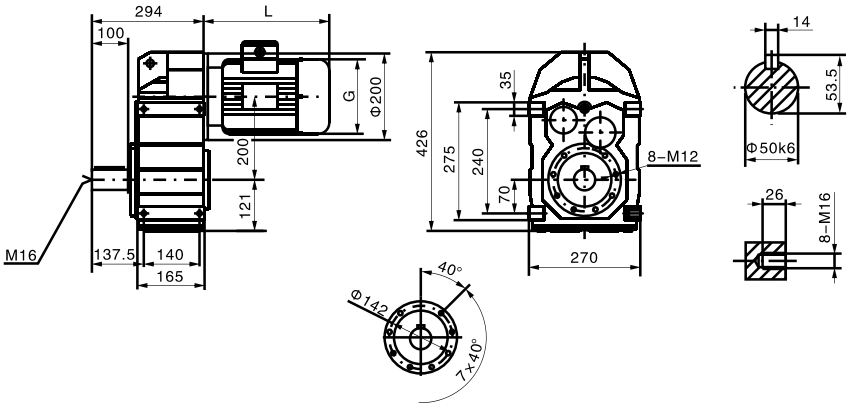




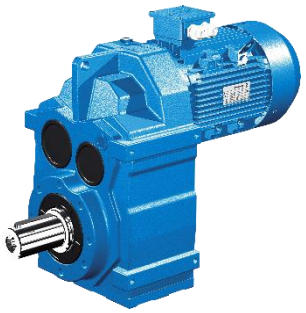
WF..S6J

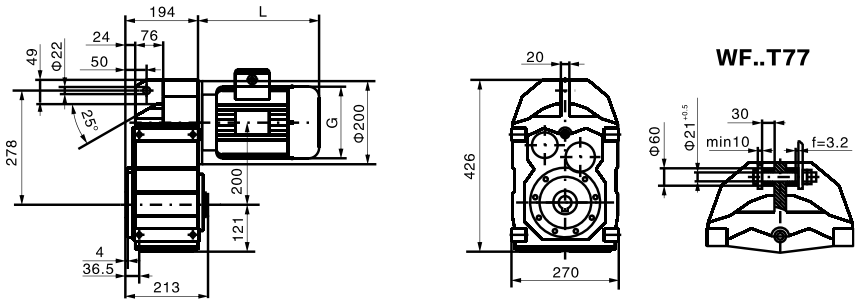




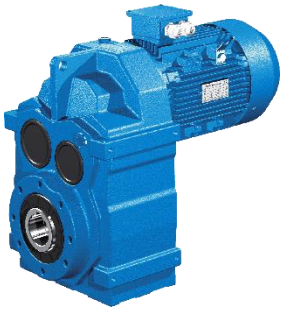


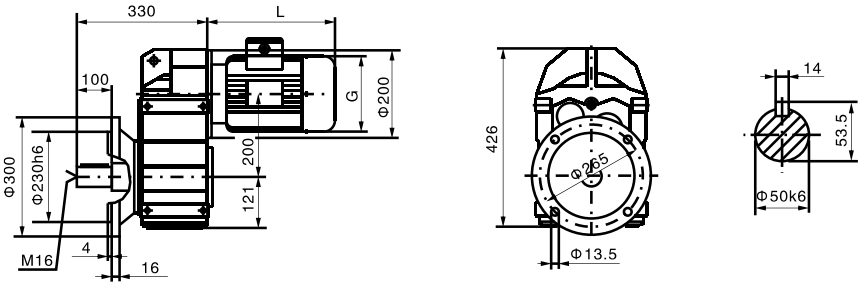
WF77



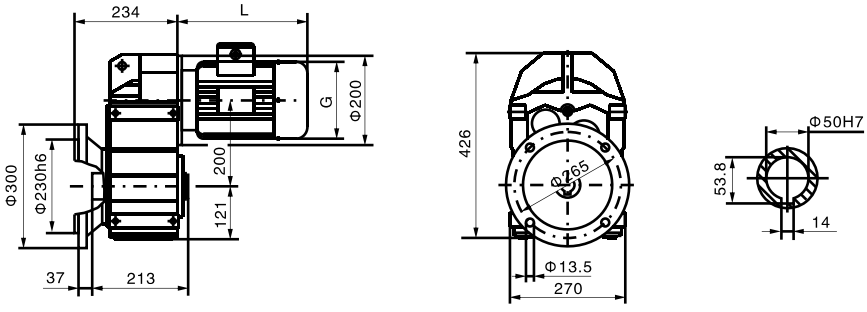


WFA77



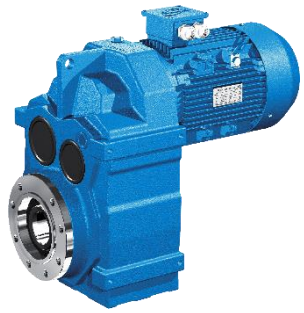


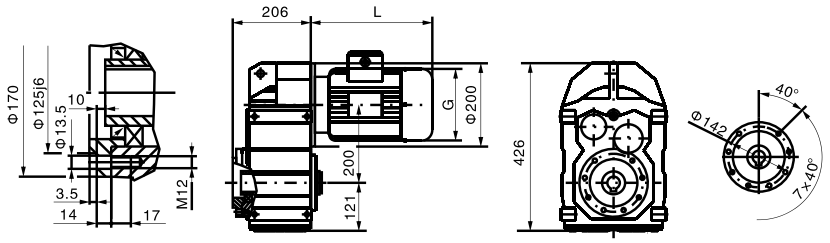
WF77



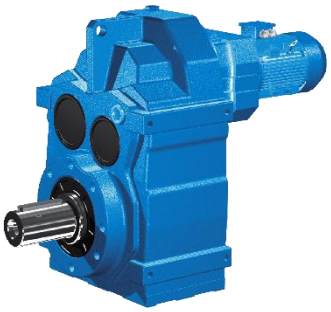
WFAF77

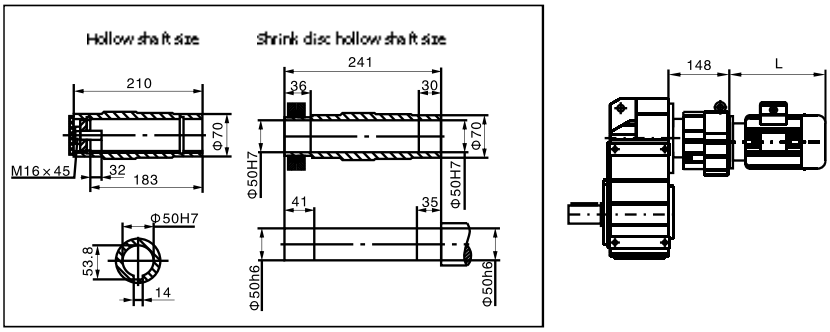
WFAZ77



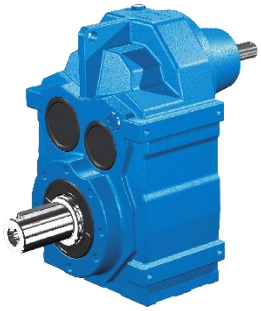


