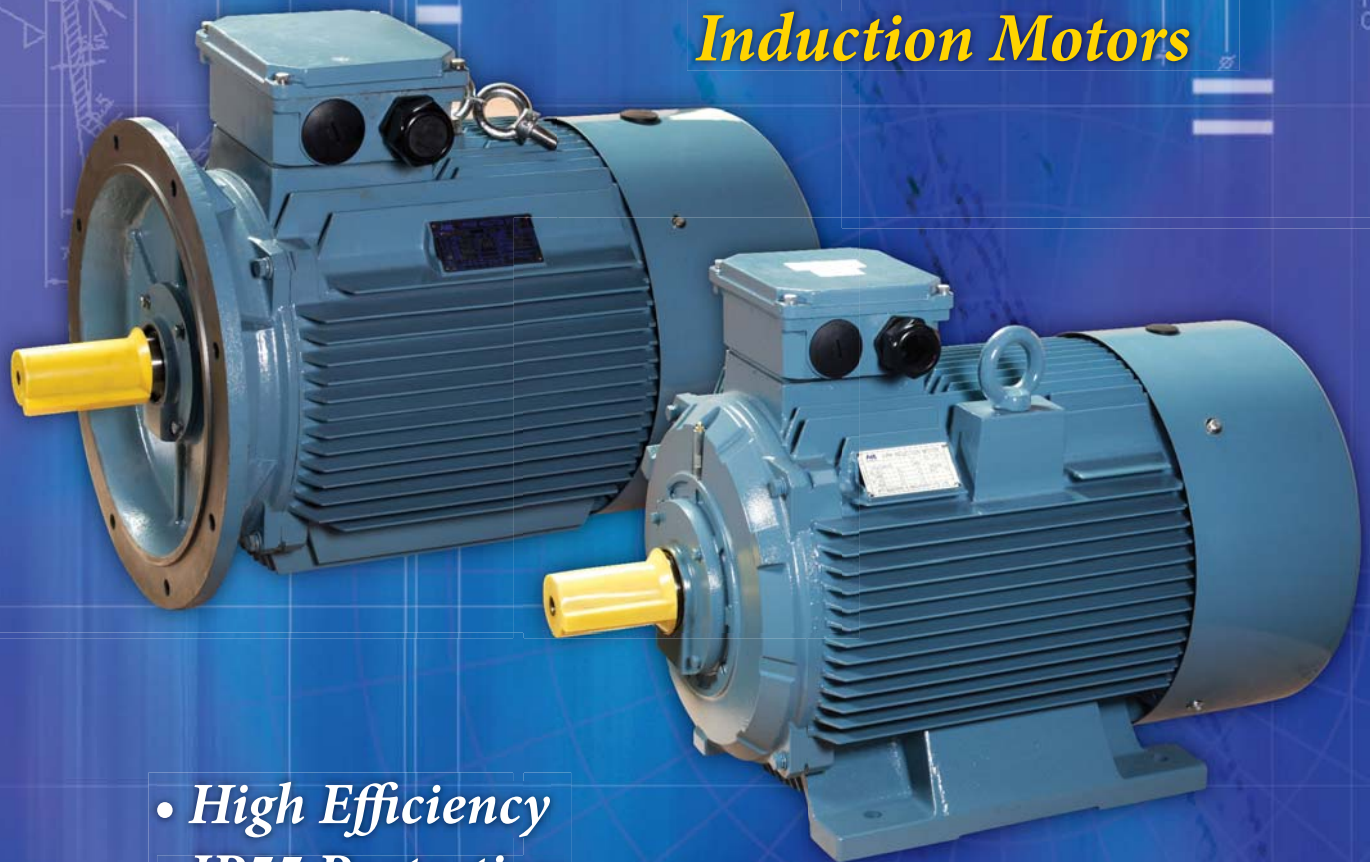




WY SERIES

*Three-Phase TEFC
Cast-Iron
Induction Motors*



- *High Efficiency*
- *IP55 Protection*
- *IEC Dimension*
- *Low Noise*

This catalogue detail the complete range of the WY series motors. Standard WY motors are three phase TEFC cast-iron induction motor with IEC frame size from 63 to 355. WY motors are supplied suitable for continuous S1 duty, which is means that WY motors can operate under constant load , lasting long enough to allow the machine to reach thermal equilibrium. Please contact with ATT when the motor is to operate under any other type of duty.

All WY motors are supplied with Class F insulation and checking permissible limits of temperature rise against that of class B to improve the insulation reliability. Additional protection is provided by installation of thermister in all unit from WY 160 frame upward, to continuously protect the winding.

These motors are built to comply the requirements for European “CE” marking and the International Electrotechnical Commission – IEC 60034 (included 60034-1, 60034-5, 60034-7, 60034-8, 60034-9, 60034-11, 60034-12 and 60034-14). Compliance with IEC60034 means that many standard from other countries based on IEC60034 can normally be complied with.

Ordering Information

- ⊗ Application
- ⊗ Motor type
- ⊗ Voltage, frequency, output and number of poles
- ⊗ Across-the-line or reduced-voltage starting
- ⊗ Direct drive, or V-belt drive (Sheave diameter, width and weight, type of V-belts)
- ⊗ With or without slide rails or soleplates
- ⊗ Type, size and diameter of power lead
- ⊗ Indoor or outdoor use
- ⊗ Environmental conditions (Ambient temperature, explosive or corrosive gas, if applicable)
- ⊗ Load inertia GD2
- ⊗ Load characteristics





All motors are available in B3, B35 and V1 configuration. They can also be mount B5, but for 315 and 355 frame motors, it is recommend to be mount only B3, B35 or V1. Please be mention that motors to be mounted with the shaft vertically must be provided with a suitable cover to ensure foreign bodies are prevented from entering motor. Table below listed the possibility mounting arrangement of ATT motors. For mounting arrangement outside the list please contact ATT.

Table 3 – Mounting arrangement

Foot Mount					
B3	V5	V6	B6	B7	B8
Flange		Flange and Feet			
B5	V1	V3	B35	V15	V36

Protection Devices

In order to protect the winding of a three phase induction motor against thermal overloads, one of the following devices can be provided:

PTC temperature sensor:

Or call “thermister”. Thermister are special solid temperature sensors that behave like temperature sensitive resistor. It can be widely use at those work site which need overheat protection. When the sensor are fixed in those facilities that need overheat protection, they are able to keep the facilities from accidents and dangerous causes by overheating. The sensor use in ATT motors are 3 cores heat variable resistor. They are small size, endurance strength, good stability and excellent sensitiveness.

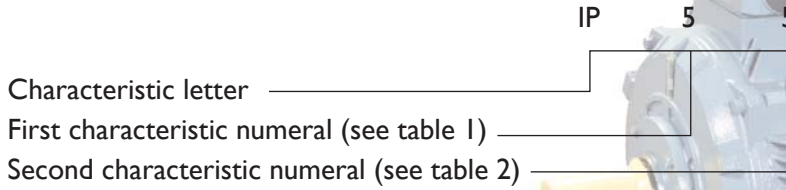
Space heater:

The insulating resistance of electrical facilities are liable to reduce and get electric faults due to the dampness, dew or high humidity and low temperature. The space heater are specially designed and produced according to the improvement of the above circumstances. Heat the motor against dampness before starting it in order to keep it in good working condition. Space heater can be fitted as an option to all motors and recommended for IP56 and IP66.

The standard of protection for all ATT motors are follow the international standard IEC60034-5. This standard specify the Degrees of Protection of electric equipment, commonly known as the “IP” code.

Please refer to the guide below to selected the most suitable protection:

Example of designation:



First characteristic numeral:

The first characteristic numeral indicates the degree of protection provided by the enclosure to persons and to the parts of the machine inside the enclosure.

Table 1 - Degrees of protection indicates by the first characteristic numeral

First characteristic numeral	Degree of protection	
	Brief description	Definition
5	Dust-protection machine	part inside the enclosure. Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the machine.
6	Dust-tight machine	Ingress of dust totally prevent

Second characteristic numeral:

The second characteristic numeral indicates the degree of protection provided by the enclosure with respect to harmful effects due to ingress of water.

Table 2 - Degrees of protection indicates by the second characteristic numeral

Second characteristic numeral	Degree of protection	
	Brief description	Definition
5	Machine protected against water jet	Water projected by a nozzle against the machine from any direction shall have no harmful effect
6	Machine protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the machine in harmful quantities

Standard level of enclosure protection for all ATT motor is IP55 as a minimum. Higher levels of protection are available as request.

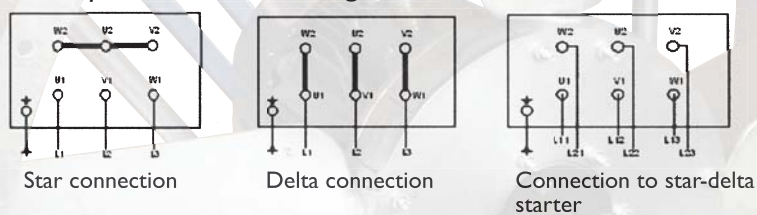


Standard terminal connection for 2.2kW and below is 220-240 volt delta / 380-415 volt star. These motor are normally connected in star connection, thus they are designed for 415 volt Direct On Line (D.O.L) starting. They are also suitable for operation with 240 volt three phase variable frequency drives, when connected in the delta connection.

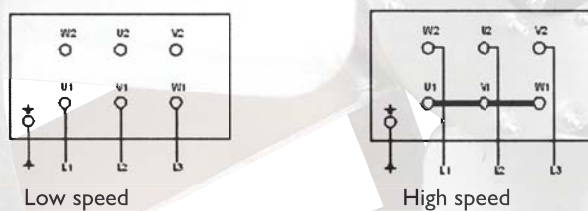
For motors 3.0kW and above, their standard terminal connection is 380-415 volt delta / 660-720 volt star. These motors are designed for 415 volt Direct On Line (D.O.L) starting. They are also suitable for operation with 415V three phase variable frequency drives. These motors are also can be operated for 720V Direct On line starting, when connected in the star configuration.

CONNECTION DIAGRAMS

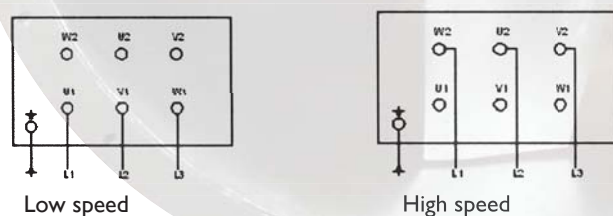
Three phase motors with cage rotor



Multi-speed motors in Dahlander connection (Tapped Winding)



Multi-speed motors with 2 separate windings.



Vibration

ATT WY motors' rotor have been dynamically balanced and fall within the limit of maximum vibration magnitude set out in IEC 60034-14. Care must be taken to ensure that pulleys or couplings used with motors must also be appropriately balanced with haft feather key.

