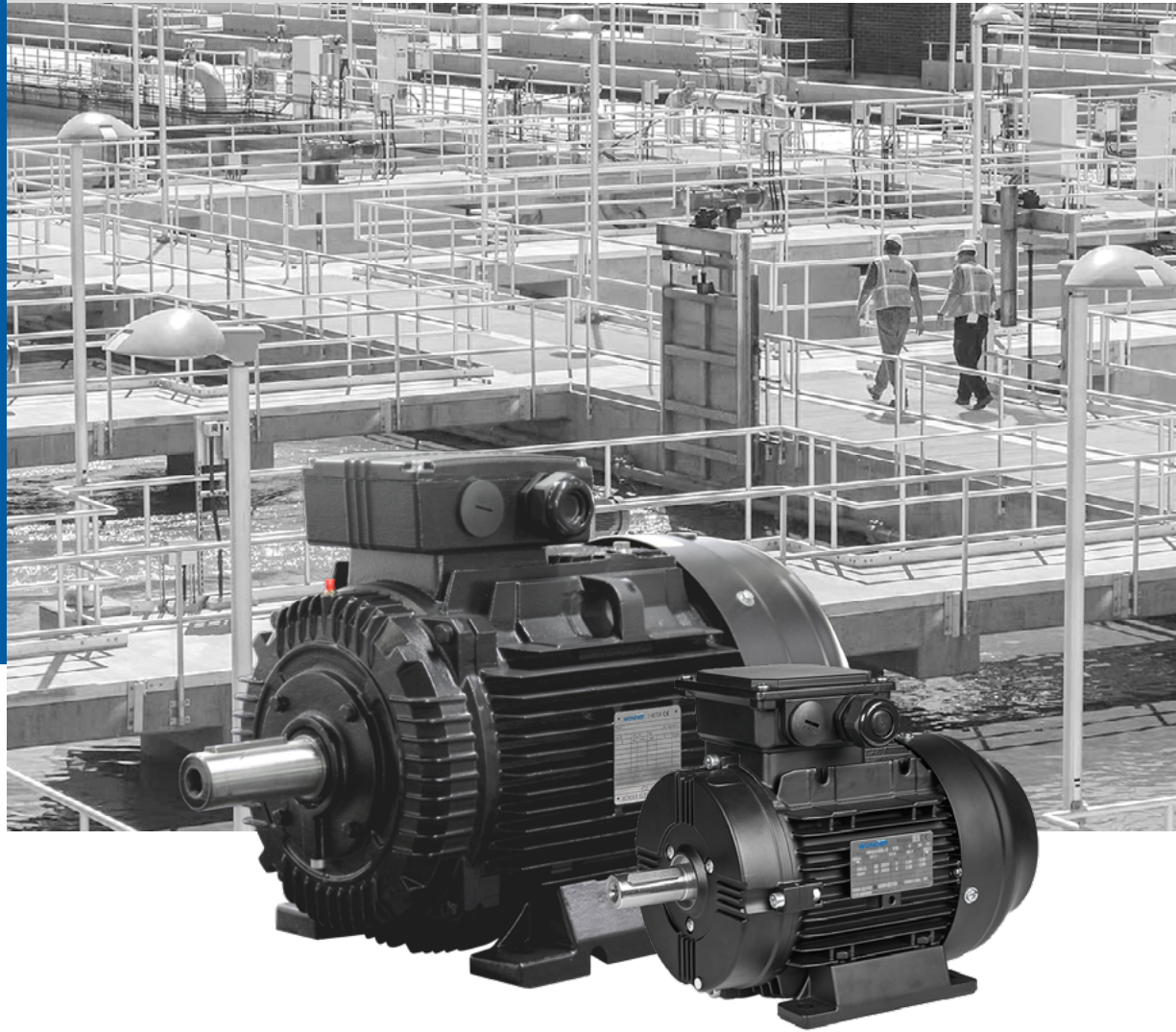




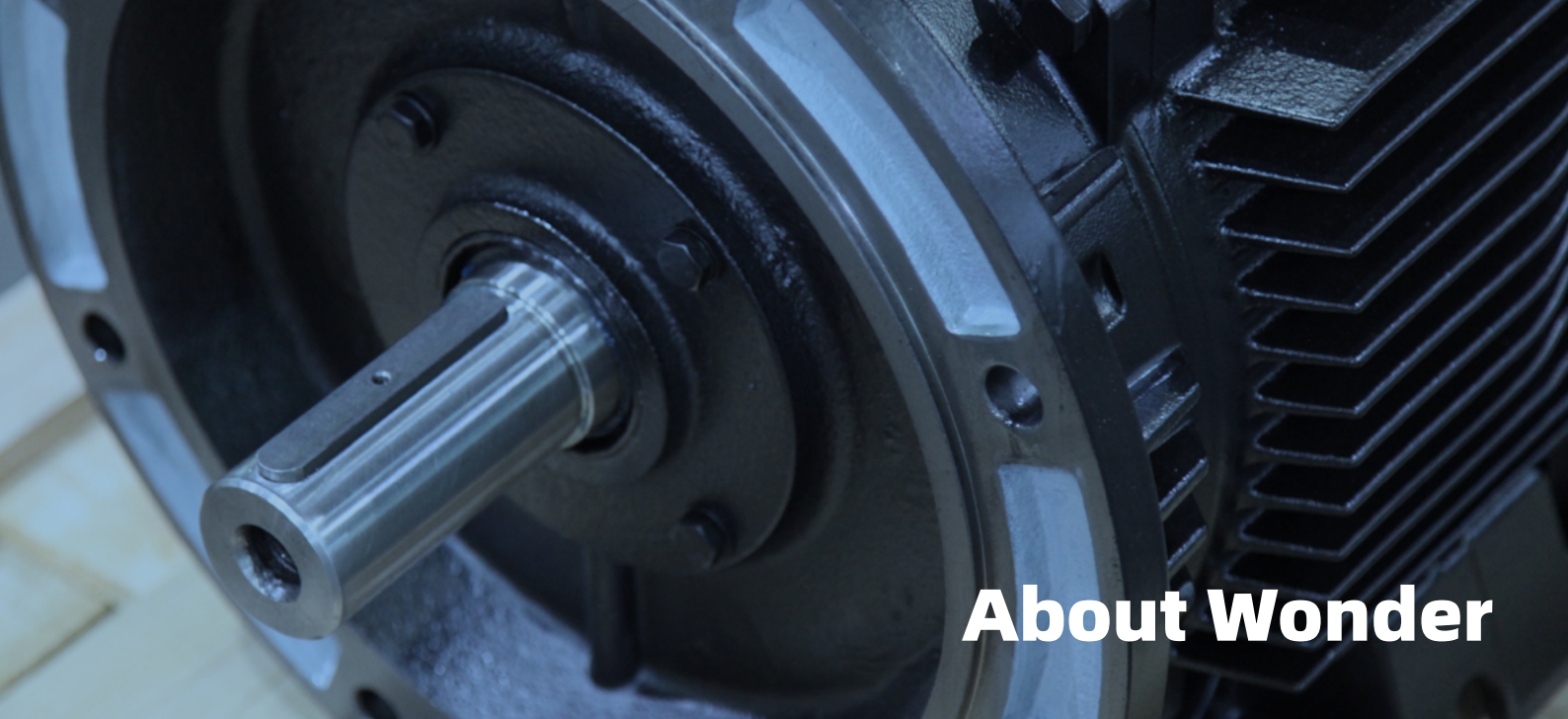
IE5 Three Phase Induction Asynchronous Motors

WE5 Series

- Ultra premium efficiency (IEC60034 IE5)
- Low noise and low vibration
- Stable operation and excellent performance
- Exquisite appearance

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About Wonder

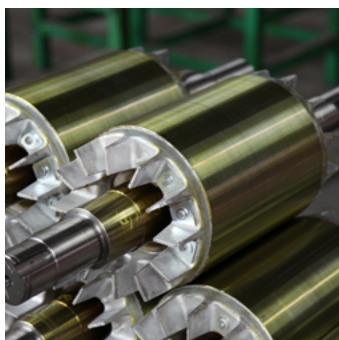
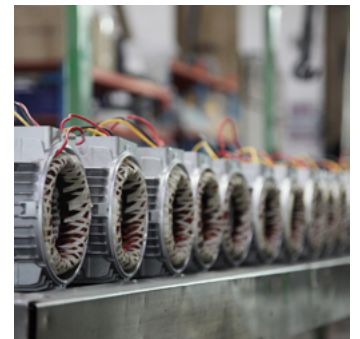
Wonder has been certified as a national-level high-tech company, which is recognition of its work in the field of energy conservation.

PM synchronous motor expert and pioneer of high-efficiency industrial motors, while providing the market with various types of high-performance industrial motors.

Wonder owns four major production bases, serving over 50 countries and regions around the world.

Wonder has obtained qualifications such as CE, CCC, UKCA, UL, CSA, SABs, etc. Wonder has gained recognition in major global markets.

Wonder is headquartered in Fuzhou City, Fujian Province, China. With over 40 years of experience in motor manufacturing, we are able to provide power solutions for the majority of industrial applications.



WE5 Series

Three Phase Induction Asynchronous Motors (IE5)



1. General information

1.1. Brief

The WE5 Series is a ultra premium efficiency three-phase asynchronous induction motor independently developed by Wonder. This product line has been globally promoted. The series meets the IEC60034 efficiency level of IE5. The installation size conforms to the IEC standard, allowing customers to switch quickly.

The WE5 Series has the characteristics of ultra premium efficiency, low noise, low vibration, stable operation, exquisite appearance, safety and reliability, and convenient maintenance.

The series is mainly used in equipment such as fans, water pumps, compressors, construction machinery, etc. It is suitable for various fields such as architecture, tunnel engineering, industrial automation, water treatment, mining and agriculture, etc.

1.2. Standard and qualifications

Wonder products meet the IEC international standards and can also be provided to comply with specific regulations in other countries. Please refer to the table below for the standards that Wonder products are based on.

Wonder has also obtained qualifications of ISO9001, ISO14001 and ISO45001, with the support of the perfect quality management and control system.

Title	DIN / VDE / EN	IEC standard	GB standard
General regulations for rotating electrical machines	DIN EN 60034-1	IEC 60034-1	GB 755-2019
Noise for rotating electrical machines	-	IEC 60034-9	GB 10069.1
AC induction motors for general use with standardized dimensions and power	DIN EN 50347	IEC 60072	GB/T 4772.1-1999 Part 1
Starting performance of single-speed three-phase cage induction motors for voltages up to and including 660 V	DIN EN 60034-12	IEC 60034-12	JB/T 8158-1999
Terminal markings and direction of rotation for rotating electrical machines	DIN VDE 0530	IEC 60034-8 Part 8	GB1971-2006
Designation for type of construction, installation and terminal box position	DIN EN 60034-7	IEC 60034-7	GB/T 997-2008
IEC standard voltages	DIN IEC 60038	IEC 60038	-
Cooling methods for rotating electrical machines	DIN EN 60034-6	IEC 60034-6	GB/T 1993-1993
Mechanical vibrations of rotating electrical machines	DIN EN 60034-14	IEC 60034-14	GB 10068-2020
Degrees of protection for rotating electrical machines	DIN EN 60034-5	IEC 60034-5	GB/T 4942.1-2016

1.3. Features of WE5 Series

Outstanding energy-saving performance

The energy efficiency of WE5 Series reaches IE5 level defined by IEC60034, which can bring considerable energy saving effect for the application terminal. While reducing the carbon emissions from enterprises, it also reduces overall production cost and shorten the return on investment cycle.