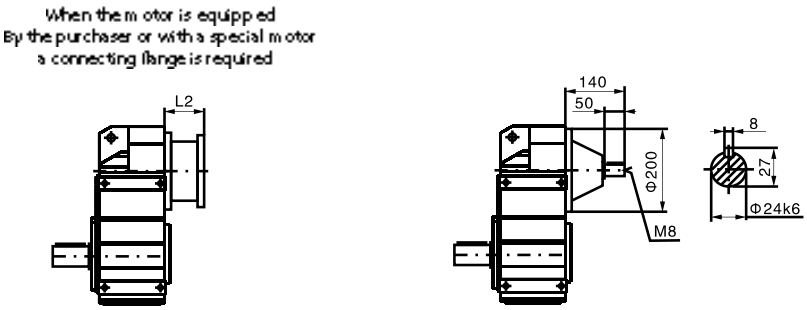
WF..77WR37



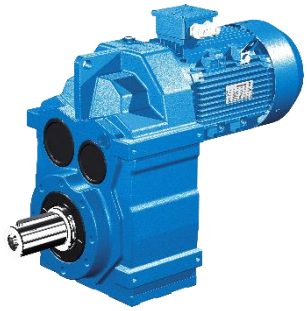


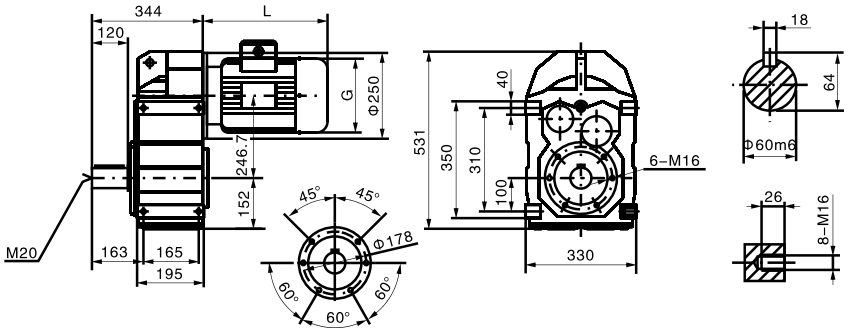
WF..S77



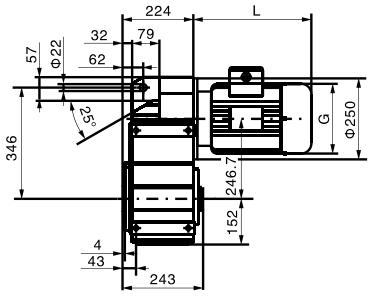


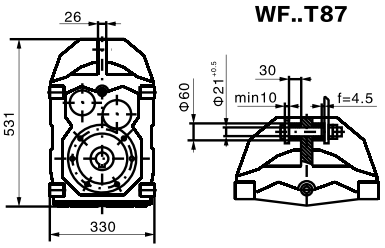
WF..S6J

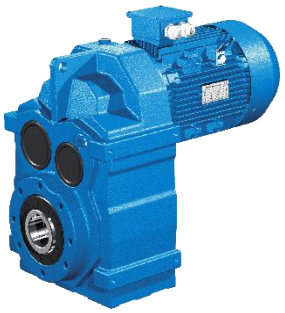




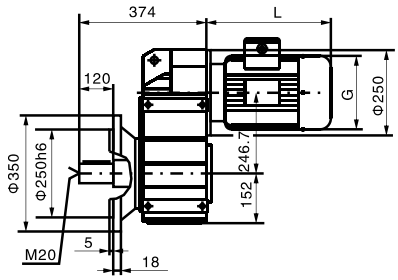
WF87

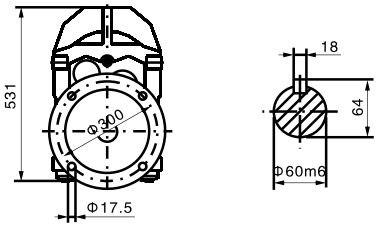




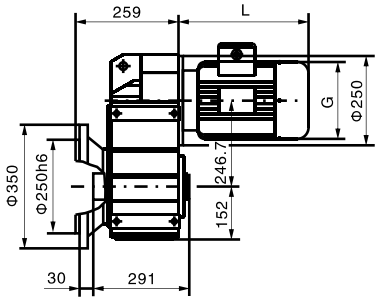


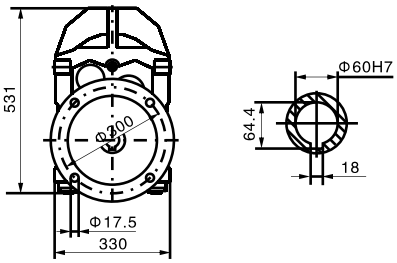
WFF87