Limit of maximum vibration magnitude in displacement, velocity and acceleration(r.m.s.) for shaft height:

Vibration grade	Shaft height, mm	56 ≤ H ≤ 132			132 ≤ H ≤ 280			H > 280		
		Disp. μm	mm/s	Acc. m/s ²	Disp. μm	Vel. mm/s	Acc. m/s ²	Disp. μm	Vel. mm/s	Acc. m/s ²
A	Mounting									
	Free suspension	25	1.6	2.5	35	2.2	3.5	45	2.8	4.4
B	Free suspension	11	0.7	1.1	18	1.1	1.7	29	1.8	2.8
	Rigid mounting				14	0.9	1.4	24	1.5	2.4

Voltage/Frequency

Standard voltage and frequency for WY motor are 220-240V / 380-415V at 50Hz for 2.2kW and below, 380-415V / 660-720V at 50Hz for 3kW and above, and other voltages such as 220-380V, 440-480V at 60Hz. Voltage tolerance is $\pm 5\%$, and frequency tolerance is 1%. Voltage beyond these limits will cause a high winding temperature rise.

Insulation

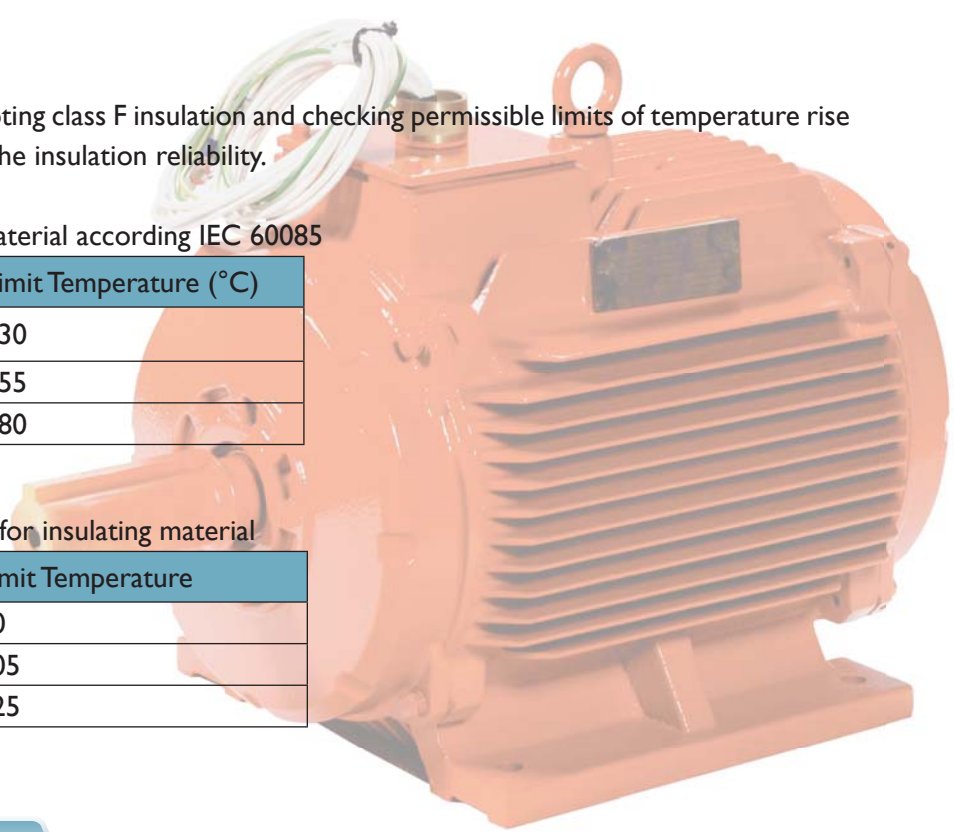
Standard MS series motor are adopting class F insulation and checking permissible limits of temperature rise against that of class B to improve the insulation reliability.

Limit temperature for insulating material according IEC 60085

Insulation Class	Limit Temperature (°C)
B	130
F	155
H	180

Max. permissible temperature rise for insulating material

Insulation Class	Limit Temperature
B	80
F	105
H	125



Direction of Rotation

The motors can be operate in both direction of rotation. For clockwise rotation, viewed from the drive end, standard WY motor terminal marking coincide with the sequence of the phase line conductors. The direction of rotation can be reversed by interchanging any two phase of conductors.

Terminal box location (viewed from drive end)"	Sequential connection of L1,L2 and L3"	Direction of rotation
Right	U I V I W I	Clockwise
	V I U I W I	Counter-clockwise
Left	V I U I W I	Clockwise
	U I V I W I	Counter-clockwise



Motor types WY, Class F insulation, 380/415V - 50Hz(2P/3000rpm, 4P/1500rpm, 6P/1000rpm, 8P/750rpm, 10P/600rpm)

Rated Power		Pole	Frame Size	Rated Speed (RPM)	Current I _{FL}			Power Factor COSφ	Efficiency %	I _{LR} / I _{FL}	Rated Torque (T _{FL}) Nm	T _{LR} / T _{FL}	T _M / T _{FL}	Moment of Inertia J Kg·m ²	Weight Kg
KW	HP				380V (A)	400V (A)	415V (A)								
0.12	0.16	4	63-1	1320	0.44	0.42	0.40	0.72	57.0	4.4	0.9	2.1	2.2	0.00009	11
0.18	0.24	2	63-1	2730	0.53	0.50	0.48	0.80	65.0	5.5	0.66	2.2	2.2	0.00030	10
		4	63-2	1320	0.62	0.59	0.57	0.73	60.0	4.4	1.41	2.1	2.2	0.00010	11
		6	71-1	865	0.74	0.70	0.67	0.66	56.0	4.0	2.00	1.9	2.0	0.00110	13
		8	80-1	645	0.88	0.84	0.81	0.61	51.0	3.3	2.66	1.8	2.0	0.00180	16
0.25	0.33	2	63-2	2730	0.69	0.66	0.64	0.81	68.0	5.5	0.90	2.2	2.2	0.00040	11
		4	71-1	1350	0.79	0.75	0.72	0.74	65.0	5.2	1.77	2.1	2.2	0.00110	14
		6	71-2	865	0.95	0.90	0.87	0.68	59.0	4.0	2.78	1.9	2.0	0.00120	14
		8	80-2	645	1.15	1.10	1.06	0.61	54.0	3.3	3.70	1.8	2.0	0.00210	17
0.37	0.5	2	71-1	2750	0.99	0.94	0.91	0.81	70.0	6.1	1.28	2.2	2.2	0.00050	14
		4	71-2	1340	1.12	1.06	1.02	0.75	67.0	5.2	2.64	2.1	2.2	0.00120	14
		6	80-1	885	1.30	1.23	1.19	0.70	62.0	4.7	3.99	1.9	2.0	0.00160	15
		8	90S	670	1.49	1.41	1.36	0.60	62.0	4.0	5.27	1.9	2.3	0.00300	24
0.55	0.75	2	71-2	2790	1.40	1.33	1.28	0.82	73.0	6.1	1.86	2.2	2.3	0.00063	14
		4	80-1	1390	1.57	1.49	1.44	0.75	71.0	5.2	3.78	2.4	2.3	0.00130	15
		6	80-2	885	1.79	1.70	1.63	0.72	65.0	4.7	5.93	1.9	2.1	0.00200	16
		8	90L	670	2.17	2.07	1.99	0.60	63.0	4.0	7.84	2.0	2.3	0.00400	26
0.75	1	2	80-1	2845	1.83	1.74	1.68	0.83	75.0	6.1	2.52	2.2	2.3	0.00083	15
		4	80-2	1380	2.05	1.95	1.88	0.76	73.0	6.0	5.19	2.3	2.3	0.00150	16
		6	90S	915	2.29	2.18	2.10	0.72	69.0	5.5	7.83	2.0	2.1	0.00300	23
		8	100L-1	680	2.40	2.28	2.19	0.67	71.0	4.0	10.46	2.0	2.2	0.00630	33
1.1	1.5	2	80-2	2840	2.58	2.45	2.37	0.84	77.0	7.0	3.70	2.2	2.3	0.00100	16
		4	90S	1390	2.89	2.74	2.64	0.77	75.0	6.0	7.56	2.3	2.3	0.00200	22
		6	90L	915	3.18	3.02	2.91	0.73	72.0	5.5	11.48	2.0	2.1	0.00400	25
		8	100L-2	680	3.32	3.15	3.04	0.69	73.0	5.0	15.22	1.8	2.2	0.00970	34
1.5	2	2	90S	2840	3.43	3.26	3.14	0.84	79.0	7.0	5.04	2.2	2.3	0.00120	22
		4	90L	1390	3.72	3.54	3.41	0.79	78.0	6.0	10.30	2.3	2.3	0.00300	27
		6	100L	910	4.00	3.80	3.66	0.75	76.0	5.5	15.57	2.0	2.1	0.00690	33
		8	112M	700	4.40	4.18	4.03	0.69	75.0	5.0	19.62	2.0	2.5	0.01200	39
2.2	3	2	90L	2840	4.85	4.61	4.45	0.85	81.0	7.0	7.40	2.2	2.3	0.00140	25
		4	100L-1	1410	5.16	4.90	4.72	0.81	80.0	7.0	14.85	2.3	2.3	0.00540	34
		6	112M	940	5.57	5.29	5.10	0.76	79.0	6.5	22.47	2.0	2.1	0.00710	39
		8	132S	710	6.04	5.73	5.53	0.71	78.0	6.0	29.50	1.8	2.5	0.02900	62
3	4	2	100L	2830	6.31	6.00	5.78	0.87	83.0	7.5	10.00	2.2	2.3	0.00290	33
		4	100L-2	1410	6.81	6.47	6.24	0.82	82.0	7.0	20.25	2.3	2.3	0.00670	35
		6	132S	960	7.40	7.03	6.78	0.76	81.0	6.5	29.84	2.1	2.1	0.02740	56
		8	132M	710	7.90	7.51	7.24	0.73	79.0	6.0	40.30	1.8	2.4	0.03800	66
3.7	5	2	112M	2880	7.59	7.21	6.95	0.88	84.2	7.5	12.27	2.2	2.3	0.00500	40
		4	112M	1430	8.18	7.77	7.49	0.82	83.8	7.0	24.71	2.3	2.3	0.00910	44
		6	132M-1	960	9.05	8.60	8.29	0.76	81.7	6.5	36.80	2.3	2.8	0.03430	71
		8	160M-1	720	9.53	9.05	8.72	0.73	80.8	6.0	49.07	1.9	2.2	0.06490	94
4	5.5	2	112M	2890	8.12	7.72	7.44	0.88	85.0	7.5	13.26	2.2	2.3	0.00500	40
		4	112M	1440	8.80	8.40	8.10	0.82	84.0	7.0	26.71	2.3	2.3	0.00910	44
		6	132M-1	960	9.75	9.26	8.93	0.76	82.0	6.5	39.79	2.1	2.1	0.03430	71
		8	160M-1	720	10.30	9.76	9.41	0.73	81.0	6.0	53.1	1.9	2.0	0.06490	94
5.5	7.5	2	132S-1	2910	11.00	10.50	10.10	0.88	86.0	7.5	18.1	2.2	2.3	0.01040	59
		4	132S	1445	11.90	11.30	10.90	0.83	85.0	7.0	36.4	2.3	2.3	0.02050	61
		6	132M-2	960	12.90	12.30	11.80	0.77	84.0	6.5	54.7	2.1	2.1	0.04310	75
		8	160M-2	720	13.60	12.90	12.50	0.74	83.0	6.0	72.9	2.0	2.0	0.08210	106
7.5	10	2	132S-2	2905	14.90	14.10	13.60	0.88	87.0	7.5	24.7	2.2	2.3	0.01210	62
		4	132M	1445	15.60	14.80	14.30	0.84	87.0	7.0	49.6	2.3	2.3	0.02960	73
		6	160M	970	17.20	16.30	15.80	0.77	86.0	6.5	73.8	2.0	2.1	0.08000	108
		8	160L	720	17.80	16.90	16.30	0.75	85.5	6.0	99.5	2.0	2.0	0.11410	128
11	15	2	160M-1	2935	21.50	20.40	19.70	0.89	88	7.5	36.10	2.2	2.3	0.0370	107
		4	160M	1460	22.50	21.40	20.60	0.84	88	7.0	72.70	2.2	2.3	0.0724	113
		6	160L	970	24.50	23.30	22.40	0.78	87.5	6.5	109.40	2.0	2.1	0.0108	131
		8	180L	730	25.10	23.90	23.00	0.76	87.5	6.6	147.50	2.2	2.8	0.1870	170
15	20	2	160M-2	2935	29.00	27.50	26.50	0.89	89	7.5	49.23	2.2	2.3	0.0432	117
		4	160L	1460	30.30	28.80	27.80	0.85	89	7.5	99.14	2.2	2.3	0.0929	133
		6	180L	970	31.60	30.00	28.90	0.81	89	7.0	149.20	2.0	2.1	0.1670	171
		8	200L	730	34.10	32.40	31.20	0.76	88	6.6	201.14	2.2	2.8	0.3250	220