Low noise and low vibration

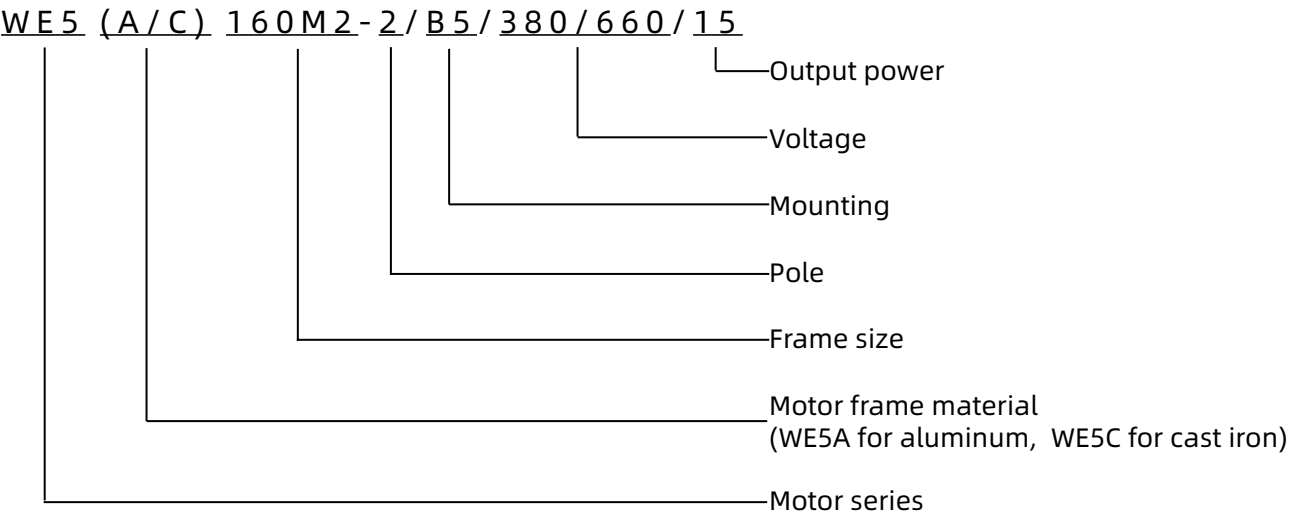
Wonder motors adopt advanced design and manufacturing processes, which result in significant low-vibration and low-noise features. These characteristics make Wonder motors perform well in many applications that are sensitive to vibration and noise.

Ultra stability and reliability

Wonder motors have the advantage of long-term stable operation, primarily due to its low temperature rise and well-developed insulation system. The newly designed high-efficiency motor by Wonder improves air circulation, ensuring lower operating temperatures and avoiding performance degradation or damage caused by excessive heat. Additionally, Wonder has consistently adhered to high standards for winding and insulation materials, guaranteeing prolonged and reliable motor operation while reducing costs associated with motor failures and maintenance.

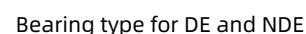


1.4. Explanation of the product code



An example of nameplate is shown below, and the description of the designation is listed in the table:

Designation on nameplate	Description
IE+number	Efficiency level
3~Motor	Three phase motor
CL	Insulation class
IP	Protection class
EFF-	Efficiency value
V	Rated voltage
Hz	Frequency
r/min	Rated speed
kW	Output power
A	Rated current
COSφ	Power factor
No.	Serial number
kg	Weight
IEC60034	Standard



2.1. Product characteristics

Please refer to the table below for the standard data and options of the WE5 Series.

2.2. Ambient temperatures and high altitudes

Standard motors are designed for operation at a maximum ambient temperature of 40°C and at a maximum altitude of 1000

meters above sea level. If a motor is operated at higher ambient temperatures or altitude, it should be de-rated. Please refer to the below chart of Factor kHT for different site altitudes and/or coolant temperature.

Factor kHT for different site altitudes and/or coolant temperature

Site altitude above sea level	Site altitude above sea level coolant temperature					
	<30°C	30~40°C	45°C	50°C	55°C	60°C
1000m	1.07	1.00	0.96	0.92	0.87	0.82
1500m	1.04	0.97	0.93	0.89	0.84	0.79
2000m	1.00	0.94	0.90	0.86	0.82	0.77
2500m	0.96	0.90	0.86	0.83	0.78	0.74
3000m	0.92	0.86	0.82	0.79	0.75	0.70
3500m	0.88	0.82	0.79	0.75	0.71	0.67
4000m	0.82	0.77	0.74	0.71	0.67	0.63

2.3. Insulation

Wonder adopts class F insulation with temperature rise B, which is the common requirement among industry today and gives Wonder motors a 25°C safety margin.

The application of B-class temperature rise and F-class insulation in motors can enhance their reliability, safety, and voltage withstand capability. It helps prolong the motor's service life and ensures its normal operation.

Thermal class 130 (B)

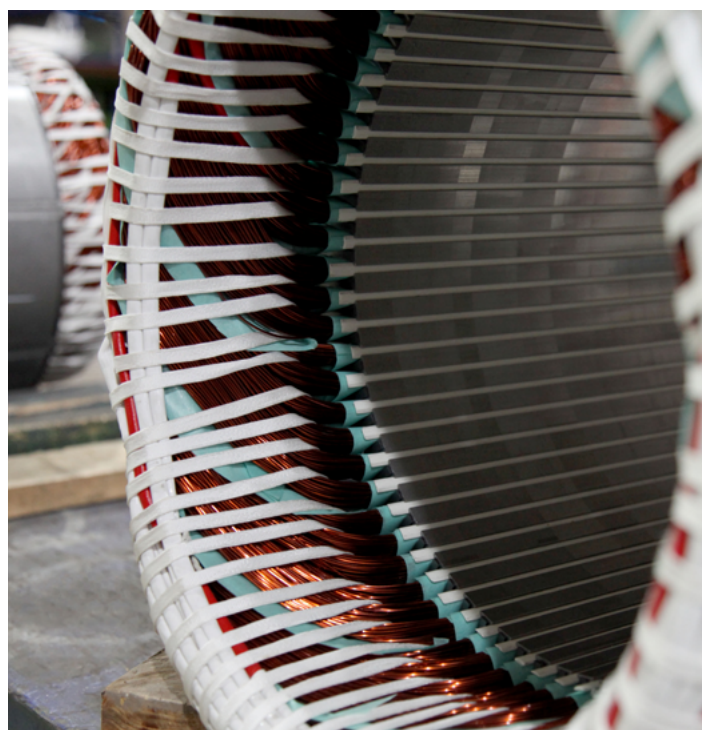
- Nominal ambient temperature 40°C
- Max permissible temperature rise 80K
- Hot spot temperature margin 10K

Thermal class 155 (F)

- Nominal ambient temperature 40°C
- Max permissible temperature rise 105K
- Hot spot temperature margin 10K

Thermal class 180 (H)

- Nominal ambient temperature 40°C
- Max permissible temperature rise 125K
- Hot spot temperature margin 10K



3. Motor structure conditions

3.1. Motor frame

From FS80 to FS132, the motor frame is made of aluminum. From FS160 to FS355, the motor frame is made of cast iron.



Aluminum frame



Cast iron frame

3.2. Terminal box

According to the IEC 60034 standard, the terminal box is installed on the top of the drive end. The terminal box is fixed to the motor frame using 4 cross screws or hex screws, all of which complying with the DIN standard. One of the screws is made of brass, while the other three are made of galvanized steel with a grade of 8.8.

An earth terminal must be placed inside the terminal box.

The terminal box can be rotated horizontally by 90°, allowing the outgoing wires to be drawn from various directions. The terminal box can be customized to be located on the left or right side of the frame.

The auxiliary terminal box is optional for motors above FS132.

The dimensions of the cable entry and of the terminal box are listed in the right table:

Dimensions of terminal box

Frame size	Terminal Box		
	Cable entry (mm)	Auxiliary cable entry (mm)	Overall dimensions (mm)
80	2-M25×1.5	--	112*99*57
90	2-M25×1.5	--	112*99*57
100	2-M25×1.5	--	112*99*57
112	2-M25×1.5	--	112*99*57
132	2-M32×1.5	--	142*130*63
160	2-M40×1.5	1-M16×1.5	203*163*86.5
180	2-M40×1.5	1-M16×1.5	203*163*86.5
200	2-M50×1.5	1-M16×1.5	253*203*98
225	2-M50×1.5	1-M16×1.5	253*203*98
250	2-M63×1.5	1-M20×1.5	351*211*157
280	2-M63×1.5	1-M20×1.5	351*211*157
315	2-M63×1.5	1-M20×1.5	425*258*208
355	2-M63×1.5	1-M20×1.5	465*300*230

3.3. Bearings

Wonder adopts single-row deep-groove ball bearings to standard motors. For some types of FS315-FS355 motors, NU roller bearings or angular contact ball bearings are recommended. The types are listed in the table below.

All motors are equipped as standard with an axially locked bearing. General at D-end.

Frame size	DE bearing		NDE bearing	
	2P	4P, 6P	2P	4P, 6P
80	6204 2Z/C3	6204 2Z/C3	6203 2Z/C3	6203 2Z/C3
90	6205 2Z/C3	6205 2Z/C3	6204 2Z/C3	6204 2Z/C3
100	6306 2Z/C3	6306 2Z/C3	6205 2Z/C3	6205 2Z/C3
112	6306 2Z/C3	6306 2Z/C3	6205 2Z/C3	6205 2Z/C3
132	6208 2Z/C3	6208 2Z/C3	6206 2Z/C3	6206 2Z/C3
160	6209 2Z/C3	6209 2Z/C3	6209 2Z/C3	6209 2Z/C3
180	6211 C3	6311 C3	6211 C3	6211 C3
200	6212 C3	6312 C3	6212 C3	6212 C3
225	6312 C3	6313 C3	6312 C3	6312 C3
250	6313 C3	6314 C3	6313 C3	6313 C3
280	6314 C3	6317 C3	6314 C3	6314 C3
315	6317 C3	NU319	6317 C3/7317B(V1)	6319 C3/7319B (V1)
355	6319 C3	NU322	6319 C3/7319B(V1)	6322 C3/7322B (V1)

3.4. Lubrication

For frame sizes below 180, the bearings are non-serviceable bearings which do not need regreasing. Please refer to the table below for bearing regreasing intervals in hours and grease volumes at the ambient temperature of 40 °C.

Frame size	Amount of grease (g)	2P		4P		6P	
		B3 B5 B35	V1	B3 B5 B35	V1	B3 B5 B35	V1
180	30	3400	1700	7000	3500	9000	4500
200	40	3000	1500	6400	3200	8400	4200
225	50	2400	1200	6200	3100	8200	4100
250	60	2200	1100	6000	3000	7600	3800
280	35	2200	1100	-	-	-	-
	70	-	-	4800	2400	6400	3200
315	35	1400	700	-	-	-	-
	90	-	-	4200	2100	6200	3100

Frame size	Amount of grease (g)	2P		4P		6P	
		B3 B5 B35	V1	B3 B5 B35	V1	B3 B5 B35	V1
355	35	1000	500	-	-	-	-
	120	-	-	3000	1500	5000	2500

3.5. Oil seals

The table below presents the standard types of bearing oil seals per motor size.