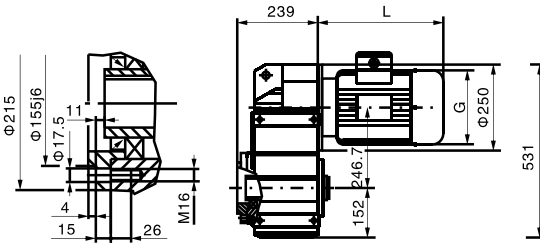


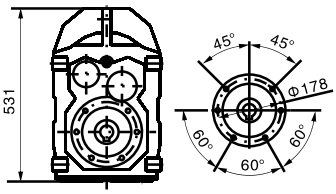
WFAF87



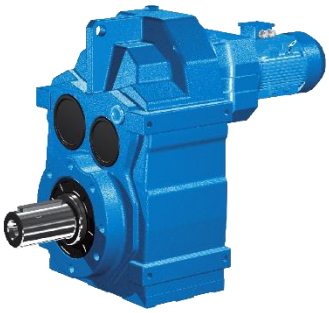


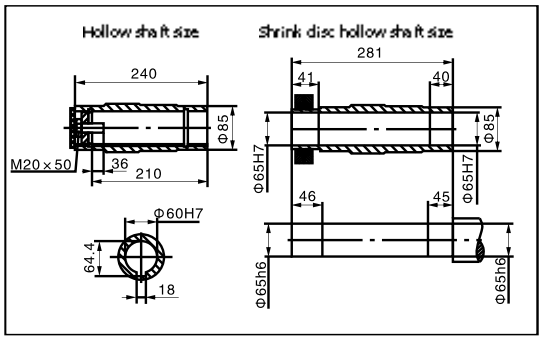
WFAZ87



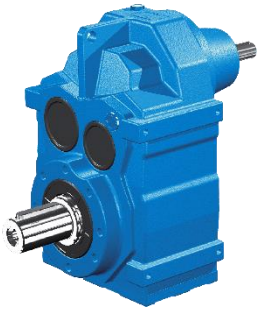


WF..87WR57

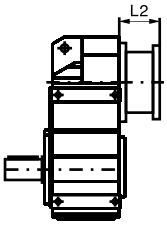


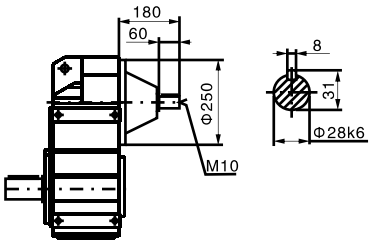


WF..S87

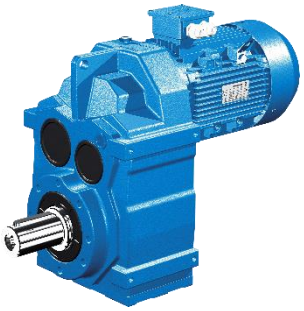


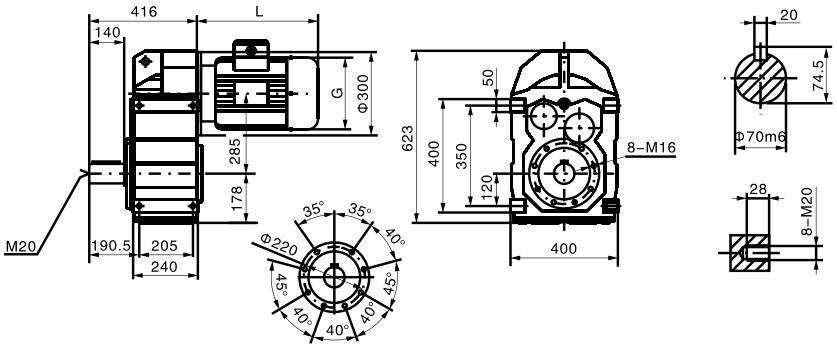
When the motor is equipped by the purchaser or with a special motor a connecting flange is required