Data are subjected to revisions without any prior notice.

PERFORMANCE DATA

Motor types WY, Class F insulation, 380/415V - 50Hz(2P/3000rpm, 4P/1500rpm, 6P/1000rpm, 8P/750rpm, 10P/600rpm)

Rated Power		Pole	Frame Size	Rated Speed (RPM)	Current I _{FL}			Power Factor COSφ	Efficiency %	I _{LR} / I _{FL}	Rated Torque (T _{FL}) Nm	T _{LR} / T _{FL}	T _M / T _{FL}	Moment of Inertia J Kg ^m	Weight Kg
KW	HP				380V (A)	400V (A)	415V (A)								
18.5	25	2	160L	2935	35.10	33.30	32.10	0.90	90	7.5	60.71	2.2	2.3	0.0525	134
		4	180M	1470	36.10	34.30	33.10	0.86	90.5	7.5	122.27	2.2	2.3	0.1350	167
		6	200L-1	975	38.60	36.60	35.30	0.81	90	7.0	184.00	2.1	2.1	0.3020	216
		8	225S	730	41.10	39.00	37.60	0.76	90	6.6	248.74	2.2	3.0	0.4810	270
22	30	2	180M	2940	41.50	39.40	38.00	0.90	90	7.5	72.20	2.0	2.3	0.0710	169
		4	180L	1470	42.70	40.60	39.10	0.86	91	7.5	145.40	2.2	2.3	0.1360	181
		6	200L-2	975	44.70	42.50	41.00	0.83	90	7.0	218.83	2.1	2.1	0.3420	225
		8	225M	730	47.40	45.00	43.40	0.78	90.5	6.6	295.00	2.0	2.9	0.5310	295
30	40	2	200L-1	2945	56.00	53.20	51.30	0.90	91.2	7.5	98.45	2.0	2.3	0.1190	220
		4	200L	1470	57.60	54.70	52.80	0.86	92	7.2	198.27	2.2	2.3	0.2450	232
		6	225M	980	59.30	56.30	54.30	0.84	91.5	7.0	298.40	2.0	2.1	0.5250	286
		8	250M	730	63.40	60.20	58.10	0.79	91	6.6	402.27	1.9	2.8	0.8090	370
37	50	2	200L-2	2945	68.60	65.20	62.90	0.90	92	7.5	121.43	2.0	2.3	0.1330	239
		4	225S	1475	69.90	66.40	64.00	0.87	92.5	7.2	244.54	2.2	2.3	0.3900	287
		6	250M	980	71.10	67.50	65.10	0.86	92	7.0	368.00	2.1	2.1	0.8070	380
		8	280S	735	77.80	73.90	71.20	0.79	91.5	6.6	496.14	2.0	2.4	1.3810	475
45	60	2	225M	2950	83.00	78.90	76.00	0.90	92.3	7.5	147.68	2.0	2.3	0.2210	297
		4	225M	1475	84.70	80.40	77.50	0.87	92.8	7.2	297.41	2.2	2.3	0.4500	322
		6	280S	980	85.90	81.60	78.70	0.86	92.5	7.0	447.60	2.1	2.7	1.3340	465
		8	280M	735	94.10	89.40	86.10	0.79	92	6.6	603.41	2.0	2.4	1.7210	555
		10	315S	590	100.00	95.00	91.00	0.75	91.5	6.2	728.31	1.5	2.0	5.1000	890
55	75	2	250M	2965	101.00	95.90	92.40	0.90	92.5	7.5	180.50	2.0	2.3	0.3050	380
		4	250M	1475	103.00	98.10	94.60	0.87	93	7.2	363.50	2.2	2.3	0.6400	385
		6	280M	980	105.00	99.50	95.90	0.86	92.8	7.0	547.10	2.1	2.7	1.5980	540
		8	315S	735	111.00	106.00	102.00	0.81	92.8	6.6	737.50	1.8	2.2	4.5900	905
		10	315M	590	121.00	115.00	111.00	0.75	92	6.2	890.16	1.5	2.0	6.1000	965
75	100	2	280S	2965	137.00	130.00	125.00	0.90	93	7.5	246.14	2.0	2.3	0.5840	510
		4	280S	1485	140.00	133.00	128.00	0.87	93.8	7.2	495.68	2.2	2.3	1.0450	510
		6	315S	935	142.00	135.00	130.00	0.86	93.5	7.0	746.00	2.0	2.4	3.9400	861
		8	315M	735	151.00	144.00	139.00	0.81	93	6.6	1005.68	1.8	2.2	5.3600	981
		10	315L-1	590	162.00	154.00	148.00	0.76	92.5	6.2	1213.86	1.5	2.0	6.9000	1040
90	125	2	280M	2965	160.00	152.00	147.00	0.91	93.8	7.5	295.36	2.0	2.3	0.6650	540
		4	280M	1485	167.00	159.00	153.00	0.87	94.2	7.2	594.82	2.2	2.3	1.3960	600
		6	315M	935	170.00	161.00	155.00	0.86	93.8	7.0	895.20	2.0	2.4	4.5800	940
		8	315L-1	735	178.00	169.00	163.00	0.82	93.8	6.6	1206.80	1.8	2.3	6.1100	1070
		10	315L-2	590	191.00	181.00	175.00	0.77	93	6.2	1456.63	1.5	2.0	7.2000	1130
110	150	2	315S	2975	195.00	186.00	179.00	0.91	94	7.1	361.00	1.8	2.2	1.1300	920
		4	315S	1485	201.00	191.00	184.00	0.88	94.5	6.9	717.00	2.1	2.2	2.9800	930
		6	315L-1	935	207.00	196.00	189.00	0.86	94	6.7	1094.10	2.0	2.4	5.2300	1110
		8	315L-2	735	217.00	206.00	199.00	0.82	94	6.4	1475.00	1.9	2.3	6.5500	1160
		10	355M-1	590	230.00	218.00	211.00	0.78	93.2	6.0	1780.32	1.3	2.0	9.4000	1820
132	180	2	315M	2975	233.00	222.00	214.00	0.91	94.5	7.1	433.20	1.8	2.2	1.7500	970
		4	315M	1485	240.00	228.00	220.00	0.88	94.8	6.9	872.40	2.1	2.2	3.4800	1010
		6	315L-2	935	245.00	232.00	224.00	0.87	94.2	6.7	1312.96	2.0	2.3	5.5400	1175
		8	355M-1	745	261.00	248.00	239.00	0.82	93.7	6.4	1691.90	1.8	2.0	12.9000	1800
		10	355M-2	590	275.00	261.00	252.00	0.78	93.5	6.0	2136.39	1.3	2.0	9.5000	1910
160	215	2	315L-1	2975	279.00	265.00	256.00	0.92	94.6	7.1	525.10	1.8	2.2	2.0100	1080
		4	315L-1	1485	288.00	273.00	264.00	0.89	94.9	6.9	1057.45	2.1	2.2	3.9600	1070
		6	355M-1	990	292.00	278.00	268.00	0.88	94.5	6.7	1543.27	1.9	2.0	9.2700	1690
		8	355M-2	745	315.00	299.00	288.00	0.82	94.2	6.4	2050.79	1.8	2.0	14.3000	1890
		10	355L	590	333.00	317.00	305.00	0.78	93.5	6.0	2589.29	1.3	2.0	9.6000	1993
200	270	2	315L-2	2975	348.00	331.00	319.00	0.92	94.8	7.1	656.36	1.8	2.2	2.2700	1170
		4	315L-2	1485	359.00	341.00	329.00	0.89	95	6.9	1321.82	2.1	2.2	4.4700	1170
		6	355M-2	990	365.00	346.00	334.00	0.88	94.7	6.7	1929.09	1.9	2.0	10.8000	1870
		8	355L	745	387.00	368.00	355.00	0.83	94.5	6.4	2563.49	1.8	2.0	15.9000	2040
250	340	2	355M-2	2975	433.00	412.00	397.00	0.92	95.3	7.1	802.44	1.6	2.2	3.2960	1690
		4	355M	1490	443.00	421.00	406.00	0.90	95.3	6.9	1602.18	2.1	2.2	7.6400	1720
		6	355L	990	455.00	432.00	416.00	0.88	94.9	6.7	2411.36	1.9	2.0	11.8000	1980
315	430	2	355L-2	2990	544.00	517.00	498.00	0.92	95.6	7.1	1006.00	1.6	2.2	3.9500	1850
		4	355L	1490	556.00	528.00	509.00	0.90	95.6	6.9	2018.75	2.1	2.2	8.7020	1950

Data are subjected to revisions without any prior notice.