Frame size	B3		Other mounting arrangements	
	DE	NDE	DE	NDE
80	VA-020	--	TC20×30×7	--
90	VA-025	--	TC25×37×7	--
100	VA-030	--	TC30×42×7	--
112	VA-030	--	TC30×42×7	--
132	VA-040	--	TC40×58×7	--
160	VA-045	VA-045	TC45×60×7	VA-045
180	VA-055	VA-055	TC55×70×8	VA-055
200	VA-060	VA-060	TC60×80×12	VA-060
225-2P	VA-060	VA-060	TC60×80×12	VA-060
225-4P, 6P	VA-065	VA-060	TC65×90×12	VA-060
250-2P	VA-065	VA-065	TC65×90×12	VA-065
250-4P, 6P	VA-070	VA-065	TC70×90×12	VA-065
280-2P	VA-070	VA-070	TC70×90×12	VA-070
280-4P, 6P	VA-085	VA-070	TC85×100×12	VA-070
315-2P	VA-085	VA-085	TC85×110×10	VA-085
315-4P, 6P	VA-095	VA-095	TC95×120×10	VA-095
355-2P	VA-095	VA-095	TC95×120×10	VA-095
355-4P, 6P	VA-110	VA-110	TC110×135×10	VA-110

3.6. Drain holes

The standard design of Wonder motors includes the use of a drain hole to allow for the drainage of condensate water. The motor protection rating meets IP55.

The drain hole can be located either on the stator frame (for FS160 and above) or on the side of the end shield/flange (for FS80 to FS132), ensuring it is positioned at the lowest point of the motor.

3.7. Detachable feet

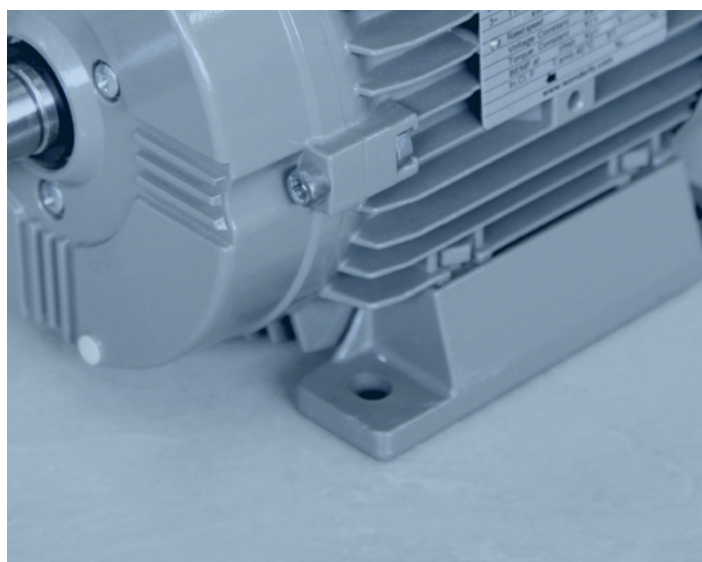
Wonder motors provide maximum flexibility to customers. All FS80-FS250 motors feature detachable feet that allow for flexible mounting and terminal box location. This design reduces customer modification time and can reduce motor stock.

3.8. Surface treatment

The motor parts are all painted, including the interior of the fan cover and the grooves of the B5/B14 flanges. The mounting surfaces of the shaft and flange are not painted but protected with anti-rust oil.

The painting process and thickness make the motor suitable for ISO12944 C2 classification.

The standard colors for Wonder motors are RAL9005 (black) and RAL5015 (blue).



3.9. Vibration

Wonder motor meets the requirements of class A vibration based on IEC60034-14 standard.

4. Technical specifications

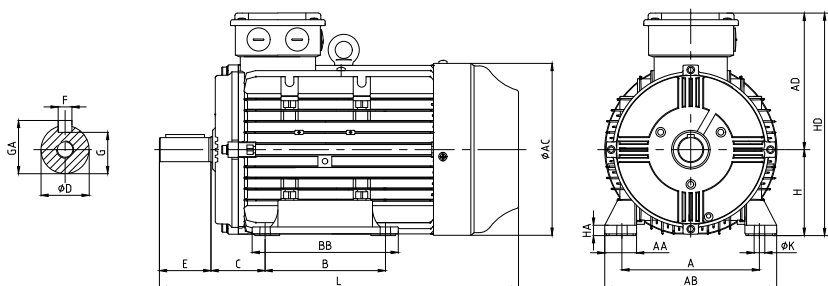
Rated output		Frame size	Full load current		Rated torque Mn (Nm)	Rated speed nN (r/min)	Power factor (cosφ)			Efficiency (η%)			Locked/ Rated current (I _L /I _n)	Locked/ Rated torque (T _L /T _n)	Break-down torque (T _B /T _n)	Moment of inertia J (kgm ²)	Weight IMB3 approx. (kg)	Noise (SPL) (dB(A))
			IN (Arms)				Full load	75% load	50% load	Full load	75% load	50% load						
kW	HP		380V	400V			Full load	75% load	50% load	Full load	75% load	50% load						
3000 r/min 2p 50 Hz																		
0.75	1	80M1	1.70	1.61	2.48	2880	0.78	0.73	0.62	86.3	86.5	84.6	8.5	3.6	3.9	0.002	13	62
1.1	1.5	80M2	2.38	2.27	3.64	2885	0.80	0.75	0.65	87.8	87.8	85.8	9.1	4.2	4.5	0.002	15	62
1.5	2	90S	2.92	2.77	4.93	2910	0.88	0.85	0.79	88.9	89.1	88.0	9.5	3.2	3.7	0.004	20	67
2.2	3	90L	4.22	4.01	7.23	2910	0.88	0.86	0.80	90.2	90.2	89.2	9.5	3.2	3.7	0.005	23	67
3	4	100L	5.76	5.47	9.82	2920	0.87	0.84	0.78	91.1	91.0	89.6	10.2	3.4	4.1	0.018	37	68
4	5.5	112M	7.61	7.23	13.1	2920	0.87	0.84	0.79	91.8	92.0	91.3	10.2	3.3	4.0	0.026	36	69
5.5	7.5	132S1	10.2	9.64	17.8	2935	0.89	0.87	0.82	92.6	92.8	92.1	10.2	3.0	3.6	0.031	53	71
7.5	10	132S2	13.8	13.1	24.4	2935	0.89	0.87	0.83	93.3	93.4	92.5	10.2	3.1	3.7	0.035	61	71
11	15	160M1	20.3	19.2	35.5	2955	0.88	0.83	0.72	94.0	93.7	92.2	9.3	2.3	3.3	0.067	125	69
15	20	160M2	27.5	26.1	48.4	2955	0.88	0.83	0.72	94.5	94.2	92.8	9.5	2.3	3.3	0.069	139	69
18.5	25	160L	33.7	32.0	59.6	2955	0.88	0.83	0.72	94.9	94.6	93.1	10.2	2.3	3.5	0.078	166	69
22	30	180M	40.0	38.0	70.9	2960	0.88	0.83	0.72	95.1	94.5	92.8	10.2	2.4	3.5	0.185	197	70
30	40	200L1	53.7	51.0	96.4	2970	0.89	0.84	0.73	95.5	95.4	94.7	10.2	2.4	3.2	0.208	295	73
37	50	200L2	66.0	62.7	118	2970	0.89	0.85	0.74	95.8	95.7	95.1	10.2	2.4	3.2	0.223	322	73
45	60	225M	80.1	76.1	144	2975	0.89	0.85	0.74	96.0	95.7	94.6	9.6	2.5	3.2	0.432	385	75
55	75	250M	97.7	92.8	176	2980	0.89	0.86	0.75	96.2	95.8	94.7	9.6	2.5	3.2	0.486	502	78
75	100	280S	133	127	241	2980	0.89	0.86	0.75	96.5	96.2	95.3	9.0	2.3	3.3	0.971	577	79
90	125	280M	160	152	289	2980	0.89	0.87	0.76	96.6	96.3	95.3	9.0	2.3	3.3	1.128	652	79
110	150	315S	194	185	353	2980	0.89	0.87	0.77	96.8	96.4	95.3	9.0	2.2	3.3	1.786	1143	80
132	175	315M	233	221	423	2980	0.89	0.87	0.77	96.9	96.6	95.6	9.0	2.2	3.3	1.975	1219	80
160	215	315L1	282	268	513	2980	0.89	0.87	0.77	97.0	96.6	95.6	9.0	2.2	3.3	2.223	1441	82
200	270	315L2	348	330	641	2980	0.90	0.88	0.78	97.2	96.9	95.8	9.0	2.2	3.3	2.495	1663	83
250	335	355M	435	413	801	2980	0.90	0.88	0.78	97.2	96.8	95.7	9.0	2.0	3.1	4.015	1321	83
315	420	355LA	548	520	1009	2980	0.90	0.88	0.79	97.2	96.8	95.7	9.0	2.0	3.1	4.287	1675	83
1500 r/min 4p 50 Hz																		
0.75	1	80M2	1.85	1.76	4.96	1440	0.7	0.65	0.55	88.2	87.8	84.9	8.5	3.0	3.6	0.008	18	56
1.1	1.5	90S	2.64	2.50	7.27	1450	0.71	0.65	0.55	89.5	88.9	86.4	8.5	3.1	3.7	0.009	25	59
1.5	2	90L	3.51	3.33	9.91	1455	0.72	0.66	0.56	90.4	89.8	87.2	9.0	3.3	3.9	0.011	27	59
2.2	3	100L1	4.82	4.58	14.5	1460	0.76	0.69	0.56	91.4	91.0	88.9	9.1	3.6	4.0	0.018	38	62
3	4	100L2	6.43	6.11	19.7	1460	0.77	0.70	0.58	92.1	91.8	90.0	9.5	3.7	4.1	0.021	42	62
4	5.5	112M	8.40	7.98	26.2	1465	0.78	0.73	0.63	92.8	93.0	92.1	9.5	2.3	3.1	0.036	45	64
5.5	7.5	132S	11.4	10.8	35.9	1470	0.79	0.74	0.63	93.4	93.0	91.2	9.6	2.6	3.2	0.054	72	66
7.5	10	132M	15.4	14.6	48.9	1470	0.79	0.74	0.63	94.0	93.9	92.6	9.6	2.6	3.2	0.065	87	66
11	15	160M	21.3	20.3	71.3	1475	0.83	0.77	0.68	94.6	94.8	94.2	9.5	2.6	3.4	0.112	155	60
15	20	160L	28.9	27.5	97.1	1475	0.83	0.78	0.68	95.1	95.3	94.9	9.5	2.6	3.4	0.116	179	60
18.5	25	180M	35.6	33.8	120	1480	0.83	0.77	0.68	95.3	95.1	94.0	9.5	2.6	3.5	0.199	225	65
22	30	180L	42.2	40.1	142	1480	0.83	0.78	0.67	95.5	95.4	94.6	9.5	2.6	3.5	0.248	265	65
30	40	200L	56.6	53.8	194	1480	0.84	0.79	0.69	95.9	95.8	95.0	9.0	2.1	2.8	0.425	304	68
37	50	225S	68.9	65.4	239	1485	0.85	0.80	0.71	96.1	95.8	95.0	9.0	2.4	3.1	0.814	364	68
45	60	225M	83.6	79.4	291	1485	0.85	0.80	0.71	96.3	96.0	95.1	9.0	2.4	3.1	0.897	406	68
55	75	250M	102	96.8	354	1485	0.85	0.80	0.71	96.5	96.3	95.5	9.0	2.3	2.8	1.109	500	69
75	100	280S	138	131	483	1490	0.86	0.83	0.76	96.7	96.6	96.0	9.0	2.3	2.8	2.23	645	70
90	125	280M	165	156	579	1490	0.86	0.84	0.77	96.9	96.8	96.2	9.0	2.3	2.8	2.54	729	70
110	150	315S	194	184	705	1490	0.89	0.86	0.81	97.0	96.6	95.4	8.5	2.2	2.8	4.35	1105	74
132	175	315M	233	221	846	1490	0.89	0.86	0.81	97.1	96.7	95.7	8.5	2.1	2.7	4.62	1263	74
160	215	315L1	282	267	1025	1490	0.89	0.87	0.82	97.2	96.8	95.7	8.5	2.1	2.7	5.16	1500	74
200	270	315L2	351	334	1282	1490	0.89	0.87	0.82	97.4	97.2	96.2	8.5	2.0	2.6	7.45	1620	74
250	335	355M	439	417	1602	1490	0.89	0.87	0.82	97.4	97.2	96.2	8.5	2.0	2.4	8.56	1831	80
315	420	355L	553	525	2018	1490	0.89	0.86	0.81	97.4	97.2	96.2	8.5	2.1	2.5	9.21	2325	80