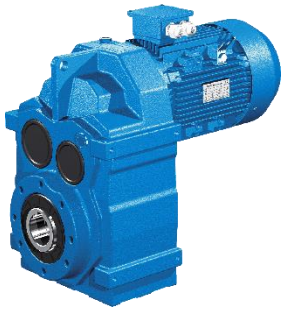


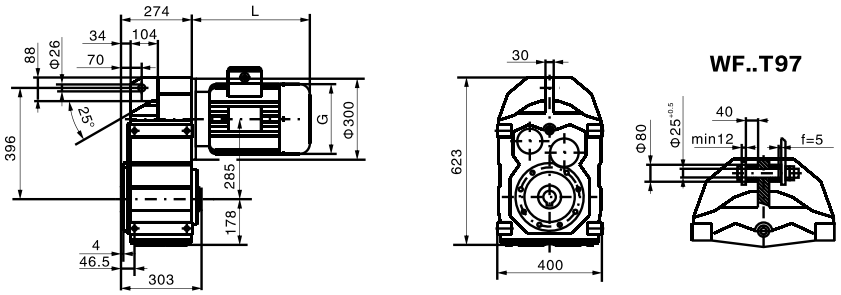
WF97



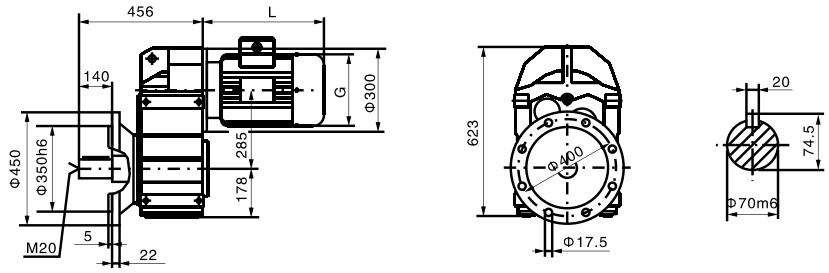


WFA97

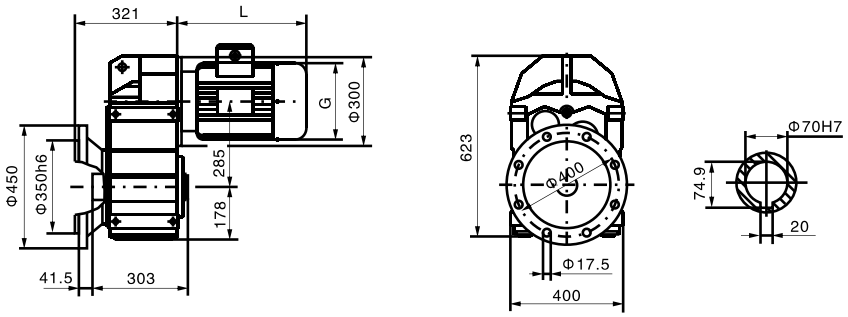




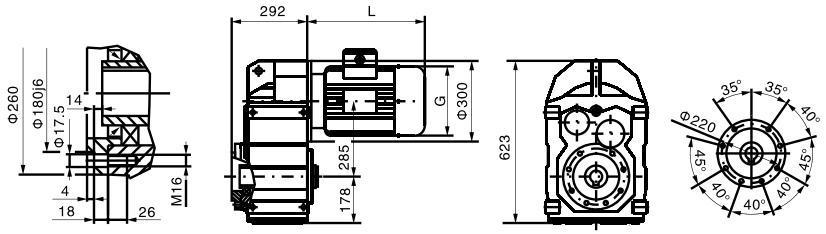
WFF97



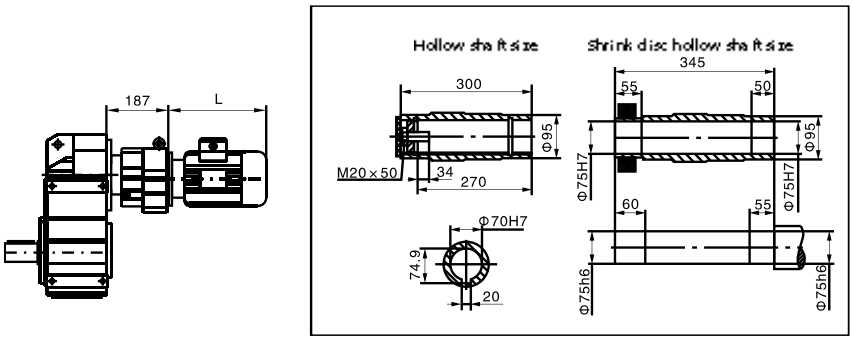
WFAF97

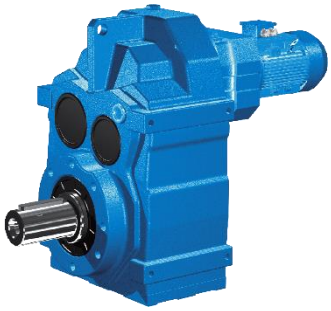


WFAZ97

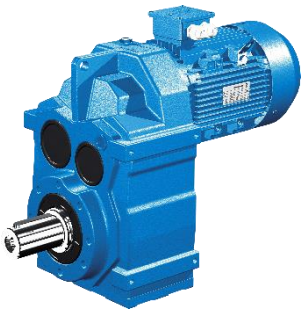


WF..97WR57

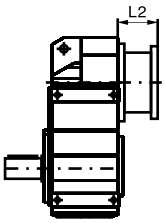


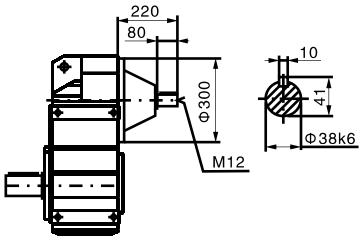


WF..S97

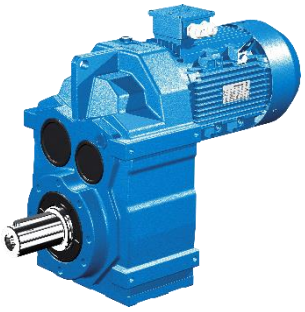


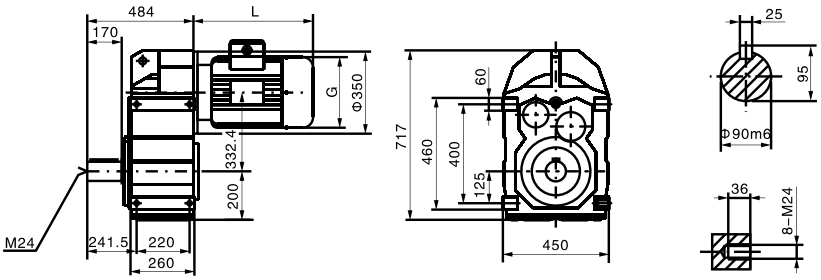
When the motor is equipped
By the purchaser or with a special motor
a connecting flange is required