PERFORMANCE DATA 60HZ_I



Motor types WY, Class F insulation, 60Hz (For 2P/3600rpm, 4P/1800rpm, 6P/1200rpm, 8P/900rpm & 10P/720rpm)

Rated Power		Pole	Frame Size	Rated Speed (RPM)	Current					Power Factor COS ϕ	Efficiency %	ILR / IFL	Rated Torque (TFL) Nm	TLR / TFL	TM / TFL	Moment of Inertia J Kg m^2	Weight Kg
KW	HP				220V (A)	380V (A)	440V (A)	460V (A)	480V (A)								
0.12	0.16	4	63-1	1580	0.76	0.44	0.38	0.36	0.35	0.72	57.0	4.4	0.73	2.1	2.2	0.00009	11
0.18	0.24	2	63-1	3280	0.90	0.52	0.45	0.43	0.41	0.80	65.0	5.5	0.52	2.2	2.2	0.00030	10
		4	63-2	1580	1.08	0.63	0.54	0.52	0.50	0.73	60.0	4.4	1.09	2.1	2.2	0.00010	11
		6	71-1	1040	1.28	0.74	0.64	0.61	0.59	0.66	56.0	4.0	1.65	1.9	2.0	0.00110	13
		8	80-1	770	1.52	0.88	0.76	0.73	0.70	0.61	51.0	3.3	2.23	1.8	2.0	0.00180	16
0.25	0.33	2	63-2	3280	1.20	0.69	0.60	0.57	0.55	0.81	68.0	5.5	0.73	2.2	2.2	0.00040	11
		4	71-1	1620	1.36	0.79	0.68	0.65	0.62	0.74	65.0	5.2	1.47	2.1	2.2	0.00110	14
		6	71-2	1040	1.64	0.95	0.82	0.78	0.75	0.68	59.0	4.0	2.30	1.9	2.0	0.00120	14
0.37	0.5	8	80-2	770	2.00	1.16	1.00	0.96	0.92	0.61	54.0	3.3	3.10	1.8	2.0	0.00210	17
		2	71-1	3280	1.70	0.98	0.85	0.81	0.78	0.81	70.0	6.1	1.08	2.2	2.2	0.00050	14
		4	71-2	1610	1.92	1.11	0.96	0.92	0.88	0.75	67.0	5.2	2.19	2.1	2.2	0.00120	14
		6	80-1	1060	2.24	1.30	1.12	1.07	1.03	0.70	62.0	4.7	3.33	1.9	2.0	0.00160	15
0.55	0.75	8	90S	800	2.56	1.48	1.28	1.22	1.17	0.60	62.0	4.0	4.42	1.9	2.3	0.00300	24
		2	71-2	3350	2.42	1.40	1.21	1.16	1.11	0.82	73.0	6.1	1.57	2.2	2.3	0.00063	14
		4	80-1	1670	2.70	1.56	1.35	1.29	1.24	0.75	71.0	5.2	3.14	2.4	2.3	0.00130	15
		6	80-2	1060	3.10	1.79	1.55	1.48	1.42	0.72	65.0	4.7	4.95	1.9	2.1	0.00200	16
0.75	1	8	90L	800	3.76	2.16	1.88	1.80	1.72	0.60	63.0	4.0	6.56	2.0	2.3	0.00400	26
		2	80-1	3410	3.16	1.83	1.58	1.51	1.45	0.83	75.0	6.1	2.10	2.2	2.3	0.00083	15
		4	80-2	1660	3.54	2.05	1.77	1.69	1.62	0.76	73.0	6.0	4.31	2.3	2.3	0.00150	16
		6	90S	1100	3.96	2.29	1.98	1.89	1.82	0.72	69.0	5.5	6.51	2.0	2.1	0.00300	23
1.1	1.5	8	100L-1	820	4.14	2.40	2.07	1.98	1.90	0.67	71.0	4.0	8.73	2.0	2.2	0.00630	33
		2	80-2	3410	4.46	2.58	2.23	2.13	2.04	0.84	77.0	7.0	3.08	2.2	2.3	0.00100	16
		4	90S	1670	4.98	2.88	2.49	2.38	2.28	0.77	75.0	6.0	6.29	2.3	2.3	0.00200	22
		6	90L	1100	5.50	3.18	2.75	2.63	2.52	0.73	72.0	5.5	9.55	2.0	2.1	0.00400	25
1.5	2	8	100L-2	820	5.72	3.31	2.86	2.74	2.62	0.69	73.0	5.0	12.81	1.8	2.2	0.00970	34
		2	90S	3000	5.92	3.43	2.96	2.83	2.71	0.84	79.0	7.0	4.77	2.2	2.3	0.00120	22
		4	90L	1670	6.44	3.73	3.22	3.08	2.95	0.79	78.0	6.0	8.58	2.3	2.3	0.00300	27
		6	100L	1100	6.90	3.99	3.45	3.30	3.16	0.75	76.0	5.5	13.02	2.0	2.1	0.00690	33
2.2	3	8	112M	840	7.60	4.40	3.80	3.63	3.48	0.69	75.0	5.0	17.05	2.0	2.5	0.01200	39
		2	90L	3410	8.38	4.85	4.19	4.01	3.84	0.85	81.0	7.0	6.16	2.2	2.3	0.00140	25
		4	100L-1	1690	8.90	5.15	4.45	4.26	4.08	0.81	80.0	7.0	12.43	2.3	2.3	0.00540	34
		6	112M	1130	9.62	5.57	4.81	4.60	4.41	0.76	79.0	6.5	18.59	2.0	2.1	0.00710	39
3	4	8	132S	850	10.42	6.03	5.21	4.98	4.78	0.71	78.0	6.0	24.72	1.8	2.5	0.02900	62
		2	100L	3410	10.90	6.31	5.45	5.21	5.00	0.87	83.0	7.5	8.40	2.2	2.3	0.00290	33
		4	100L-2	1690	11.76	6.81	5.88	5.62	5.39	0.82	82.0	7.0	16.95	2.3	2.3	0.00670	35
		6	132S	1130	12.78	7.40	6.39	6.11	5.86	0.76	81.0	6.5	25.35	2.1	2.1	0.02740	56
3.7	5	8	132M	850	13.66	7.91	6.83	6.53	6.26	0.73	79.0	6.0	33.70	1.8	2.4	0.03800	66
		2	112M	3470	13.10	7.58	6.55	6.27	6.00	0.88	85.0	7.5	10.18	2.2	2.3	0.00500	40
		4	112M	1730	14.12	8.17	7.06	6.75	6.47	0.82	84.0	7.0	20.42	2.3	2.3	0.00910	44
		6	132M-1	1150	15.64	9.05	7.82	7.48	7.17	0.76	82.0	6.5	30.72	2.1	2.1	0.03430	71
4	5.5	8	160M-1	860	16.46	9.53	8.23	7.87	7.54	0.73	81.0	6.0	41.08	1.9	2.0	0.06490	94
		2	112M	3470	14.04	8.13	7.02	6.71	6.44	0.88	85.0	7.5	11.00	2.2	2.3	0.00500	40
		4	112M	1730	15.28	8.85	7.64	7.31	7.00	0.82	84.0	7.0	22.08	2.3	2.3	0.00910	44
		6	132M-1	1150	16.84	9.75	8.42	8.05	7.72	0.76	82.0	6.5	33.21	2.1	2.1	0.03430	71
5.5	7.5	8	160M-1	860	17.74	10.27	8.87	8.48	8.13	0.73	81.0	6.0	44.41	1.9	2.0	0.06490	94
		2	132S-1	3490	19.10	11.06	9.56	9.13	8.75	0.88	86.0	7.5	15.05	2.2	2.3	0.01040	59
		4	132S	1730	20.54	11.89	10.27	9.82	9.41	0.83	85.0	7.0	30.36	2.3	2.3	0.02050	61
		6	132M-2	1150	22.36	12.95	11.18	10.69	10.25	0.77	84.0	6.5	45.67	2.1	2.1	0.04310	75
7.5	10	8	160M-2	860	23.46	13.58	11.73	11.22	10.75	0.74	83.0	6.0	61.07	2.0	2.0	0.08210	106
		2	132S-2	3490	25.64	14.84	12.82	12.26	11.75	0.88	87.0	7.5	20.52	2.2	2.3	0.01210	62
		4	132M	1730	26.90	15.57	13.45	12.87	12.33	0.84	87.0	7.0	41.40	2.3	2.3	0.02960	73
		6	160M	1160	29.64	17.16	14.82	14.18	13.59	0.77	86.0	6.5	61.74	2.0	2.1	0.08000	108
		8	160L	860	31.72	17.79	15.36	14.69	14.08	0.75	85.5	6.0	83.28	2.0	2.0	0.11410	128

Data are subjected to revisions without any prior notice.

PERFORMANCE DATA 60HZ_2

Motor types WY, Class F insulation, 60Hz (For 2P/3600rpm, 4P/1800rpm, 6P/1200rpm, 8P/900rpm & 10P/720rpm)