Rated output		Frame size	Full load current		Rated torque Mn (Nm)	Rated speed nN (r/min)	Power factor (cosφ)			Efficiency (η%)			Locked/ Rated current (I _L /I _n)	Locked/ Rated torque (T _L /T _n)	Break- down torque (T _B /T _n)	Moment of inertia J (kgm ²)	Weight IMB3 approx. (kg)	Noise (SPL) (dB(A))
			IN (Arms)				Full load	75% load	50% load	Full load	75% load	50% load						
kW	HP			380V	400V													
1000 r/min 6p 50 Hz																		
0.75	1	90S	1.90	1.81	7.47	960	0.70	0.60	0.47	85.7	84.7	81.2	7.2	2.0	2.4	0.0086	34	57
1.1	1.5	90L	2.74	2.61	11.0	960	0.70	0.60	0.47	87.2	86.6	83.8	7.2	2.0	2.4	0.0112	42	57
1.5	2	100L	3.69	3.50	14.9	965	0.70	0.65	0.55	88.4	88.5	86.7	7.8	2.0	2.4	0.0196	45	59
2.2	3	112M	5.04	4.79	21.7	970	0.74	0.66	0.52	89.7	89.4	87.4	7.9	2.2	2.6	0.0286	59	60
3	4	132S	6.80	6.46	29.4	975	0.74	0.67	0.53	90.6	90.5	89.1	8.2	2.2	2.6	0.0624	79	62
4	5.5	132M1	8.99	8.54	39.2	975	0.74	0.67	0.53	91.4	91.4	90.3	8.2	2.2	2.6	0.0824	88	62
5.5	7.5	132M2	12.3	11.7	53.9	975	0.74	0.67	0.53	92.2	92.1	90.8	8.5	2.3	2.7	0.0948	97	62
7.5	10	160M	16.4	15.6	73.5	975	0.75	0.71	0.61	92.9	93.0	91.9	8.4	2.2	2.6	0.1542	152	56
11	15	160L	23.8	22.6	108	975	0.75	0.71	0.61	93.7	93.6	92.3	8.4	2.2	2.6	0.2175	178	56
15	20	180L	31.0	29.5	147	980	0.78	0.74	0.64	94.3	94.2	93.2	8.8	2.2	2.6	0.3962	255	59
18.5	25	200L1	37.2	35.3	181	980	0.80	0.74	0.63	94.6	94.5	93.5	8.8	2.2	2.6	0.5448	301	59
22	30	200L2	44.1	41.9	215	980	0.80	0.74	0.63	94.9	94.8	93.7	8.8	2.2	2.6	0.6218	321	59
30	40	225M	58.4	55.5	291	985	0.82	0.77	0.66	95.3	95.0	93.8	8.5	2.2	2.6	1.1241	394	62
37	50	250M	70.9	67.4	359	985	0.83	0.77	0.66	95.6	95.4	94.5	8.5	2.2	2.6	1.4765	544	62
45	60	280S	85.0	80.8	437	985	0.84	0.81	0.72	95.8	95.6	94.7	8.8	2.2	2.6	2.5140	628	66
55	75	280M	104	98.5	534	985	0.84	0.80	0.70	96.0	95.7	94.7	8.8	2.2	2.6	2.9887	674	66
75	100	315S	143	136	724	990	0.83	0.81	0.74	96.3	96.1	95.1	8.4	2.0	2.3	4.7512	1212	68
90	125	315M	171	163	869	990	0.83	0.81	0.74	96.5	96.3	95.3	8.4	2.0	2.3	5.3784	1242	69
110	150	315L1	209	199	1062	990	0.83	0.81	0.74	96.6	96.4	95.7	8.4	2.0	2.3	6.1251	1479	70
132	175	315L2	250	238	1274	990	0.83	0.81	0.74	96.8	96.6	95.7	8.4	2.0	2.3	7.9564	1652	70
160	215	355M1	296	281	1544	990	0.85	0.82	0.73	96.9	96.7	95.8	8.4	1.8	2.2	10.9574	2041	70
200	270	355M2	369	351	1920	995	0.85	0.82	0.74	97.0	96.8	96.0	8.4	1.8	2.2	13.1125	2094	70
250	335	355L	461	438	2400	995	0.85	0.83	0.75	97.0	96.8	96.1	8.4	1.8	2.2	16.3578	2357	75

5. Overall dimensions

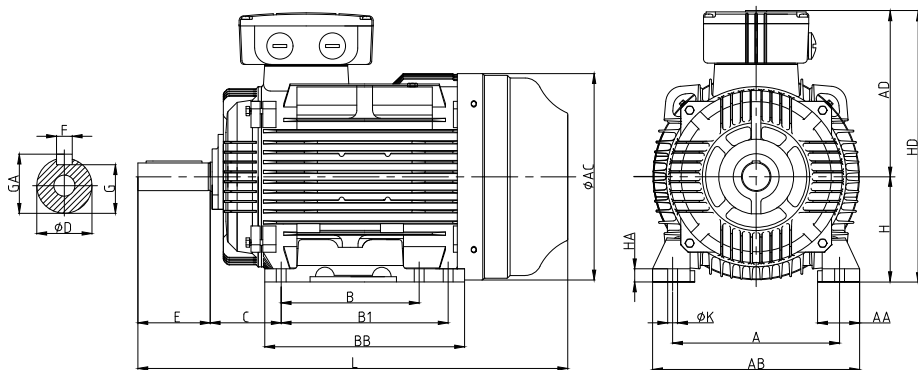
5.1. B3 Mounting and overall dimensions

FS80-FS132



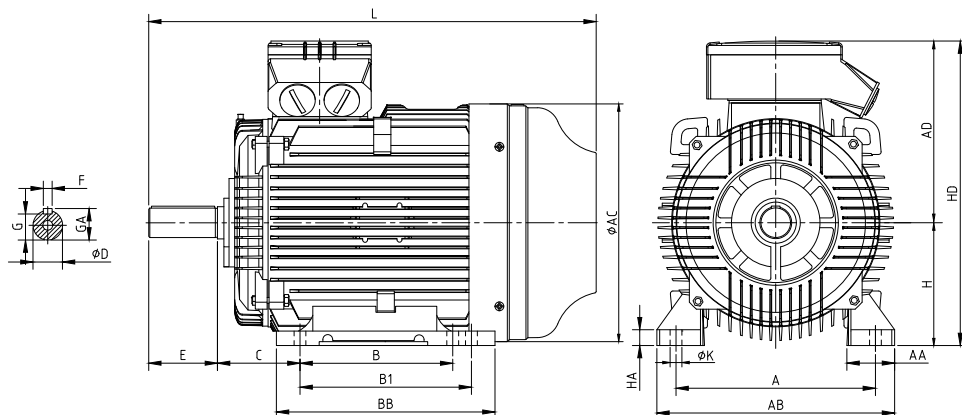
Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)								
		A	B	C	D	E	F	G	H	K		AA	AB	BB	GA	AC	AD	HA	HD	L
80M	2, 4	125	100	50	19	40	6	15.5	80	4-Φ10		32	154	125	21.5	157	123	10	203	331
90S	2	140	100	56	24	50	8	20	90	4-Φ10		37	180	128	27	175	146	10	236	324
	4, 6	140	100	56	24	50	8	20	90	4-Φ10		37	180	128	27	175	146	10	236	374
90L	2, 4, 6	140	125	56	24	50	8	20	90	4-Φ10		37	180	153	27	175	146	10	236	399
100L	2, 6	160	140	63	28	60	8	24	100	4-Φ12		37	200	170	31	199	159	12	259	418
100L1	4	160	140	63	28	60	8	24	100	4-Φ12		37	200	170	31	199	159	12	259	418
100L2	4	160	140	63	28	60	8	24	100	4-Φ12		37	200	170	31	199	159	12	259	458
112M	2, 4, 6	190	140	70	28	60	8	24	112	4-Φ12		47	230	170	31	222	169	12	281	411
132S	2, 6	216	140	89	38	80	10	33	132	4-Φ12		54	264	172	41	260	192	15	324	475
	4	216	140	89	38	80	10	33	132	4-Φ12		54	264	172	41	260	192	15	324	510
132M	4	216	178	89	38	80	10	33	132	4-Φ12		54	264	210	41	260	192	15	324	548
132M1	6	216	178	89	38	80	10	33	132	4-Φ12		54	264	210	41	260	192	15	324	513
132M2	6	216	178	89	38	80	10	33	132	4-Φ12		54	264	210	41	260	192	15	324	548