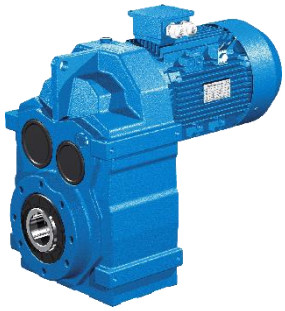


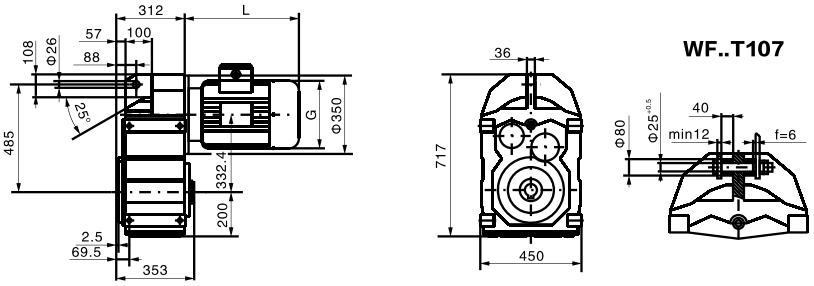
WF107



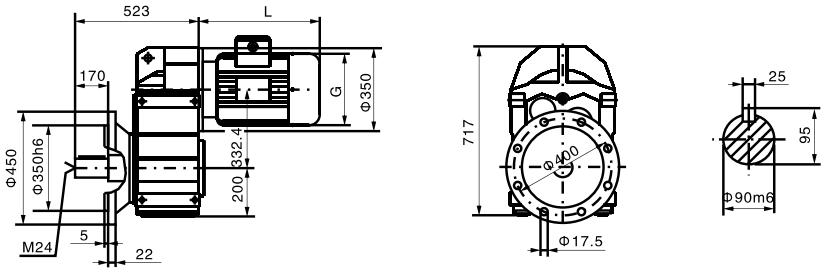


WFA107

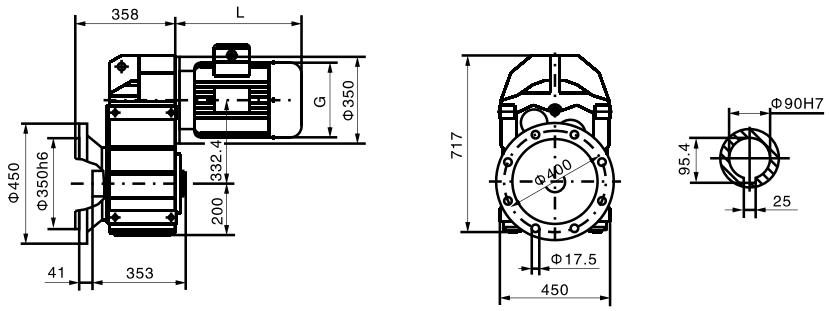




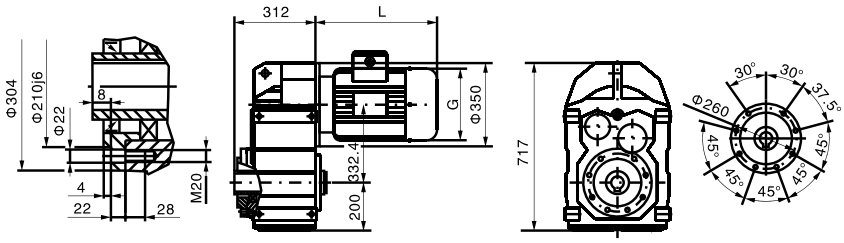
WFF107



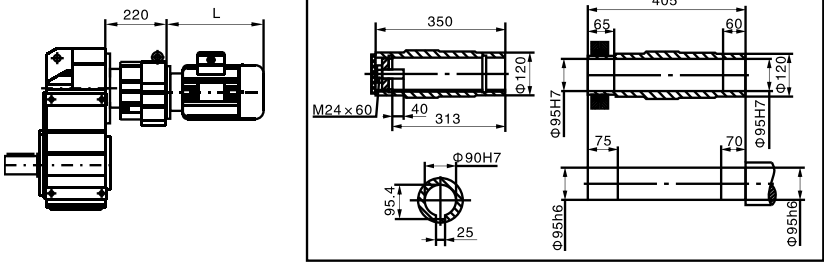
WFAF107

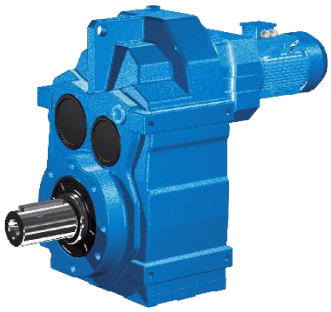


WFAZ107

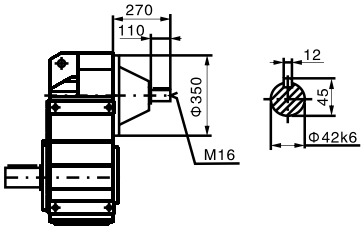


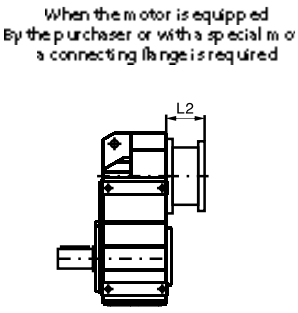
WF..107WR77

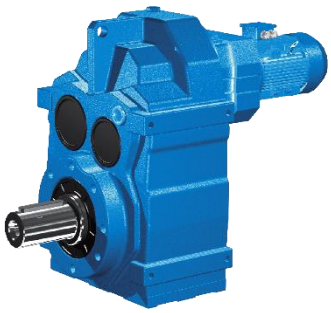




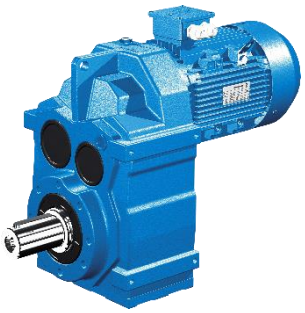
WF..S107