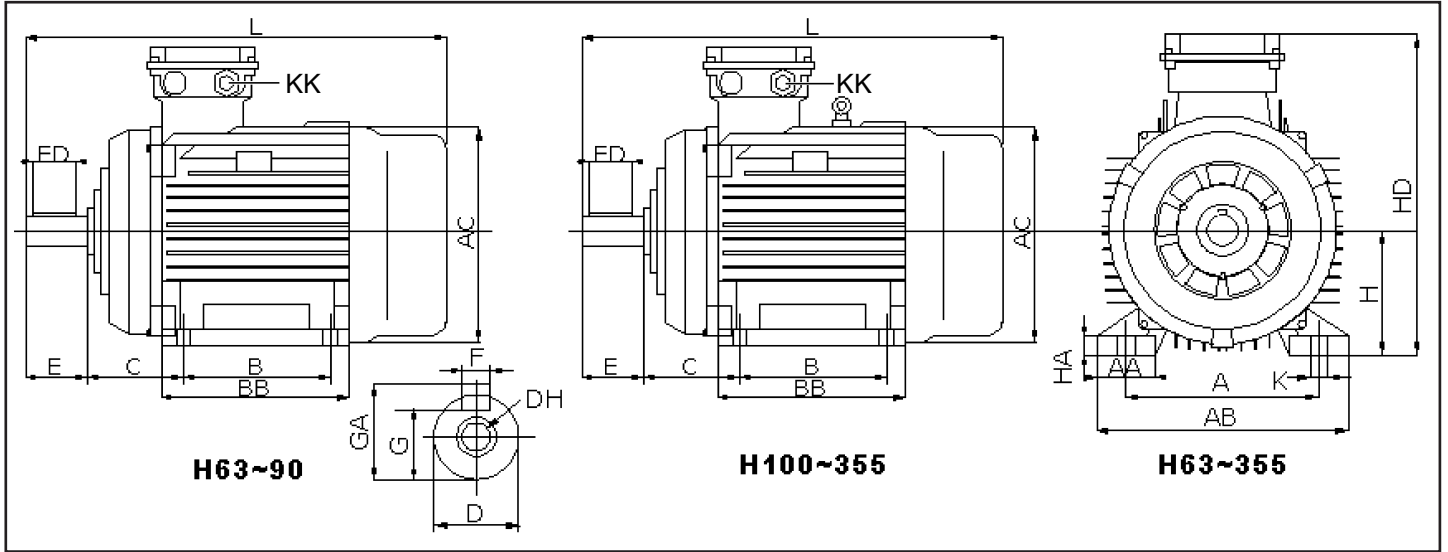
Rated Power		Pole	Frame Size	Rated Speed (RPM)	Current					Power Factor COS ϕ	Efficiency %	ILR / IFL	Rated Torque (TFL) Nm	TLR / TFL	TM / TFL	Moment of Inertia J Kg m^2	Weight Kg
KW	HP				220V (A)	380V (A)	440V (A)	460V (A)	480V (A)								
11	15	2	160M-1	3520	37.10	21.48	18.55	18.17	17.42	0.89	88.0	7.5	29.84	2.2	2.3	0.03700	107
		4	160M	1750	38.90	22.52	19.45	18.60	17.83	0.84	88.0	7.0	60.02	2.2	2.3	0.07240	113
		6	160L	1160	42.36	24.52	21.18	20.26	19.42	0.78	87.5	6.5	90.55	2.0	2.1	0.01080	131
		8	180L	880	43.46	25.16	21.73	20.79	19.92	0.76	87.5	6.6	119.36	2.2	2.8	0.18700	170
15	20	2	160M-2	3520	50.00	28.95	25.00	23.91	22.92	0.89	89.0	7.5	40.69	2.2	2.3	0.04320	117
		4	160L	1750	52.36	30.31	26.18	25.04	24.00	0.86	90.5	7.5	81.85	2.2	2.3	0.13500	133
		6	180L	1160	54.54	31.58	27.27	26.08	25.00	0.81	89.0	7.0	123.48	2.0	2.1	0.16700	171
		8	200L	880	58.90	34.10	29.45	28.17	27.00	0.76	88.0	6.6	162.77	2.2	2.8	0.32500	220
18.5	25	2	160L	3520	60.54	35.05	30.27	28.95	27.75	0.90	90.0	7.5	50.19	2.2	2.3	0.05250	134
		4	180M	1760	62.36	36.10	31.18	29.82	28.58	0.86	90.5	7.5	100.37	2.2	2.3	0.13500	167
		6	200L-1	1170	66.54	38.52	33.27	31.82	30.50	0.81	90.0	7.0	150.99	2.1	2.1	0.30200	216
		8	225S	880	70.90	41.05	35.45	33.91	32.50	0.76	90.0	6.6	200.75	2.0	3.0	0.48100	270
22	30	2	180M	3530	71.64	42.48	35.82	34.26	32.84	0.90	90.0	7.5	59.51	2.0	2.3	0.07100	169
		4	180L	1760	73.82	42.74	36.91	35.31	33.83	0.86	91.0	7.5	119.36	2.2	2.3	0.13600	181
		6	200L-2	1170	77.28	44.74	38.68	36.96	35.42	0.83	90.0	7.0	179.55	2.1	2.1	0.34200	225
		8	225M	880	81.82	47.37	40.91	39.13	37.50	0.78	90.5	6.6	238.73	2.0	2.9	0.53100	295
30	40	2	200L-1	3530	96.70	56.00	48.36	46.26	44.33	0.90	91.2	7.5	81.15	2.0	2.3	0.11900	220
		4	200L	1760	99.46	57.58	49.57	47.59	45.92	0.86	92.0	7.2	162.77	2.2	2.3	0.24500	232
		6	225M	1180	102.36	59.26	51.18	48.95	46.92	0.84	91.5	7.0	242.77	2.0	2.1	0.52500	286
		8	250M	880	109.46	63.37	54.73	52.35	50.17	0.79	91.0	6.6	325.53	1.9	2.8	0.80900	370
37	50	2	200L-2	3530	118.54	68.63	59.27	56.69	54.33	0.90	92.0	7.5	100.09	2.0	2.3	0.13300	239
		4	225S	1770	120.72	69.89	60.36	57.74	55.33	0.87	92.5	7.2	199.61	2.2	2.3	0.39000	287
		6	250M	1170	122.72	71.05	61.36	58.69	56.25	0.86	92.0	7.0	301.98	2.1	2.1	0.80700	380
		8	280S	880	134.36	77.79	67.18	64.26	61.58	0.79	91.5	6.6	401.49	2.0	2.4	1.38100	475
45	60	2	225M	3560	146.18	84.63	73.09	69.91	67.00	0.90	92.3	7.5	120.70	2.0	2.3	0.22100	297
		4	225M	1770	146.82	85.00	73.41	70.22	67.29	0.87	92.8	7.2	242.77	2.2	2.3	0.45000	322
		6	280S	1170	148.36	85.89	74.18	70.95	68.00	0.86	92.5	7.0	367.27	2.1	2.7	1.33400	465
		8	280M	880	162.54	94.10	81.27	77.74	74.50	0.79	92.0	6.6	488.30	2.0	2.4	1.72100	555
		10	315S	710	172.72	100.00	86.36	82.61	79.16	0.75	91.5	6.2	605.22	1.5	2.0	5.10000	890
55	75	2	250M	3560	174.36	100.95	87.18	83.39	79.92	0.90	92.5	7.5	147.53	2.0	2.3	0.30500	380
		4	250M	1770	178.36	103.26	89.18	85.30	81.75	0.87	93.0	7.2	296.72	2.2	2.3	0.64000	385
		6	280M	1180	180.90	104.73	90.45	86.52	82.91	0.86	92.8	7.0	445.08	2.1	2.7	1.59800	540
		8	315S	880	192.72	111.57	96.36	92.17	88.33	0.81	92.8	6.6	596.81	1.8	2.2	4.59000	905
		10	315M	710	20.910	121.06	104.55	100.00	95.84	0.75	92.0	6.2	739.71	1.5	2.0	6.10000	965
75	100	2	280S	3560	236.36	136.84	118.18	113.04	108.33	0.90	93.0	7.5	201.17	2.0	2.3	0.58400	510
		4	280S	1780	241.82	140.00	120.91	115.65	110.83	0.87	93.8	7.2	402.35	2.2	2.3	1.04500	510
		6	315S	1120	245.46	142.11	122.73	117.39	112.50	0.86	93.5	7.0	639.44	2.0	2.4	3.94000	861
		8	315M	880	261.82	151.58	130.91	125.22	120.00	0.81	93.0	6.6	813.84	1.8	2.2	5.36000	981
		10	315L-1	710	280.00	162.11	140.00	133.91	128.33	0.76	92.5	6.2	1008.70	1.5	2.0	6.90000	1040
90	125	2	280M	3560	276.36	160.00	138.18	132.17	126.67	0.91	93.8	7.5	241.41	2.0	2.3	0.66500	540
		4	280M	1780	289.10	167.37	144.55	138.27	132.50	0.87	94.2	7.2	482.81	2.2	2.3	1.39600	600
		6	315M	1122	292.72	169.47	146.36	140.00	134.16	0.86	93.8	7.0	765.96	2.0	2.4	4.58000	940
		8	315L-1	880	307.28	177.90	153.64	146.96	140.84	0.82	93.8	6.6	976.60	1.8	2.3	6.11000	1070
		10	315L-2	710	329.10	190.53	164.55	157.40	150.84	0.77	93.0	6.2	1210.44	1.5	2.0	7.20000	1130
110	150	2	315S	3570	338.18	195.79	169.09	161.74	155.00	0.91	94.0	7.1	294.23	1.8	2.2	1.13000	920
		4	315S	1780	347.28	201.06	173.64	166.09	159.17	0.88	94.5	6.9	590.11	2.1	2.2	2.98000	930
		6	315L-1	1120	356.36	206.31	178.18	170.43	163.33	0.86	94.0	6.7	937.85	2.0	2.4	5.23000	1110
		8	315L-2	880	374.54	216.84	187.27	179.13	171.66	0.82	94.0	6.4	1193.63	1.9	2.3	6.55000	1160
132	180	2	315M	3570	403.64	233.89	201.82	193.05	185.00	0.91	94.5	7.1	353.07	1.8	2.2	1.75000	970
		4	315M	1780	414.54	240.00	207.27	198.26	190.00	0.88	94.8	6.9	708.13	2.1	2.2	3.48000	1010
		6	315L-2	1120	421.82	244.21	210.91	201.74	193.33	0.87	94.2	6.7	1125.42	2.0	2.3	5.54000	1175
160	215	2	315L-1	3570	481.82	278.95	240.91	230.44	220.83	0.92	94.6	7.1	427.97	1.8	2.2	2.01000	1080
		4	315L-1	1780	496.36	287.37	248.18	237.39	227.50	0.89	94.9	6.9	858.34	2.1	2.2	3.96000	1070
200	270	2	315L-2	3570	601.82	350.42	301.91	287.83	275.83	0.92	94.8	7.1	534.96	1.8	2.2	2.27000	1170
		4	315L-2	1780	620.00	368.95	310.00	296.52	284.17	0.89	95.0	6.9	1072.92	2.1	2.2	4.47000	1170

Data are subjected to revisions without any prior notice.