FS160-FS225



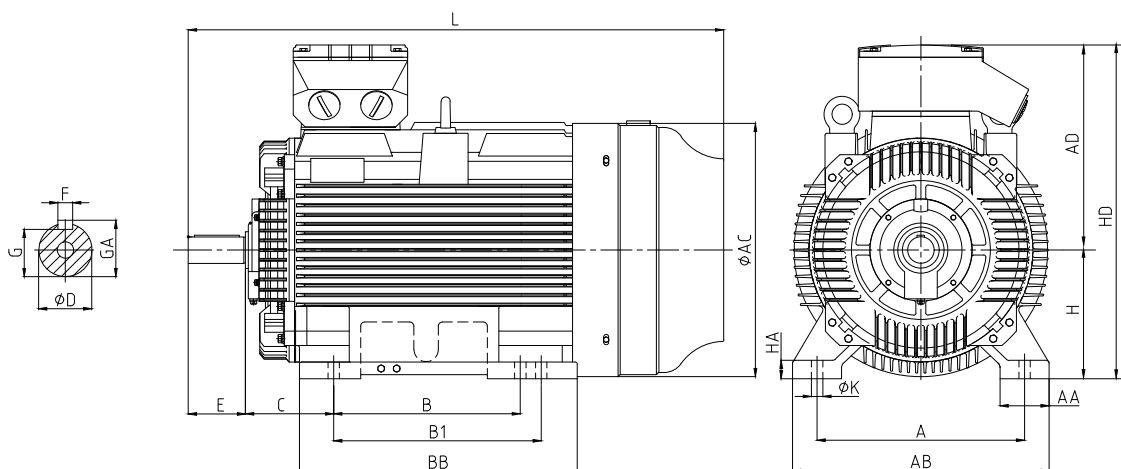
Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)								
		A	B	B1	C	D	E	F	G	H	K	GA	AA	AB	AC	AD	HA	HD	BB	L
160M1	2, 6	254	210	/	108	42	110	12	37	160	15	45	64	315	314	238	20	413	260	612
160M2	2	254	210	/	108	42	110	12	37	160	15	45	64	315	314	238	20	413	260	632
160M	4	254	210	254	108	42	110	12	37	160	15	45	64	315	314	238	20	413	304	656
160L	2	254	254	/	108	42	110	12	37	160	15	45	64	315	314	238	20	413	304	676
	4, 6	254	254	210	108	42	110	12	37	160	15	45	64	315	314	238	20	413	304	705
180M	2, 4	279	241	/	121	48	110	14	42.5	180	15	51.5	68	351	355	256	22	449	349	722
180L	4	279	279	/	121	48	110	14	42.5	180	15	51.5	68	351	355	256	22	449	349	817
	6	279	279	/	121	48	110	14	42.5	180	15	51.5	68	351	355	256	22	449	349	752
200L1	2	318	305	/	133	55	110	16	49	200	19	59	70	388	397	296	25	500	369	804
	6	318	305	/	133	55	110	16	49	200	19	59	70	388	397	296	25	500	369	774
200L2	2, 6	318	305	/	133	55	110	16	49	200	19	59	70	388	397	296	25	500	369	900
200L	4	318	305	/	133	55	110	16	49	200	19	59	70	388	397	296	25	500	369	900
225S	4	356	286	/	149	60	140	18	53	225	19	64	79	430	445	319	29	550	361	855
225M	2	356	311	/	149	55	110	16	49	225	19	59	79	430	445	319	29	550	386	816
	4, 6	356	311	/	149	60	140	18	53	225	19	64	79	430	445	319	29	550	386	880

FS250



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)									
		A	B	B1	C	D	E	F	G	H	K	GA	AA	AB	AC	AD	HA	HD	BB	L	
250S/M	2	406	311	349	168	60	140	18	53	250	24	64	97	484	484	370	32	624	445	911	
	4, 6	406	311	349	168	65	140	18	58	250	24	69	97	484	484	370	32	624	445	911	

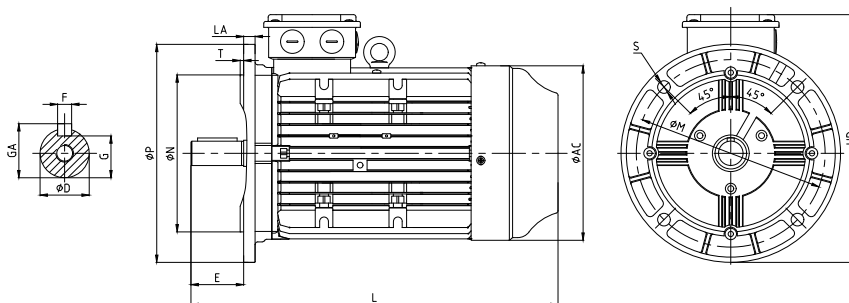
FS280-FS355



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)									
		A	B	B1	C	D	E	F	G	H	K	GA	AA	AB	AC	AD	HA	HD	BB	L	
280S	2	457	368	/	190	65	140	18	58	280	24	69	85	542	546	400	35	683	485	965	
	4, 6	457	368	/	190	75	140	20	67.5	280	24	79.5	85	542	546	400	35	683	485	965	
280M	2	457	419	/	190	65	140	18	58	280	24	69	85	542	546	400	35	683	536	1016	
	4, 6	457	419	/	190	75	140	20	67.5	280	24	79.5	85	542	546	400	35	683	536	1016	
315S	2	508	406	/	216	65	140	18	58	315	28	69	120	628	620	502	45	817	570	1201	
	4, 6	508	406	457	216	80	170	22	71	315	28	85	120	628	620	502	45	817	680	1341	
315M	2	508	457	508	216	65	140	18	58	315	28	69	120	628	620	502	45	817	680	1311	
	4, 6	508	457	508	216	80	170	22	71	315	28	85	120	628	620	502	45	817	680	1341	
315L	2	508	508	560	216	65	140	18	58	315	28	69	120	628	620	502	45	840	851	1511	
	4	508	508	560	216	80	170	22	71	315	28	85	120	628	620	502	45	840	851	1541	
315L1	6	508	457	508	216	80	170	22	71	315	28	85	120	628	620	502	45	817	680	1341	
315L2	6	508	508	560	216	80	170	22	71	315	28	85	120	628	620	502	45	840	851	1541	
355M	2	610	560	630	254	75	140	20	67.5	355	28	79.5	116	726	698	593	52	945	750	1501	
	4, 6	610	560	630	254	95	170	25	86	355	28	100	116	726	698	593	52	945	750	1531	
355L	2	610	630	710	254	75	140	20	67.5	355	28	79.5	116	726	698	593	52	945	1100	1801	
	4, 6	610	630	710	254	95	170	25	86	355	28	100	116	726	698	593	52	945	1100	1831	

5.2. B5 Mounting and overall dimensions

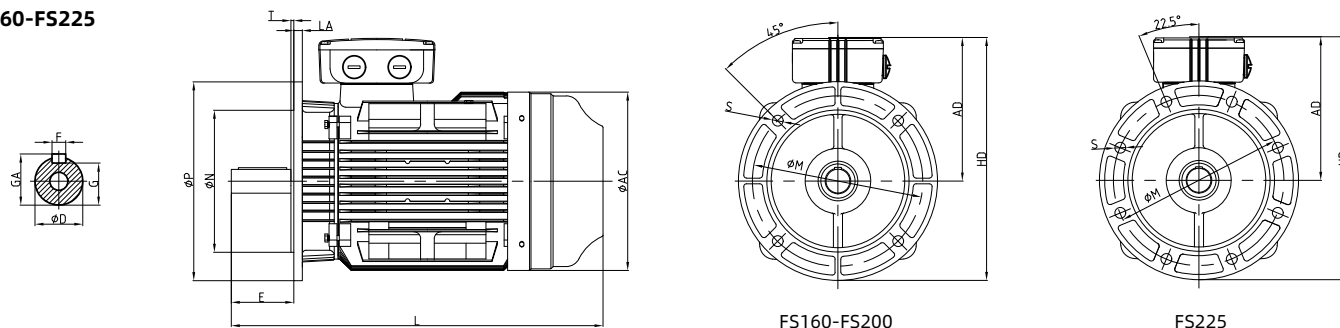
FS80-FS132



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)				
		D	E	F	G	M	N	P	R	S	T	GA	AC	HD	LA	L
80M	2, 4	19	40	6	15.5	165	130	200	0	4-Φ12	3.5	21.5	157	203	9.5	331
90S	2	24	50	8	20	165	130	200	0	4-Φ12	3.5	27	175	236	10	324
	4, 6	24	50	8	20	165	130	200	0	4-Φ12	3.5	27	175	236	10	374
90L	2, 4, 6	24	50	8	20	165	130	200	0	4-Φ12	3.5	27	175	236	10	399
100L	2, 6	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	199	259	12	418
100L1	4	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	199	259	12	418
100L2	4	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	199	259	12	458
112M	2, 4, 6	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	222	281	12	411
132S	2, 6	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	475
	4	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	510
132M	4	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	548
132M1	6	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	513
132M2	6	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	548

Note: R = Distance from flange to shaft shoulder.

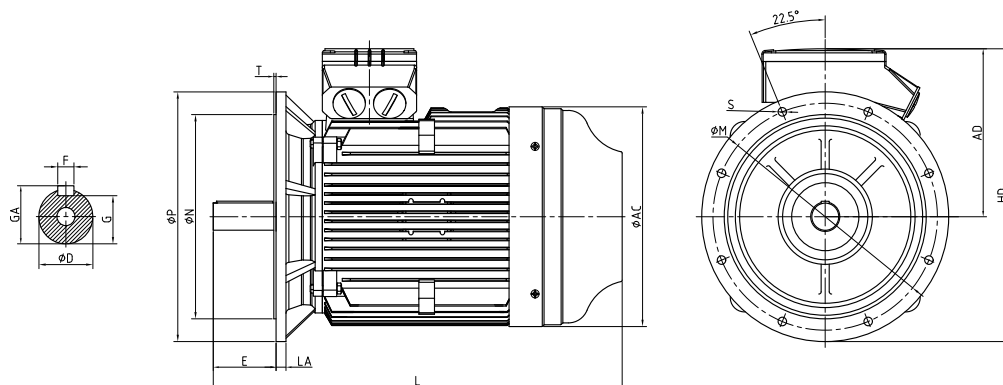
FS160-FS225



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)					
		D	E	F	G	M	N	P	R	S	T	GA	AC	AD	HD	LA	L
160M1	2, 6	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	612
160M2	2	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	632
160M	4	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	656
160L	2	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	676
	4, 6	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	705
180M	2	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	722
	4	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	752
180L	4	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	817
	6	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	752
200L1	2	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	804
	6	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	774
200L2	2, 6	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	900
200L	4	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	900
225S	4	60	140	18	53	400	350	450	0	8-Φ19	5	64	445	319	550	20	855
225M	2	55	110	16	49	400	350	450	0	8-Φ19	5	59	445	319	550	20	816
	4, 6	60	140	18	53	400	350	450	0	8-Φ19	5	64	445	319	550	20	880

Note: R = Distance from flange to shaft shoulder.

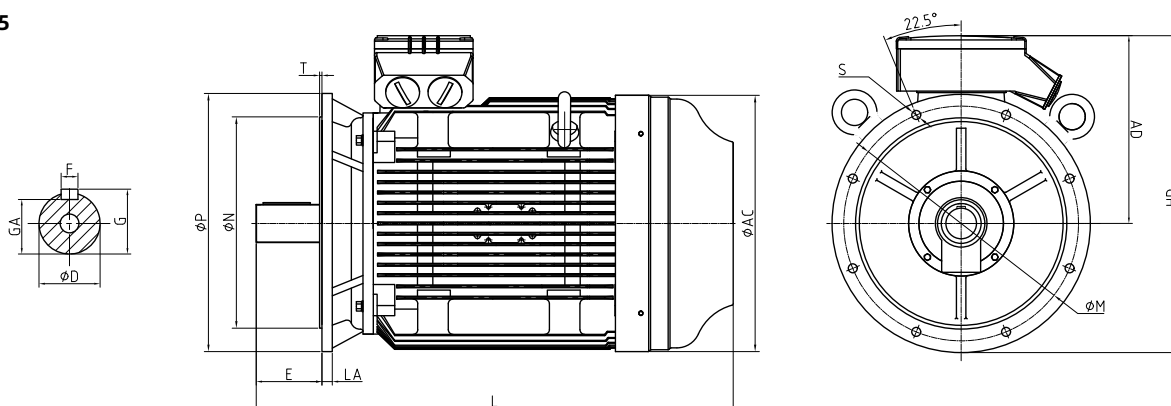
FS250



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)					
		D	E	F	G	M	N	P	R	S	T	GA	AC	AD	HD	LA	L
250S/M	2	60	140	18	53	500	450	550	0	8-Φ19	5	64	484	370	649	22	911
	4, 6	65	140	18	58	500	450	550	0	8-Φ19	5	69	484	370	649	22	911

Note: R = Distance from flange to shaft shoulder.