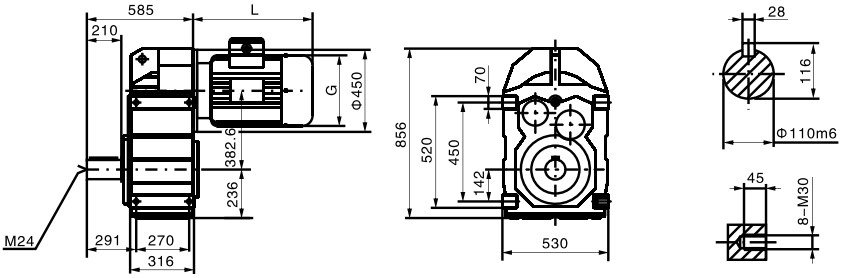




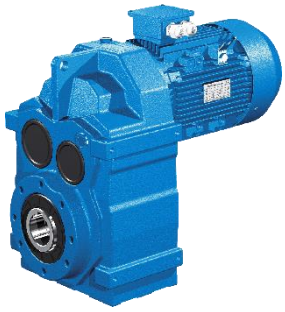


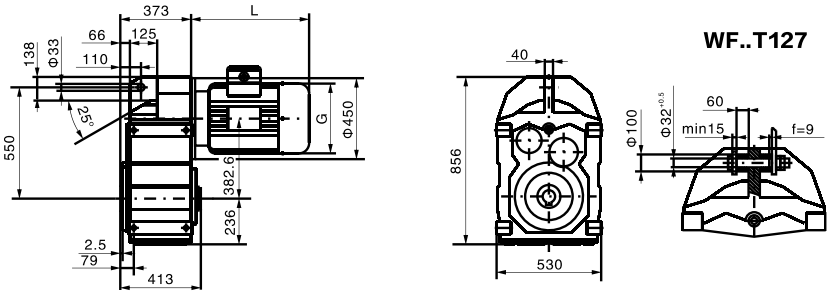
WF127



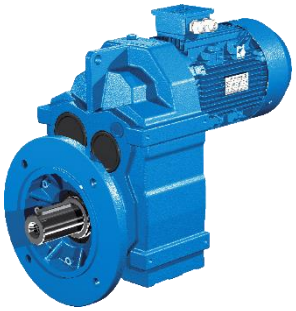


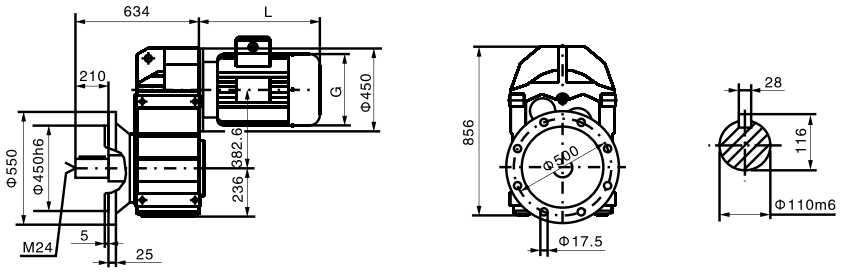
WFA127



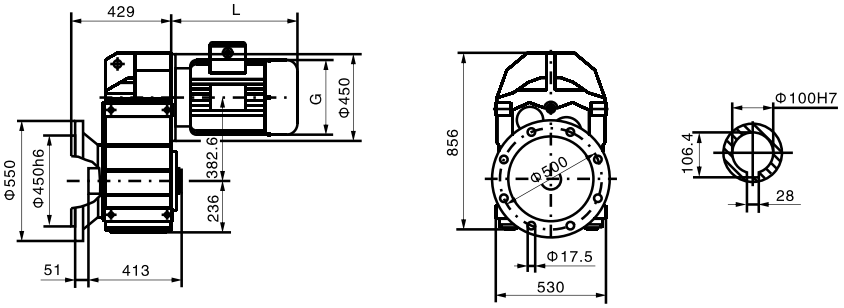


WFF127

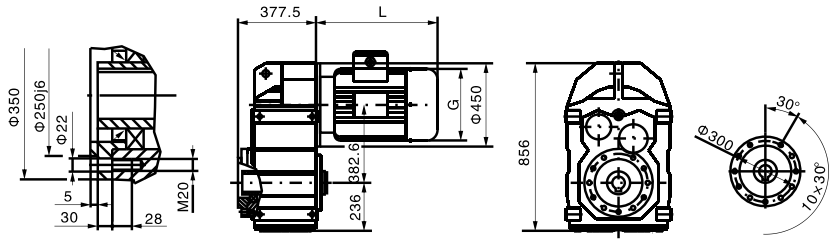


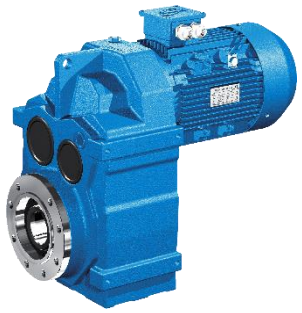


WFAF127

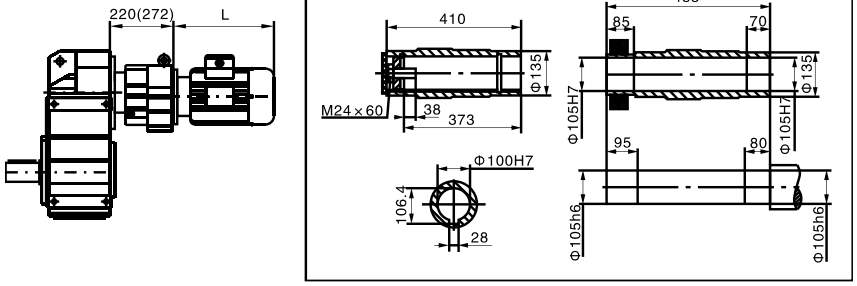


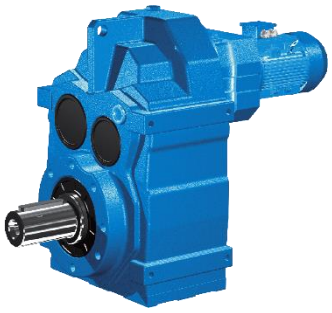
WFAZ127



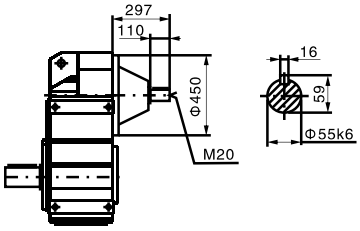


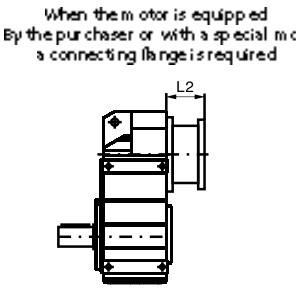
WF..127WR77(87)