WY B3 FOOT MOUNTING DIMENSIONS



F#63~90 without lifting bolt

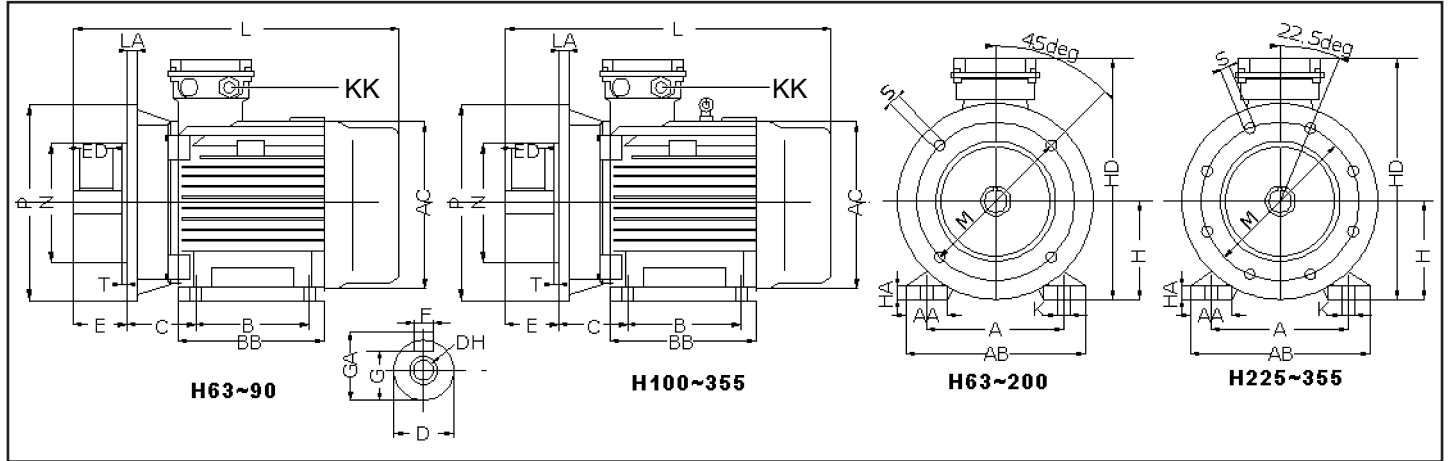


Frame Size	Poles	Mounting Dimensions (mm)										Overall Dimensions (mm)										
		A	B	C	D	E	F	G	H	K	AA	AB	AC	AD	BB	KK	ED	DH	GA	HA	HD	L
63	2,4	100	80	40	11j6	23	4	8.5	63	7	28.5	135	130	70	101	M16X1.5	15	M4X10	12.5	11	180	225
71	2,4,6	112	90	45	14j6	30	5	11	71	7	24	150	150	124	108	M16X1.5	20	M5X13	16	10.5	195	255
80	2,4,6,8	125	100	50	19j6	40	6	15.5	80	10	34	165	175	145	135	M25X1.5	32	M6X16	21.5	12	220	295
90S	2,4,6,8	140	100	56	24j6	50	8	20	90	10	36	180	195	155	140	M25X1.5	32	M8X20	27	12	250	315
90L	2,4,6,8	140	125	56	24j6	50	8	20	90	10	36	180	195	155	165	M25X1.5	32	M8X20	27	12	250	340
100L	2,4,6,8	160	140	63	28j6	60	8	24	100	12	40	205	215	180	185	M25X1.5	40	M10X25	31	14	270	385
112M	2,4,6,8	190	140	70	28j6	60	8	24	112	12	45	230	240	190	185	M32X1.5	40	M10X25	31	15	300	400
132S	2,4,6,8	216	140	89	38k6	80	10	33	132	12	55	270	275	210	190	M32X1.5	56	M12X30	41	18	345	470
132M	2,4,6,8	216	178	89	38k6	80	10	33	132	12	55	270	275	210	230	M32X1.5	56	M12X30	41	18	345	510
160M	2,4,6,8	254	210	108	42k6	110	12	37	160	15	65	320	330	255	274	M40X1.5	85	M16X36	45	20	420	615
160L	2,4,6,8	254	254	108	42k6	110	12	37	160	15	65	320	330	255	318	M40X1.5	85	M16X36	45	20	420	670
180M	2,4,6,8	279	241	121	48k6	110	14	42.5	180	15	70	355	380	280	315	M40X1.5	80	M16X36	51.5	22	455	700
180L	2,4,6,8	279	279	121	48k6	110	14	42.5	180	15	70	355	380	280	355	M40X1.5	80	M16X36	51.5	22	455	740
200L	2,4,6,8	318	305	133	55m6	110	16	49	200	19	70	395	420	305	375	M50X1.5	100	M20X42	59	25	505	770
225S	4,8	356	286	149	60m6	140	18	53	225	19	75	435	470	335	375	M50X1.5	125	M20X40	64	28	560	845
225M	2	356	311	149	55m6	110	16	49	225	19	75	435	470	335	400	M50X1.5	100	M20X40	59	28	560	820
225M	4,6,8	356	311	149	60m6	140	18	53	225	19	75	435	470	335	400	M50X1.5	125	M20X40	64	28	560	850
250M	2	406	349	168	60m6	140	18	53	250	24	80	490	510	370	450	M63X1.5	125	M20X42	64	30	615	910
250M	4,6,8	406	349	168	65m6	140	18	58	250	24	80	490	510	370	450	M63X1.5	125	M20X42	69	30	615	910
280S	2	457	368	190	65m6	140	18	58	280	24	85	550	580	410	490	M63X1.5	100	M20X42	69	45	680	985
280S	4,6,8	457	368	190	75m6	140	20	67.5	280	24	85	550	580	410	535	M63X1.5	100	M20X42	79.5	35	680	985
280M	2	457	419	190	65m6	140	18	58	280	24	85	550	580	410	540	M63X1.5	100	M20X42	69	35	680	1035
280M	4,6,8	457	419	190	75m6	140	20	67.5	280	24	85	550	580	410	535	M63X1.5	100	M20X42	79.5	35	680	1035
315S	2	508	406	216	65m6	140	18	58	315	28	116	635	645	530	680	M63X1.5	110	M20X46	69	45	845	1190
315S	4,6,8,10	508	406	216	80m6	170	22	71	315	28	116	635	645	530	675	M63X1.5	140	M20X46	85	45	845	1220
315M	2	508	457	216	65m6	140	18	58	315	28	116	635	645	530	680	M63X1.5	110	M20X46	69	45	845	1300
315M	4,6,8,10	508	457	216	80m6	170	22	71	315	28	116	635	645	530	675	M63X1.5	140	M20X46	85	45	845	1330
315L	2	508	508	216	65m6	140	18	58	315	28	116	635	645	530	680	M63X1.5	110	M20X46	69	45	845	1300
315L	4,6,8,10	508	508	216	80m6	170	22	71	315	28	116	635	645	530	675	M63X1.5	140	M20X46	85	45	845	1330
355M	2	610	560	254	75m6	140	20	67.5	355	28	120	730	720	655	710	M63X1.5	160	M20X46	79.5	52	1010	1500
355M	4,6,8,10	610	560	254	95m6	170	25	86	355	28	120	730	720	655	775	M63X1.5	140	M24X46	100	49	1010	1530
355L	2	610	630	254	75m6	140	20	67.5	355	28	120	730	720	655	840	M63X1.5	160	M20X46	79.5	52	1010	1500
355L	4,6,8,10	610	630	254	95m6	170	25	86	355	28	120	730	720	655	775	M63X1.5	140	M24X46	100	49	1010	1530

Data are subjected to revisions without any prior notice.

WY B35 FOOT & FLANGE MOUNTING DIMENSIONS

F#63~90 without lifting bolt



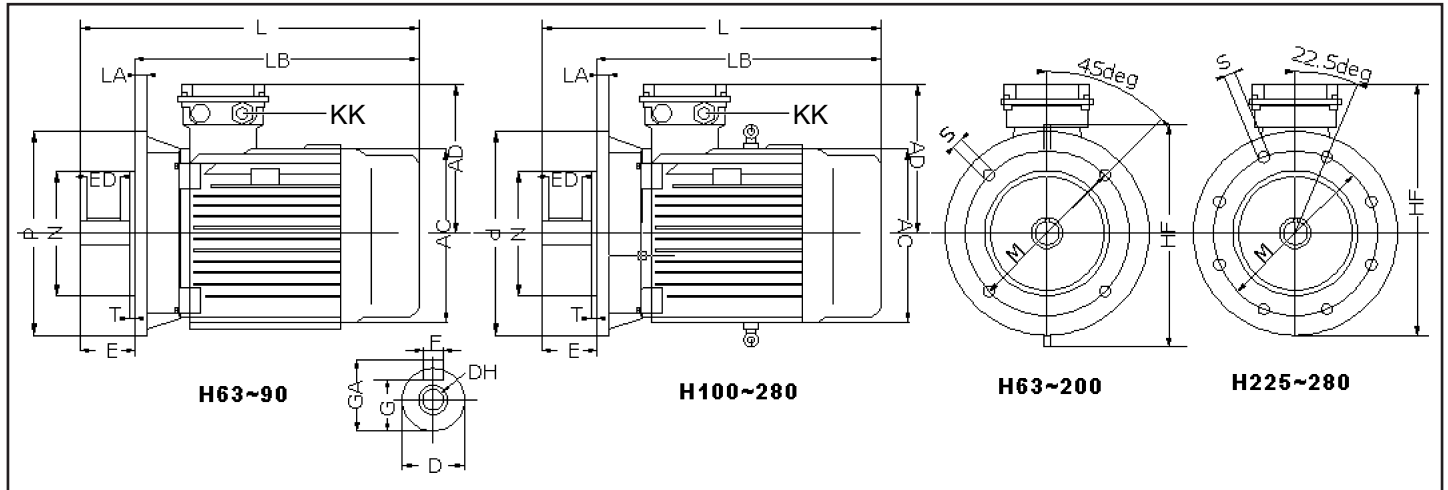
Frame Size	Poles	Mounting Dimensions (mm)														Overall Dimensions (mm)													
		A	B	C	D	E	F	G	H	K	M	N	P	S	T	AA	AB	AC	LA	KK	BB	ED	DH	GA	HA	HD	L		
63	2,4	100	80	40	11j6	23	4	8.5	63	7	115	95	140	4-ø10	3	28.5	135	130	-	M16X1.5	101	15	M4X10	12.5	10	180	225		
71	2,4,6	112	90	45	14j6	30	5	11	71	7	130	110	160	4-ø10	3.5	24	150	150	-	M16X1.5	108	20	M5X13	16	11	195	255		
80	2,4,6,8	125	100	50	19j6	40	6	15.5	80	10	165	130	200	4-ø12	3.5	34	165	175	12	M25X1.5	135	32	M6X16	21.5	12	220	295		
90S	2,4,6,8	140	100	56	24j6	50	8	20	90	10	165	130	200	4-ø12	3.5	36	180	195	12	M25X1.5	140	32	M8X20	27	12	250	315		
90L	2,4,6,8	140	125	56	24j6	50	8	20	90	10	165	130	200	4-ø12	3.5	36	180	195	12	M25X1.5	165	32	M8X20	27	12	250	340		
100L	2,4,6,8	160	140	63	28j6	60	8	24	100	12	215	180	250	4-ø15	4	40	205	215	13	M25X1.5	185	40	M10X25	31	14	270	385		
112M	2,4,6,8	190	140	70	28j6	60	8	24	112	12	215	180	250	4-ø15	4	45	230	240	14	M32X1.5	185	40	M10X25	31	15	300	400		
132S	2,4,6,8	216	140	89	38k6	80	10	33	132	12	265	230	300	4-ø15	4	55	270	275	14	M32X1.5	190	56	M12X30	41	18	345	470		
132M	2,4,6,8	216	178	89	38k6	80	10	33	132	12	265	230	300	4-ø15	4	55	270	275	14	M32X1.5	230	56	M12X30	41	18	345	510		
160M	2,4,6,8	254	210	108	42k6	110	12	37	160	15	300	250	350	4-ø19	5	65	320	330	15	M40X1.5	274	85	M16X36	45	20	420	615		
160L	2,4,6,8	254	254	108	42k6	110	12	37	160	15	300	250	350	4-ø19	5	65	320	330	15	M40X1.5	318	85	M16X36	45	20	420	670		
180M	2,4,6,8	279	241	121	48k6	110	14	42.5	180	15	300	250	350	4-ø19	5	70	355	380	15	M40X1.5	315	80	M16X36	51.5	22	455	700		
180L	2,4,6,8	279	279	121	48k6	110	14	42.5	180	15	300	250	350	4-ø19	5	70	355	380	15	M40X1.5	355	80	M16X36	51.5	22	455	740		
200L	2,4,6,8	318	305	133	55m6	110	16	49	200	19	350	300	400	4-ø19	5	70	395	420	17	M50X1.5	375	100	M20X24	59	25	505	770		
225S	4,8	356	286	149	60m6	140	18	53	225	19	400	350	450	8-ø19	5	75	435	470	20	M50X1.5	375	125	M20X40	64	28	560	845		
225M	2	356	311	149	55m6	110	16	49	225	19	400	350	450	8-ø19	5	75	435	470	20	M50X1.5	400	100	M20X40	59	28	560	820		
225M	4,6,8	356	311	149	60m6	140	18	53	225	19	400	350	450	8-ø19	5	75	435	470	20	M50X1.5	400	125	M20X40	64	28	560	850		
250M	2	406	349	168	60m6	140	18	53	250	24	500	450	550	8-ø19	5	80	490	510	22	M63X1.5	450	125	M20X42	64	30	615	910		
250M	4,6,8	406	349	168	65m6	140	18	58	250	24	500	450	550	8-ø19	5	80	490	510	22	M63X1.5	450	125	M20X42	69	30	615	910		
280S	2	457	368	190	65m6	140	18	58	280	24	500	450	550	8-ø19	5	85	550	580	22	M63X1.5	490	100	M20X42	69	45	680	985		
280S	4,6,8	457	368	190	75m6	140	20	67.5	280	24	500	450	550	8-ø19	5	85	550	580	22	M63X1.5	490	100	M20X42	79.5	45	685	985		
280M	2	457	419	190	65m6	140	18	58	280	24	500	450	550	8-ø19	5	85	550	580	22	M63X1.5	540	100	M20X42	69	35	680	1035		
280M	4,6,8	457	419	190	75m6	140	20	67.5	280	28	500	450	550	8-ø19	5	85	550	580	22	M63X1.5	535	100	M20X42	79.5	35	685	1035		
315S	2	508	406	216	65m6	140	18	58	315	28	600	550	660	8-ø24	6	116	635	645	22	M63X1.5	680	110	M20X46	69	45	845	1190		
315S	4,6,8,10	508	406	216	80m6	170	22	71	315	28	600	550	660	8-ø24	6	116	635	645	24	M63X1.5	565	140	M20X46	85	45	870	1220		
315M	2	508	457	216	65m6	140	18	58	315	28	600	550	660	8-ø24	6	116	635	645	22	M63X1.5	680	110	M20X46	69	45	845	1300		
315M	4,6,8,10	508	457	216	80m6	170	22	71	315	28	600	550	660	8-ø24	6	116	635	645	24	M63X1.5	675	140	M20X46	85	45	870	1330		
315L	2	508	508	216	65m6	140	18	58	315	28	600	550	660	8-ø24	6	116	635	645	22	M63X1.5	680	110	M20X46	69	45	845	1300		
315L	4,6,8,10	508	508	216	80m6	170	22	71	315	28	600	550	660	8-ø24	6	116	635	645	24	M63X1.5	675	140	M20X46	85	45	870	1330		
355M	2	610	560	254	75m6	140	20	67.5	355	28	740	680	800	8-ø24	6	120	730	720	25	M63X1.5	710	160	M20X46	79.5	52	1010	1500		
355M	4,6,8,10	610	560	254	95m6	170	25	86	355	28	740	680	800	8-ø24	6	120	730	720	25	M63X1.5	775	140	M24X46	100	52	1010	1530		
355L	2	610	630	254	75m6	140	20	67.5	355	28	740	680	800	8-ø24	6	120	730	720	25	M63X1.5	840	160	M20X46	79.5	52	1010	1500		
355L	4,6,8,10	610	630	254	95m6	170	25	86	355	28	740	680	800	8-ø24	6	120	730	720	25	M63X1.5	775	140	M24X46	100	52	1010	1530		