FS280-FS355

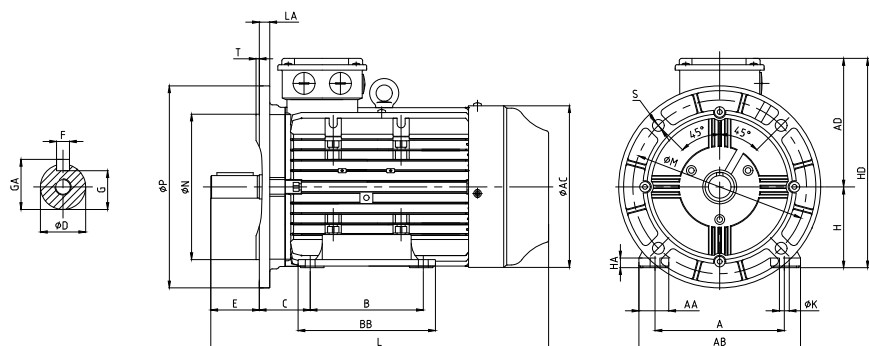


Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)					
		D	E	F	G	M	N	P	R	S	T	GA	AC	AD	HD	LA	L
280S	2	65	140	18	58	500	450	550	0	8-Φ19	5	69	546	400	678	22	965
	4, 6	75	140	20	67.5	500	450	550	0	8-Φ19	5	79.5	546	400	678	22	965
280M	2	65	140	18	58	500	450	550	0	8-Φ19	5	69	546	400	678	22	1016
	4, 6	75	140	20	67.5	500	450	550	0	8-Φ19	5	79.5	546	400	678	22	1016
315S	2	65	140	18	58	600	550	660	0	8-Φ24	6	69	620	502	823	22	1201
	4, 6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	823	22	1231
315M	2	65	140	18	58	600	550	660	0	8-Φ24	6	69	620	502	823	22	1311
	4, 6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	823	22	1341
315L	2	65	140	18	58	600	550	660	0	8-Φ24	6	69	620	502	855	22	1511
	4	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	855	22	1541
315L1	6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	832	22	1341
315L2	6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	855	22	1541
355M	2	75	140	20	67.5	740	680	800	0	8-Φ24	6	79.5	698	593	993	25	1501
	4, 6	95	170	25	86	740	680	800	0	8-Φ24	6	100	698	593	993	25	1531
355L	2	75	140	20	67.5	740	680	800	0	8-Φ24	6	79.5	698	593	993	25	1801
	4, 6	95	170	25	86	740	680	800	0	8-Φ24	6	100	698	593	993	25	1834

Note: R = Distance from flange to shaft shoulder.

5.3. B35 Mounting and overall dimensions

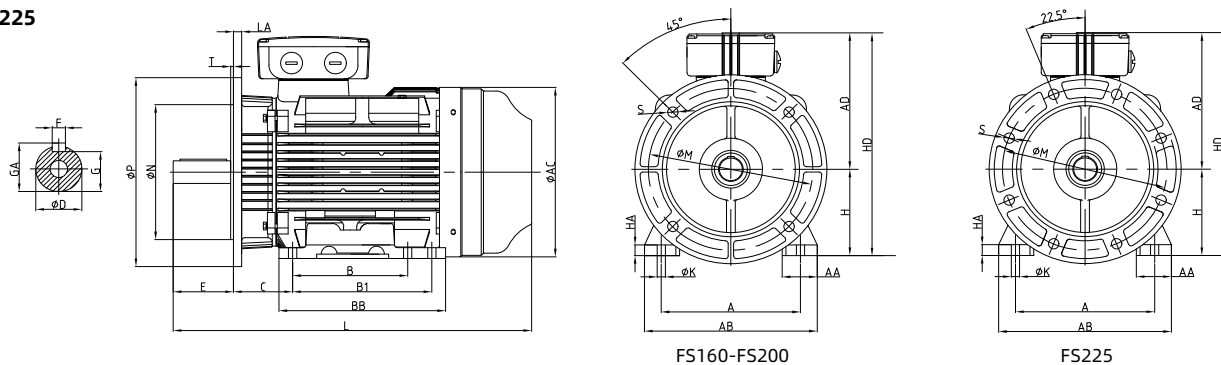
FS80-FS132



Frame size	Pole	Mounting dimensions (mm)															Overall dimensions (mm)										
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AA	AB	GA	AC	AD	HA	HD	BB	LA	L	
80M	2, 4	125	100	50	19	40	6	15.5	80	4-Φ10	165	130	200	0	4-Φ12	3.5	32	154	21.5	157	123	10	203	125	9.5	331	
90S	2	140	100	56	24	50	8	20	90	4-Φ10	165	130	200	0	4-Φ12	3.5	37	180	27	175	146	10	236	128	10	324	
	4, 6	140	100	56	24	50	8	20	90	4-Φ10	165	130	200	0	4-Φ12	3.5	37	180	27	175	146	10	236	128	10	374	
90L	2, 4, 6	140	125	56	24	50	8	20	90	4-Φ10	165	130	200	0	4-Φ12	3.5	37	180	27	175	146	10	236	153	10	399	
100L	2, 6	160	140	63	28	60	8	24	100	4-Φ12	215	180	250	0	4-Φ14.5	4	37	200	31	199	159	12	259	170	12	418	
100L1	4	160	140	63	28	60	8	24	100	4-Φ12	215	180	250	0	4-Φ14.5	4	37	200	31	199	159	12	259	170	12	418	
100L2	4	160	140	63	28	60	8	24	100	4-Φ12	215	180	250	0	4-Φ14.5	4	37	200	31	199	159	12	259	170	12	458	
112M	2, 4, 6	190	140	70	28	60	8	24	112	4-Φ12	215	180	250	0	4-Φ14.5	4	47	230	31	222	169	12	281	170	12	411	
132S	2, 6	216	140	89	38	80	10	33	132	4-Φ12	265	230	300	0	4-Φ14.5	4	54	264	41	260	192	15	324	172	14	475	
	4	216	140	89	38	80	10	33	132	4-Φ12	265	230	300	0	4-Φ14.5	4	54	264	41	260	192	15	324	172	14	510	
132M	4	216	178	89	38	80	10	33	132	4-Φ12	265	230	300	0	4-Φ14.5	4	54	264	41	260	192	15	324	210	14	548	
132M1	6	216	178	89	38	80	10	33	132	4-Φ12	265	230	300	0	4-Φ14.5	4	54	264	41	260	192	15	324	210	14	513	
132M2	6	216	178	89	38	80	10	33	132	4-Φ12	265	230	300	0	4-Φ14.5	4	54	264	41	260	192	15	324	210	14	548	

Note: R = Distance from flange to shaft shoulder.

FS160-FS225



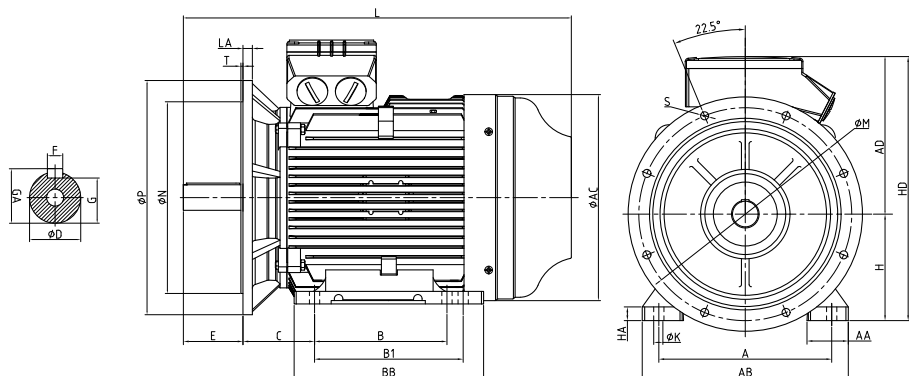
FS160-FS200

FS225

Frame size	Pole	Mounting dimensions (mm)																Overall dimensions (mm)									
		A	B	B1	C	D	E	F	G	H	K	M	N	P	R	S	T	GA	AA	AB	AC	AD	HA	HD	BB	L	
160M1	2, 6	254	210	/	108	42	110	12	37	160	15	300	250	350	0	4-Φ19	5	45	64	315	314	238	20	413	260	612	
160M2	2	254	210	/	108	42	110	12	37	160	15	300	250	350	0	4-Φ19	5	45	64	315	314	238	20	413	260	632	
160M	4	254	210	254	108	42	110	12	37	160	15	300	250	350	0	4-Φ19	5	45	64	315	314	238	20	413	304	656	
160L	2	254	254	/	108	42	110	12	37	160	15	300	250	350	0	4-Φ19	5	45	64	315	314	238	20	413	304	676	
	4, 6	254	254	210	108	42	110	12	37	160	15	300	250	350	0	4-Φ19	5	45	64	315	314	238	20	413	304	705	
180M	2	279	241	/	121	48	110	14	42.5	180	15	300	250	350	0	4-Φ19	5	51.5	68	351	355	256	22	449	349	722	
	4	279	241	/	121	48	110	14	42.5	180	15	300	250	350	0	4-Φ19	5	51.5	68	351	355	256	22	449	349	752	
180L	4	279	279	/	121	48	110	14	42.5	180	15	300	250	350	0	4-Φ19	5	51.5	68	351	355	256	22	449	349	817	
	6	279	279	/	121	48	110	14	42.5	180	15	300	250	350	0	4-Φ19	5	51.5	68	351	355	256	22	449	349	752	
200L1	2	318	305	/	133	55	110	16	49	200	19	350	300	400	0	4-Φ19	5	59	70	388	397	296	25	500	369	804	
	6	318	305	/	133	55	110	16	49	200	19	350	300	400	0	4-Φ19	5	59	70	388	397	296	25	500	369	774	
200L2	2, 6	318	305	/	133	55	110	16	49	200	19	350	300	400	0	4-Φ19	5	59	70	388	397	296	25	500	369	900	
200L	4	318	305	/	133	55	110	16	49	200	19	350	300	400	0	4-Φ19	5	59	70	388	397	296	25	500	369	900	
225S	4	356	286	/	149	60	140	18	53	225	19	400	350	450	0	8-Φ19	5	64	79	430	445	319	29	550	361	855	
225M	2	356	311	/	149	55	110	16	49	225	19	400	350	450	0	8-Φ19	5	59	79	430	445	319	29	550	386	816	
	4, 6	356	311	/	149	60	140	18	53	225	19	400	350	450	0	8-Φ19	5	64	79	430	445	319	29	550	386	880	

Note: R = Distance from flange to shaft shoulder.