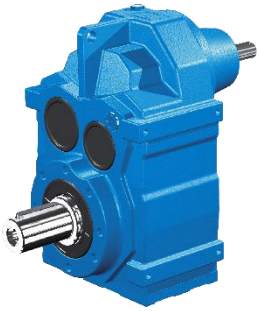




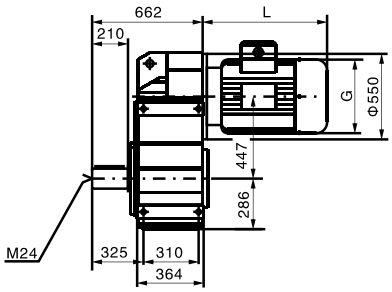
WF..S127

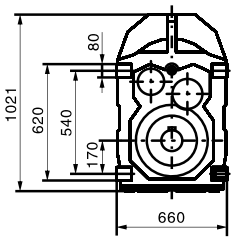


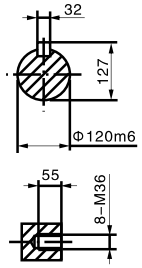


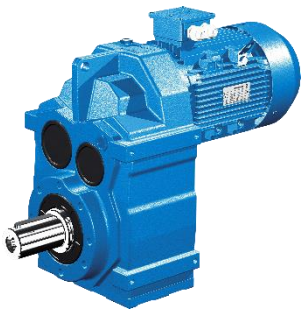


WF157

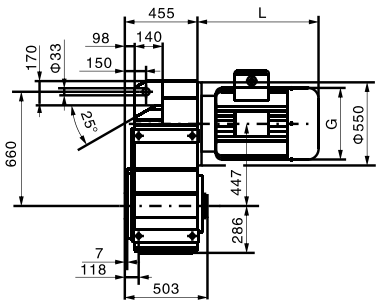


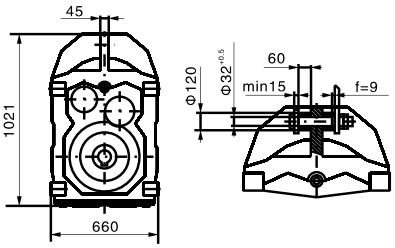




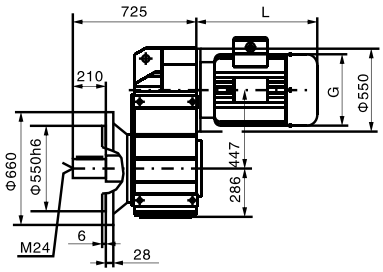


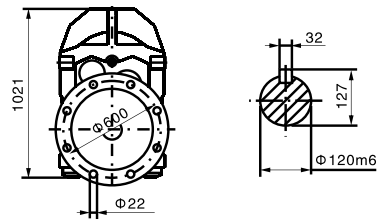
WFA157



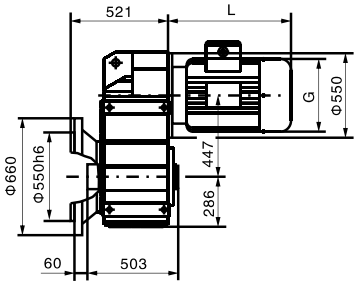


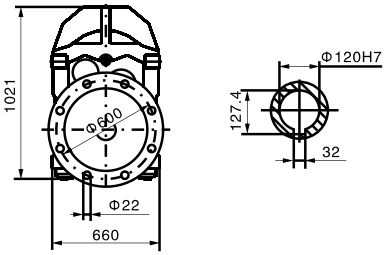
WFF157



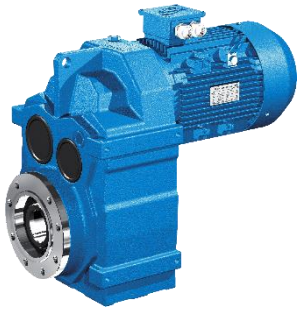


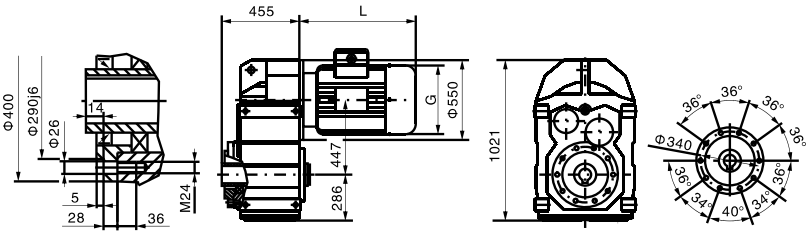
WFAF157



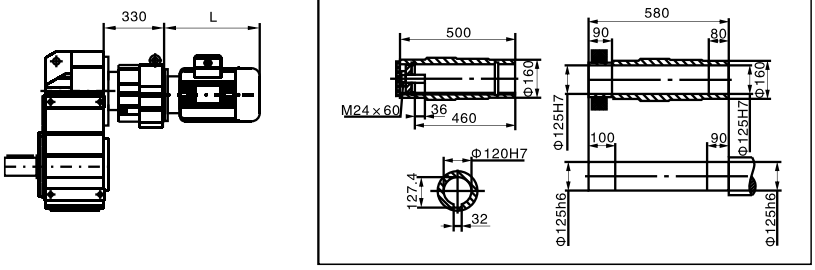


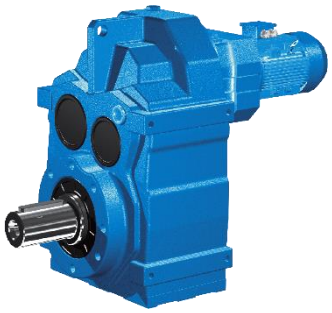
WFAZ157



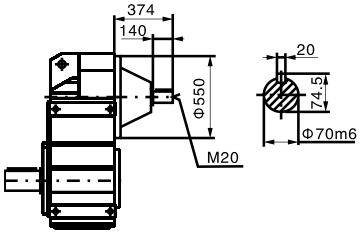


WF..157WR97

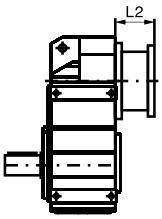


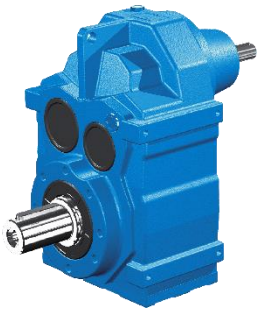


WF..S157



When the motor is equipped
By the purchaser or with a special m
a connecting flange is required






FUJITA
HEAVY DUTY ELECTRIC MOTORS

INDOTARA®

PT. INDOTARA PERSADA

Our Marketing Office and After Sales Service Center

Head Office

50/F, Menara BCA Grand Indonesia
Jl. M.H. Thamrin No.1
Jakarta Pusat 10310
021 - 5011 2227
dee@indotara.id

Marketing Office

APL Tower 6th Floor No. 6 Central Park,
Jl. Letjen S. Parman Kav 28,
Jakarta Barat - 11440
021 - 5011 2227
dee@indotara.id

Graha Indotara

Millenium Industrial Estate