Data are subjected to revisions without any prior notice.

WY B5 FLANGE MOUNTING DIMENSIONS



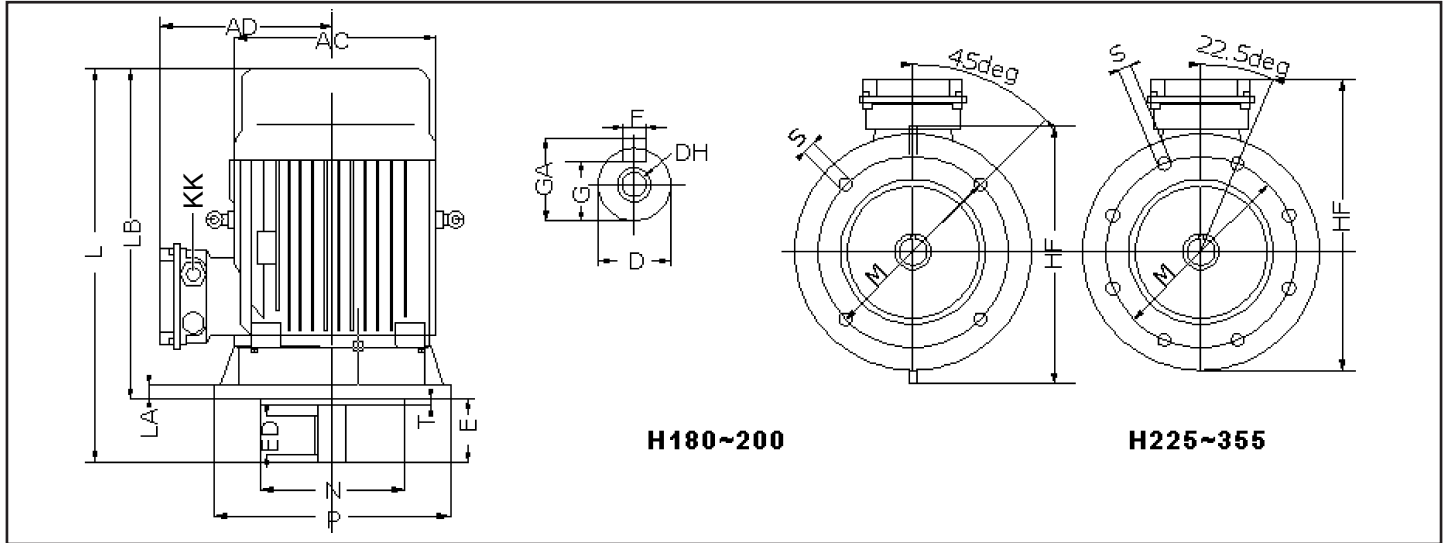
F#63~90 without lifting bolt



Frame Size	Poles	Mounting Dimensions (mm)										Overall Dimensions (mm)									
		D	E	F	G	M	N	P	S	T	AC	AD	ED	KK	DH	GA	HF	LA	LB	L	
63	2,4	11j6	23	4	8.5	115	95	140	4-ø10	3	130	105	15	M16X1.5	M4X10	12.5	185	-	199	225	
71	2,4,6	14j6	30	5	11	130	110	160	4-ø10	3.5	150	124	20	M16X1.5	M5X13	16	200	10.2	221.5	255	
80	2,4,6,8	19j6	40	6	15.5	165	130	200	4-ø12	3.5	175	135	32	M25X1.5	M6X16	21.5	235	12	251.5	295	
90S	2,4,6,8	24j6	50	8	20	165	130	200	4-ø12	3.5	195	150	32	M25X1.5	M8X20	27	250	12	261.5	315	
90L	2,4,6,8	24j6	50	8	20	165	130	200	4-ø12	3.5	195	170	32	M25X1.5	M8X20	27	270	12	286.5	340	
100L	2,4,6,8	28j6	60	8	24	215	180	250	4-ø15	4	215	155	40	M25X1.5	M10X25	31	280	13	321	385	
112M	2,4,6,8	28j6	60	8	24	215	180	250	4-ø15	4	240	235	40	M32X1.5	M10X25	31	360	14	336	400	
132S	2,4,6,8	38k6	80	10	33	265	230	300	4-ø15	4	275	210	56	M32X1.5	M12X30	45	360	14	386	470	
132M	2,4,6,8	38k6	80	10	33	265	230	300	4-ø15	4	275	210	56	M32X1.5	M12X30	45	360	14	426	510	
160M	2,4,6,8	42k6	110	12	37	300	250	350	4-ø19	5	330	255	85	M40X1.5	M16X36	46	430	15	500	615	
160L	2,4,6,8	42k6	110	12	37	300	250	350	4-ø19	5	330	255	85	M40X1.5	M16X36	46	430	15	555	670	
180M	2,4,6,8	48k6	110	14	42.5	300	250	350	4-ø19	5	380	255	80	M40X1.5	M16X36	51.5	430	15	585	700	
180L	2,4,6,8	48k6	110	14	42.5	300	250	350	4-ø19	5	380	275	80	M40X1.5	M16X36	51.5	450	15	625	740	
200L	2,4,6,8	55m6	110	16	49	350	300	400	4-ø19	5	420	345	100	M50X1.5	M20X42	59	545	17	655	770	
225S	4,8	60m6	140	18	53	400	350	450	8-ø19	5	470	330	125	M50X1.5	M20X40	64	555	20	700	845	
225M	2	55m6	110	16	49	400	350	450	8-ø19	5	470	330	100	M50X1.5	M20X40	60	555	20	705	820	
225M	4,6,8	60m6	140	18	53	400	350	450	8-ø19	5	470	330	125	M50X1.5	M20X40	59	555	20	705	850	
250M	2	60m6	140	18	53	500	450	550	8-ø19	5	510	365	125	M63X1.5	M20X42	64	640	22	765	910	
250M	4,6,8	65m6	140	18	58	500	450	550	8-ø19	5	510	365	125	M63X1.5	M20X42	69	640	22	765	910	
280S	2	65m6	140	18	58	500	450	550	8-ø19	5	580	400	100	M63X1.5	M20X42	69	675	22	840	985	
280S	4,6,8	75m6	140	20	67.5	500	450	550	8-ø19	5	580	405	110	M63X1.5	M20X42	79.5	675	22	840	985	
280M	2	65m6	140	18	58	500	450	550	8-ø19	5	580	400	100	M63X1.5	M20X42	69	675	22	890	1035	
280M	4,6,8	75m6	140	20	67.5	500	450	550	8-ø19	5	580	405	110	M63X1.5	M20X42	79.5	675	22	890	1035	

Data are subjected to revisions without any prior notice.