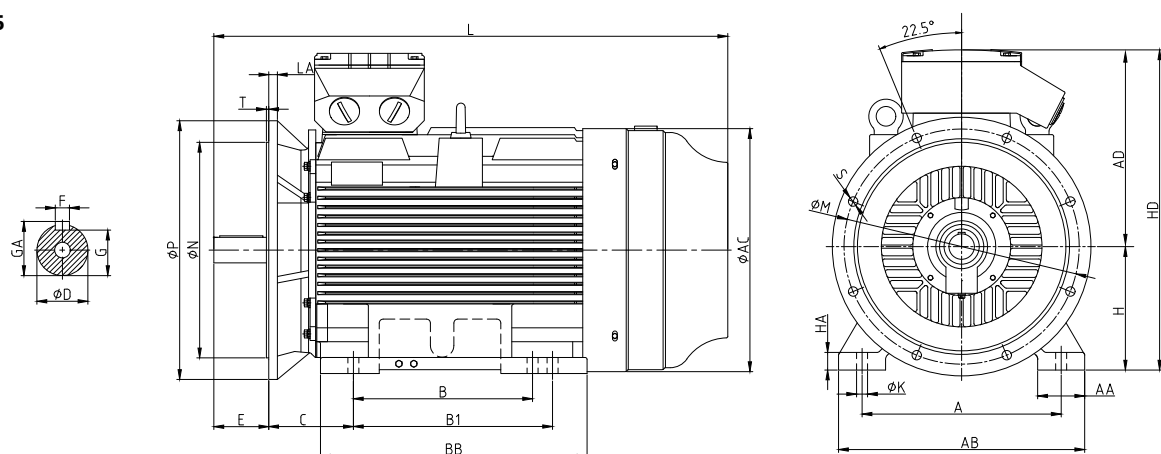
FS250



Frame size	Pole	Mounting dimensions (mm)																Overall dimensions (mm)									
		A	B	B1	C	D	E	F	G	H	K	M	N	P	R	S	T	GA	AA	AB	AC	AD	HA	HD	BB	L	
250S/M	2	406	311	349	168	60	140	18	53	250	24	500	450	550	0	8-Φ19	5	64	97	484	484	370	32	624	445	911	
	4, 6	406	311	349	168	65	140	18	58	250	24	500	450	550	0	8-Φ19	5	69	97	484	484	370	32	624	445	911	

Note: R = Distance from flange to shaft shoulder.

FS280-FS355

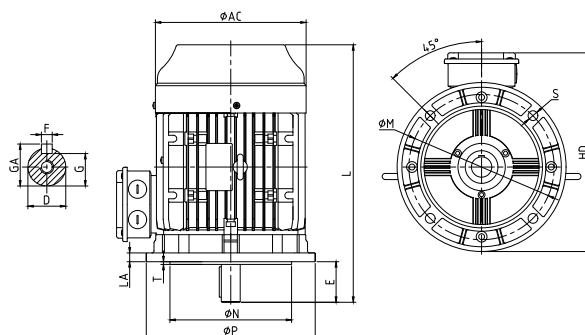


Frame size	Pole	Mounting dimensions (mm)																Overall dimensions (mm)									
		A	B	B1	C	D	E	F	G	H	K	M	N	P	R	S	T	GA	AA	AB	AC	AD	HA	HD	BB	L	
280S	2	457	368	/	190	65	140	18	58	280	24	500	450	550	0	8-Φ19	5	69	85	542	546	400	35	683	485	965	
	4, 6	457	368	/	190	75	140	20	67.5	280	24	500	450	550	0	8-Φ19	5	79.5	85	542	546	400	35	683	485	965	
280M	2	457	419	/	190	65	140	18	58	280	24	500	450	550	0	8-Φ19	5	69	85	542	546	400	35	683	536	1016	
	4, 6	457	419	/	190	75	140	20	67.5	280	24	500	450	550	0	8-Φ19	5	79.5	85	542	546	400	35	683	536	1016	
315S	2	508	406	/	216	65	140	18	58	315	28	600	550	660	0	8-Φ24	6	69	120	628	620	502	45	817	570	1201	
	4, 6	508	406	457	216	80	170	22	71	315	28	600	550	660	0	8-Φ24	6	85	120	628	620	502	45	817	680	1341	
315M	2	508	457	508	216	65	140	18	58	315	28	600	550	660	0	8-Φ24	6	69	120	628	620	502	45	817	680	1311	
	4, 6	508	457	508	216	80	170	22	71	315	28	600	550	660	0	8-Φ24	6	85	120	628	620	502	45	817	680	1341	
315L	2	508	508	560	216	65	140	18	58	315	28	600	550	660	0	8-Φ24	6	69	120	628	620	502	45	840	851	1511	
	4	508	508	560	216	80	170	22	71	315	28	600	550	660	0	8-Φ24	6	85	120	628	620	502	45	840	851	1541	
315L1	6	508	457	508	216	80	170	22	71	315	28	600	550	660	0	8-Φ24	6	85	120	628	620	502	45	817	680	1341	
315L2	6	508	508	560	216	80	170	22	71	315	28	600	550	660	0	8-Φ24	6	85	120	628	620	502	45	840	851	1541	
355M	2	610	560	630	254	75	140	20	67.5	355	28	740	680	800	0	8-Φ24	6	79.5	116	726	698	593	52	945	750	1501	
	4, 6	610	560	630	254	95	170	25	86	355	28	740	680	800	0	8-Φ24	6	100	116	726	698	593	52	945	750	1531	
355L	2	610	630	710	254	75	140	20	67.5	355	28	740	680	800	0	8-Φ24	6	79.5	116	726	698	593	52	945	1100	1801	
	4, 6	610	630	710	254	95	170	25	86	355	28	740	680	800	0	8-Φ24	6	100	116	726	698	593	52	945	1100	1831	

Note: R = Distance from flange to shaft shoulder.

5.4. V1 Mounting and overall dimensions

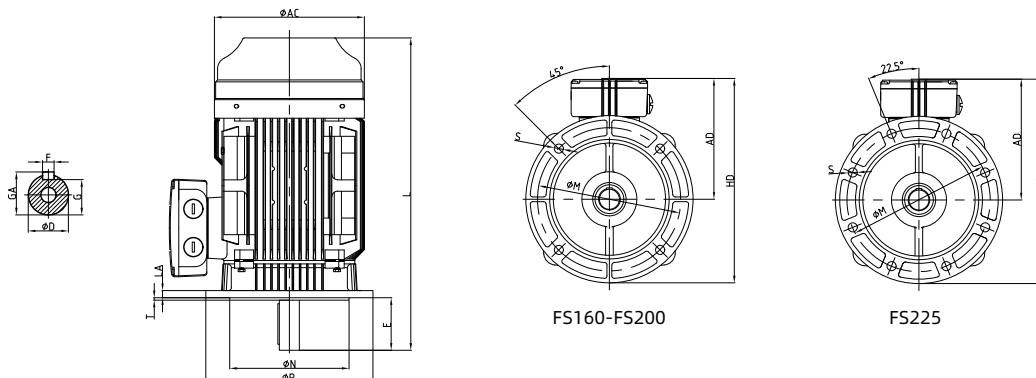
FS80-FS132



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)				
		D	E	F	G	M	N	P	R	S	T	GA	AC	HD	LA	L
80M	2, 4	19	40	6	15.5	165	130	200	0	4-Φ12	3.5	21.5	157	203	9.5	331
90S	2	24	50	8	20	165	130	200	0	4-Φ12	3.5	27	175	236	10	324
	4, 6	24	50	8	20	165	130	200	0	4-Φ12	3.5	27	175	236	10	374
90L	2, 4, 6	24	50	8	20	165	130	200	0	4-Φ12	3.5	27	175	236	10	399
100L	2, 6	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	199	259	12	418
100L1	4	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	199	259	12	418
100L2	4	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	199	259	12	458
112M	2, 4, 6	28	60	8	24	215	180	250	0	4-Φ14.5	4	31	222	281	12	411
132S	2, 6	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	475
	4	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	510
132M	4	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	548
132M1	6	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	513
132M2	6	38	80	10	33	265	230	300	0	4-Φ14.5	4	41	260	324	14	548

Note: R = Distance from flange to shaft shoulder.

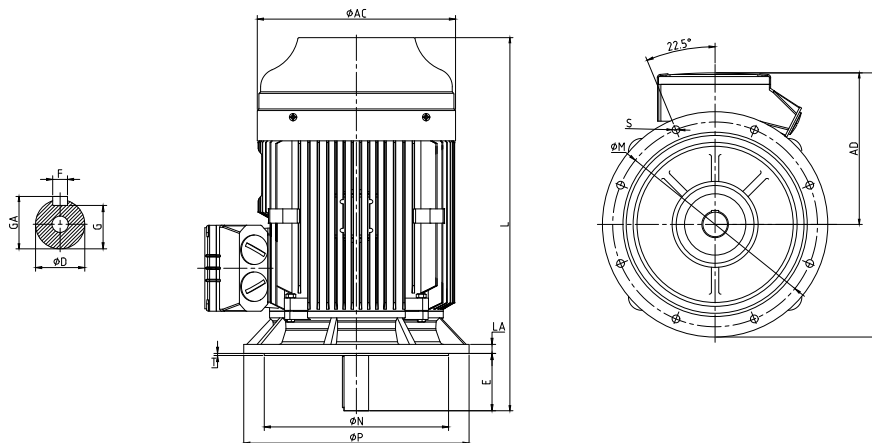
FS160-FS225



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)					
		D	E	F	G	M	N	P	R	S	T	GA	AC	AD	HD	LA	L
160M1	2, 6	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	612
160M2	2	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	632
160M	4	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	656
160L	2	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	676
	4, 6	42	110	12	37	300	250	350	0	4-Φ19	5	45	314	238	428	15	705
180M	2	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	722
	4	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	752
180L	4	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	817
	6	48	110	14	42.5	300	250	350	0	4-Φ19	5	51.5	355	256	444	15	752
200L1	2	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	804
	6	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	774
200L2	2, 6	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	900
200L	4	55	110	16	49	350	300	400	0	4-Φ19	5	59	397	296	500	17	900
225S	4	60	140	18	53	400	350	450	0	8-Φ19	5	64	445	319	550	20	855
225M	2	55	110	16	49	400	350	450	0	8-Φ19	5	59	445	319	550	20	816
	4, 6	60	140	18	53	400	350	450	0	8-Φ19	5	64	445	319	550	20	880

Note: R = Distance from flange to shaft shoulder.