Jl. Millenium 22 Blok R3 No. 1
Cikupa, Tangerang - Banten 15720
021 - 5011 2227
dee@indotara.id

Bandung Office

Wisma HSBC Lt. 6 Suite B
Jl. Asia Afrika No. 116
Bandung, Jawa Barat 40112
021 - 5011 2227
bdg.dee@indotara.id

Surabaya Office

Japfa Indoland Center, Tower I Lt. 10/1008
Jl. Jendral Basuki Rahmat 129-137
Surabaya 60271
031 - 3360 1490
sby.dee@indotara.id

Yogyakarta Office

Hartono Mall Yogyakarta Lt. 3
Kaliwaru, Condongcatur,
Sleman, Yogyakarta 55281
021 - 5011 2227
yog.dee@indotara.id

Semarang Office

Wisma HSBC Lt. 6 Suite 609
Jl. Gajah Mada No.135
Semarang, Jawa Tengah 50134
024 - 40 300 892
smg.dee@indotara.id

Medan Office

Sutomo Tower Lantai 5H
Jl. Sutomo Ujung No.28,
Kota Medan, Sumatera Utara 20235
061 - 50 300 594
mdn.dee@indotara.id

Makassar Office

Fajar Graha Pena Lt. 5
Jl. Urip Sumoharjo No. 20,
Makassar - South Sulawesi 90234
021 - 5011 2227
mks.dee@indotara.id

Balikpapan Office

Panin Tower Lt. 8 - Grand Sudirman
Jl. Jendral Sudirman No.7 Klandasan Ilir,
Balikpapan Kota, Kalimantan Timur 76114
021 - 5011 2227
bpp.dee@indotara.id

Bali Office

Benoa Square Lt. 2
Jl. Bypass Ngurah Rai No. 21 A Kedonganan,
Kuta Badung - Bali Indonesia 80361
021 - 5011 2227
bali.dee@indotara.id

Singapore Office

Marina Bay Financial Centre Tower 3
17F, 12 Marina Boulevard
Singapore - 018982
021 - 5011 2227
sing.dee@indotara.id