WY VI FLANGE MOUNTING DIMENSIONS

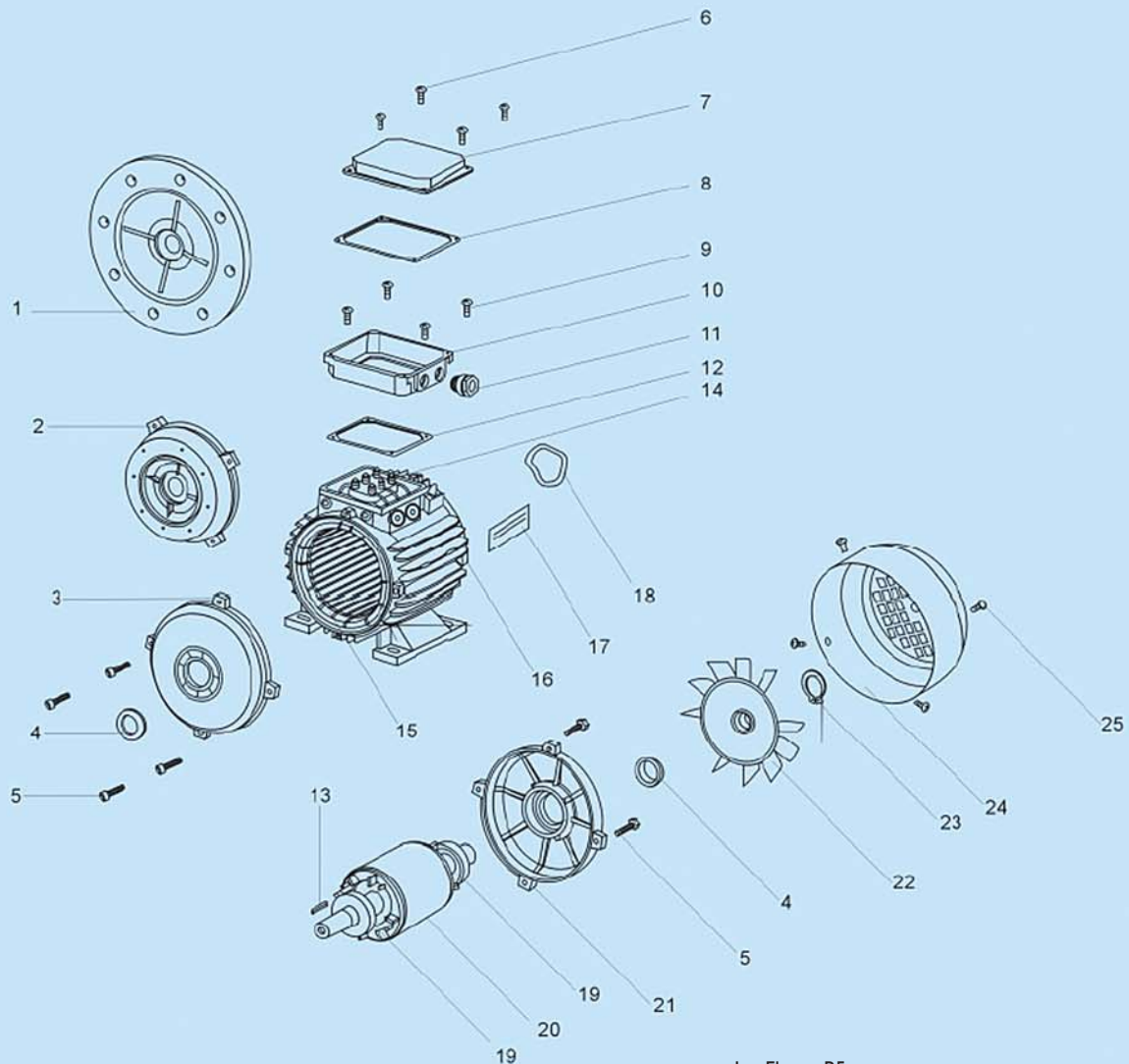


Frame Size	Poles	Mounting Dimensions (mm)										Overall Dimensions (mm)								
		D	E	F	G	M	N	P	S	T	AC	AD	ED	KK	DH	GA	HF	LA	LB	L
180M	2,4,6,8	48k6	110	14	42.5	300	250	350	4-ø19	5	380	280	80	M40X1.5	M16X36	51.5	500	15	585	760
180L	2,4,6,8	48k6	110	14	42.5	300	250	350	4-ø19	5	380	280	80	M40X1.5	M16X36	51.5	500	15	625	800
200L	2,4,6,8	55m6	110	16	49	350	300	400	4-ø19	5	420	305	100	M50X1.5	M20X42	59	550	17	655	840
225S	4,8	60m6	140	18	53	400	350	450	8-ø19	5	470	335	125	M50X1.5	M20X40	64	610	20	700	905
225M	2	55m6	110	16	49	400	350	450	8-ø19	5	470	335	100	M50X1.5	M20X40	59	610	20	705	910
225M	4,6,8	60m6	140	18	53	400	350	450	8-ø19	5	470	335	125	M50X1.5	M20X40	64	610	20	700	935
250M	2	60m6	140	18	53	500	450	550	8-ø19	5	510	370	125	M63X1.5	M20X42	64	650	22	765	1015
250M	4,6,8	65m6	140	18	58	500	450	550	8-ø19	5	510	370	125	M63X1.5	M20X42	69	650	22	765	1015
280S	2	65m6	140	18	58	500	450	550	8-ø19	5	580	410	100	M63X1.5	M20X42	69	685	22	840	1110
280S	4,6,8	75m6	140	20	67.5	500	450	550	8-ø19	5	580	410	110	M63X1.5	M20X42	79.5	685	22	840	1110
280M	2	65m6	140	18	58	500	450	550	8-ø19	5	580	410	100	M63X1.5	M20X42	69	685	22	890	1150
280M	4,6,8	75m6	140	20	67.5	500	450	550	8-ø19	5	580	410	110	M63X1.5	M20X42	79.5	685	22	890	1150
315S	2	65m6	140	18	58	600	550	660	8-ø24	6	645	530	110	M63X1.5	M20X46	69	830	22	1014	1320
315S	4,6,8,10	80m6	170	22	71	600	550	660	8-ø24	6	645	530	140	M63X1.5	M20X46	85	830	24	1094	1350
315M	2	65m6	140	18	58	600	550	660	8-ø24	6	645	530	110	M63X1.5	M20X46	69	830	22	1044	1430
315M	4,6,8,10	80m6	170	22	71	600	550	660	8-ø24	6	645	530	140	M63X1.5	M20X46	85	830	24	1124	1460
315L	2	65m6	140	18	58	600	550	660	8-ø24	6	645	530	110	M63X1.5	M20X46	69	830	22	1044	1430
315L	4,6,8,10	80m6	170	22	71	600	550	660	8-ø24	6	645	530	140	M63X1.5	M20X46	85	830	24	1124	1460
355M	2	75m6	140	20	67.5	740	680	800	8-ø24	6	720	655	160	M63X1.5	M20X46	79.5	990	25	1500	1640
355M	4,6,8,10	95m6	170	25	86	740	680	800	8-ø24	6	720	655	140	M63X1.5	M24X46	100	990	25	1500	1670

Data are subjected to revisions without any prior notice.

Frame Size	Driving End			Non-Driving End		
	2 pole	4,6,8 pole	10 Pole	2 pole	4,6,8 pole	10 Pole
63	6201-ZZ-C3	6201-ZZ-C3		6201-ZZ-C3	6201-ZZA-C3	
71	6202-ZZ-C3	6202-ZZ-C3		6202-ZZ-C3	6202-ZZA-C3	
80	6204-ZZ-C3	6204-ZZ-C3		6204-ZZ-C3	6204-ZZA-C3	
90	6205-ZZ-C3	6205-ZZ-C3		6205-ZZ-C3	6205-ZZA-C3	
100	6206-ZZ-C3	6206-ZZ-C3		6206-ZZ-C3	6206-ZZA-C3	
112	6306-ZZ-C3	6306-ZZ-C3		6206-ZZ-C3	6206-ZZA-C3	
132	6308-ZZ-C3	6308-ZZ-C3		6208-ZZ-C3	6208-ZZA-C3	
160	6309-ZZ-C3	6309-ZZ-C3		6209-ZZ-C3	6209-ZZA-C3	
180	6311-C3	6311-C3		6211-C3	6211-C3	
200	6312-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	N319	N319	6317-C3	6319-C3	
355	6319-C3	NU322	NU322	6319-C3	6322-C3	6322-C3

Data are subjected to revisions without any prior notice.



This catalogue is only a reference for users. The concrete data may be changed, please contact with us before ordering.

Note type, rated output synchronous speed, voltage and frequency, insulation class, mounting type etc. When ordering.

If particularly required, and consulted with us, we may deliver following special type of motor:

- (1) Voltage: Such as 420V
- (2) Frequency 60Hz
- (3) Double shaft end
- (4) Motor for tropical humid climate

- 1. Flange B5
- 2. Flange B14
- 3. Flange shield B3
- 4. Oilseal
- 5. Mounting studs screws
- 6. Screws for fixing terminal box cover
- 7. Terminal box cover IP55
- 8. Terminal seal
- 9. Screws for fixing terminal box base
- 10. Terminal box base IP55
- 11. Cable gland
- 12. Terminal seat
- 13. Key
- 14. Terminal board complete with components
- 15. Wound stator
- 16. Frame
- 17. Name plate
- 18. Spring washer
- 19. Bearings
- 20. Rotor with shaft
- 21. Back shield
- 22. Cooling fan
- 23. Circlip
- 24. Fan cover
- 25. Screws for fixing fan cover

STANDARD SPECIFICATION AND FEATURES OF WY MOTORS

Item	Standard Specifications
Type of Motor	Totally-enclosed fan-cooled squirrel cage induction motor
Design standards	IEC 60034-1
Voltage and frequency	Standard stock available are : 220-240/380-415V/50Hz for 2.2KW & below 380-415/660-720V/50Hz for 3KW & above other voltages such as 200V, 346V, 440V, 460V & 60Hz etc can be supplied on request
Power conditions	± 5% of Rated voltage and ± 1% frequency ± 1% Phase unbalance
Time duty	Continuous S1, MCR (S.F:1.0)
Cooling method	Self external fan, surface cooling (IC 411)
Method of starting	Full voltage direct on line starting or star-delta starting
Mounting	Horizontal foot mounting, flange mounting : B3; B5; B14; B34; B35; V1
Insulation class &	Adopting class F insulation and checking permissible limits of temperature
Temperature rise	rise against that of class B to improve the insulation reliability
Rotor winding	Squirrel cage, aluminum conductor with end-ring and wafer blades integrally cast
Environmental conditions	Place : Non-hazardous, Shaded Ambient temperature : -10°C to 40°C Relative humidity : Less than 90% RH(non-condensation) Altitude : Up to 1,000 metres above sea level
Drive method	Belt service (Note: F#225 and above is for coupling drive)
Direction of rotation	Standard motors are suitable for operation in either direction of rotation Direction of rotation of motor can be reversed by interchanging any two of the power lines
Test procedure	IEC and full voltage measuring starting operation
Fan cover	Pressed steel
Shaft	Carbon steel, round shaft with key
Bearing	Grease pre-packed shielded ball bearing
Lubrication	Lithium-base grease (Shell Alvania R3)
Painting	Phenolic rust-proof base plus lacquer surface finish; Painting in blue colour
Nameplate	Stainless steel
Grounding terminal	NE set inside the terminal box

Motors can be customized in accordance to customers' requirements:

1. IP56
2. IP66
3. Class H Insulation
4. Multi-speed
5. Special paint finished
6. Corrosion-proof
7. PTC thermister for heater thermal protection
8. Anti-condensation heater
9. Special shaft extension
10. Inverter duty application
11. Grease relief for frames down to 100L
12. Sun canopy
13. Brake motor
14. TENV motors
15. Extend lead wire



Att Electric & Machinery Pte Ltd

6 Fifth Lok Yang Road, Singapore 629757

Tel : 65-6261 3579 Fax : 65-6261 1263

Email : att@attelec.com Web : www.attelec.com