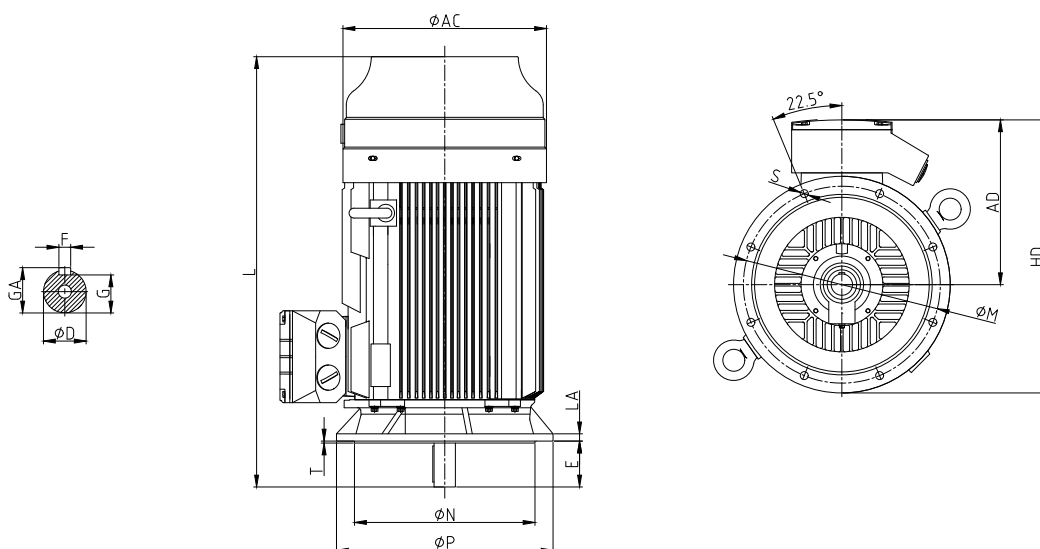
FS250



Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)					
		D	E	F	G	M	N	P	R	S	T	GA	AC	AD	HD	LA	L
250S/M	2	60	140	18	53	500	450	550	0	8-Φ19	5	64	484	370	649	22	911
	4, 6	65	140	18	58	500	450	550	0	8-Φ19	5	69	484	370	649	22	911

Note: R = Distance from flange to shaft shoulder.

FS280-FS355

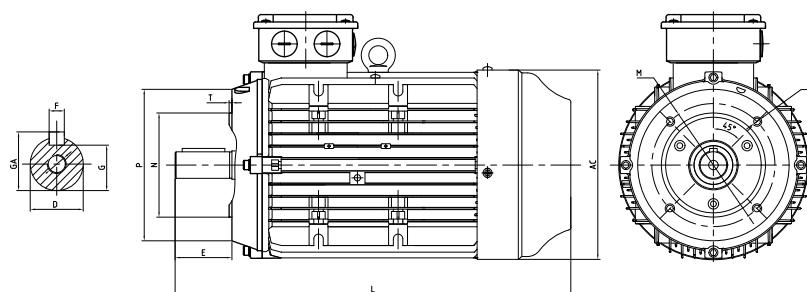


Frame size	Pole	Mounting dimensions (mm)										Overall dimensions (mm)					
		D	E	F	G	M	N	P	R	S	T	GA	AC	AD	HD	LA	L
280S	2	65	140	18	58	500	450	550	0	8-Φ19	5	69	546	400	678	22	965
	4, 6	75	140	20	67.5	500	450	550	0	8-Φ19	5	79.5	546	400	678	22	965
280M	2	65	140	18	58	500	450	550	0	8-Φ19	5	69	546	400	678	22	1016
	4, 6	75	140	20	67.5	500	450	550	0	8-Φ19	5	79.5	546	400	678	22	1016
315S	2	65	140	18	58	600	550	660	0	8-Φ24	6	69	620	502	823	22	1201
	4, 6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	823	22	1231
315M	2	65	140	18	58	600	550	660	0	8-Φ24	6	69	620	502	823	22	1311
	4, 6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	823	22	1341
315L	2	65	140	18	58	600	550	660	0	8-Φ24	6	69	620	502	855	22	1511
	4	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	855	22	1541
315L1	6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	832	22	1341
315L2	6	80	170	22	71	600	550	660	0	8-Φ24	6	85	620	502	855	22	1541
355M	2	75	140	20	67.5	740	680	800	0	8-Φ24	6	79.5	698	593	993	25	1501
	4, 6	95	170	25	86	740	680	800	0	8-Φ24	6	100	698	593	993	25	1531
355L	2	75	140	20	67.5	740	680	800	0	8-Φ24	6	79.5	698	593	993	25	1801
	4, 6	95	170	25	86	740	680	800	0	8-Φ24	6	100	698	593	993	25	1834

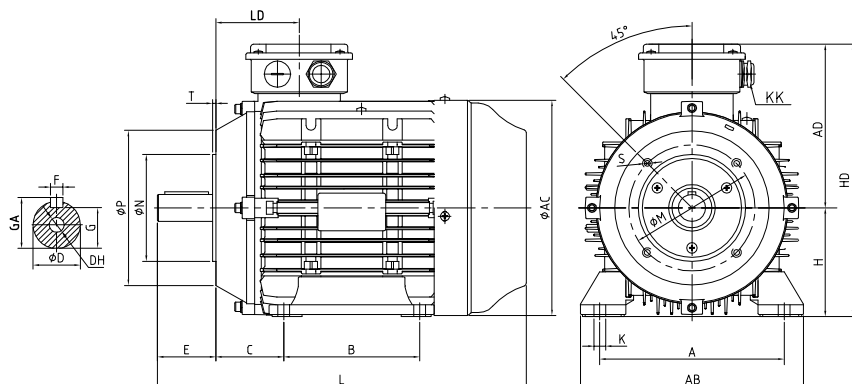
Note: R = Distance from flange to shaft shoulder.

5.5. B14, V18 and B34 Mounting and overall dimensions

B14, V18 FS80-FS132



B34 FS80-FS132



Frame size	Pole	Mounting dimensions (mm)																	Overall dimensions (mm)									
		A	B	C	D	DH	E	F	G	H	K	KK	M	N	P	R	S	T	AB	AC	AD	HD	GA	LA	LD	HA	L	
80M1	2	125	100	50	19	M6×16	40	6	15.5	80	4-Φ10	M20×1.5	100	80	120	0	4-M6	3	154	157	123	203	21.5	9.5	76	10	296	
80M2	2, 4	125	100	50	19	M6×16	40	6	15.5	80	4-Φ10	M20×1.5	100	80	120	0	4-M6	3	154	157	123	203	21.5	9.5	76	10	331	
90S	2	140	100	56	24	M8×20	50	8	20	90	4-Φ10	M25×1.5	115	95	140	0	4-M8	3	180	175	146	236	27	10	87	10	324	
	4, 6	140	100	56	24	M8×20	50	8	20	90	4-Φ10	M25×1.5	115	95	140	0	4-M8	3	180	175	146	236	27	10	87	10	374	
90L	2, 4, 6	140	125	56	24	M8×20	50	8	24	90	4-Φ10	M25×1.5	115	95	140	0	4-M8	3	180	175	146	236	27	10	87	10	399	
100L	2, 6	160	140	63	28	M10×22	60	8	24	100	4-Φ12	M25×1.5	130	110	160	0	4-M8	3	200	199	159	259	31	12	78	12	418	
100L1	4	160	140	63	28	M10×22	60	8	24	100	4-Φ12	M25×1.5	130	110	160	0	4-M8	3	200	199	159	259	31	12	78	12	418	
100L2	4	160	140	63	28	M10×22	60	8	24	100	4-Φ12	M25×1.5	130	110	160	0	4-M8	3	200	199	159	259	31	12	78	12	458	
112M	2, 4, 6	190	140	70	28	M10×22	60	8	24	112	4-Φ12	M25×1.5	130	110	160	0	4-M8	3	230	222	169	281	31	12	86	12	411	
132S	2, 6	216	140	89	38	M12×28	80	10	33	132	4-Φ12	M32×1.5	165	130	200	0	4-M10	3	264	260	192	324	41	14	129	15	475	
	4	216	140	89	38	M12×28	80	10	33	132	4-Φ12	M32×1.5	165	130	200	0	4-M10	3	264	260	192	324	41	14	129	15	510	
132M	4	216	178	89	38	M12×28	80	10	33	132	4-Φ12	M32×1.5	165	130	200	0	4-M10	3	264	260	192	324	41	14	129	15	548	
132M1	6	216	178	89	38	M12×28	80	10	33	132	4-Φ12	M32×1.5	165	130	200	0	4-M10	3	264	260	192	324	41	14	129	15	513	
132M2	6	216	178	89	38	M12×28	80	10	33	132	4-Φ12	M32×1.5	165	130	200	0	4-M10	3	264	260	192	324	41	14	129	15	548	

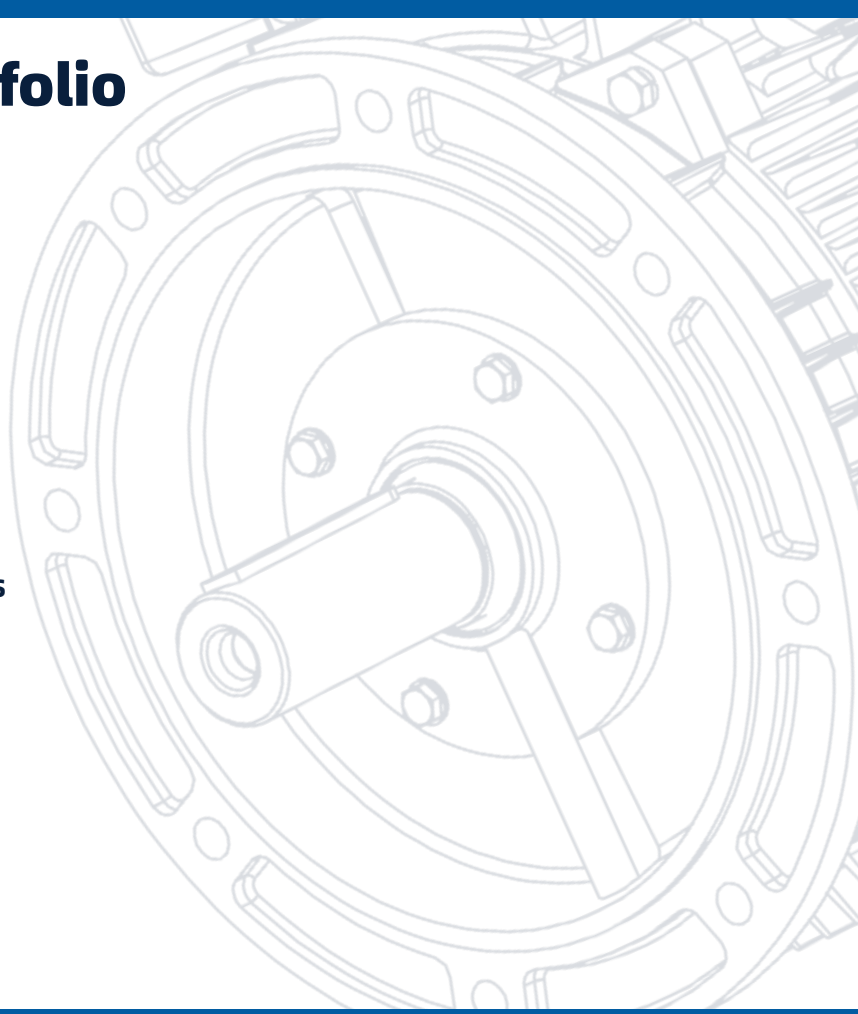
Note: R = Distance from flange to shaft shoulder.







Wonder Product Portfolio



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- Permanent magnet synchronous motors
- Synchronous Reluctance motors
- Single phase motors

NEMA Standard Motors

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- PM motors for air compressor
- High temperature smoke extraction motors
- Oil-immersed motors
- Motors for stone machinery
- Variable pitch motors
- Motors for secondary water supply system
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Customized Motors

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