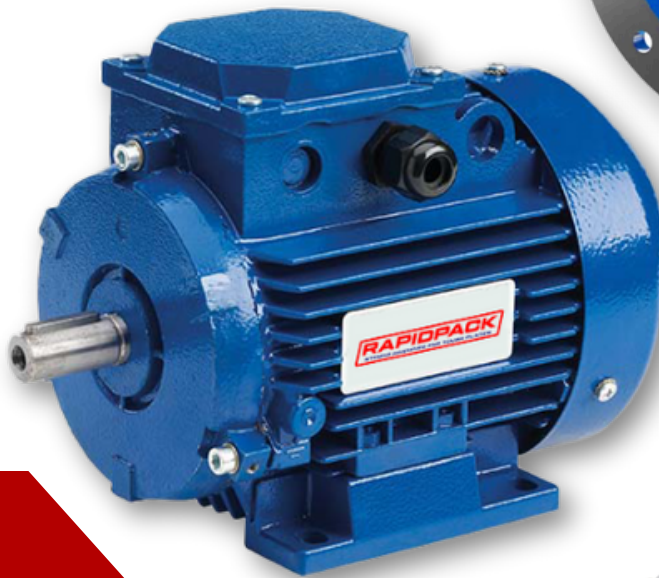




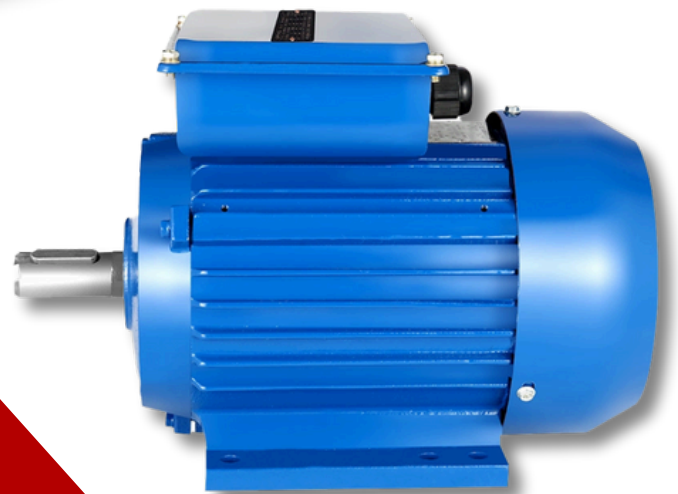
PRODUCT CATALOGUE

SI & CI SERIES



IE1

**THREE - PHASE
TEFC
INDUCTION MOTORS**



We are thrilled to unveil our latest innovation designed to redefine efficiency and performance in the packaging industry — the *Rapidpack Motors: SI and CI Series*.

These new additions to our product lineup represent a leap forward in technology and functionality, aimed at meeting the evolving needs of modern packaging operations.

Key Features and Benefits:

- **Versatility:** Available in various types and sizes, *Rapidpack Motors* can be used in a wide range of applications.
- **Reliability and Durability:** Built to withstand harsh conditions, *Rapidpack Motors* offer long service life with minimal maintenance.
- **Precision and Control:** Advanced *Rapidpack Motors* provide precise control over speed, position, and torque, essential for applications requiring high accuracy.
- **Environmental Impact:** High-efficiency Motors contribute to lower energy consumption and reduced greenhouse gas emissions.

The rugged construction of our motors makes them suitable for harsh environments where mechanical stresses and external impacts are common. Additionally, the high mechanical strength ensures long-term reliability and minimal maintenance, making these motors a preferred choice for industries such as mining, steel production, and other sectors requiring continuous operation.



Oliver Whitehorse
Head of Product Development
Rapidpack Worldwide FZE





STANDARD SPECIFICATIONS AND FEATURES OF RAPIDPACK MOTORS

Item	Standard Specifications
Type of Electric Motor	Totally enclosed fan cooling squirrel-cage induction motor
Design Standards	BS 4999, BS 5000, IEC 60034, IEC 60072
Voltage and Frequency	Standard motors available: 220-240V /380-415V /50Hz for 2.2kW & below 380-415V/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
Time Duty	Continuous S1 duty
Cooling Method	Self-external fan, surface cooling(IC 411)
Method Of Starting	Full voltage direct online starting or star-delta starting
Mounting	Horizontal foot mounting, flange mounting : B3 ; BS ; B14 ; B34; B35; V1
Stator Insulation	Class F insulation; Class B temperature rise
Rotor Winding	Squirrel cage, aluminum conductor with end-ring and wafer blades integrally cast
Environmental Conditions	Place: Shaded, non-hazardous Ambient Temperature: -20°C to 40°C Relative Humidity: Less than 90% RH (non-condensation) Altitude : Less than 1,000m
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 phases
Test Procedure	IEC and full voltage measuring starting operation
Shaft	Carbon steel, round shaft with key
Bearing	Motors of frame sizes 160 and below are fitted with self- lubricated Bearings Motors of frame sizes 180 and above are fitted with open bearings and regreasing device
Nameplate	Stainless steel or aluminum
Grounding Terminal	Set inside the terminal box
Fan Cover	Pressed Steel
Painting	Phenolic rust-proof base plus lacquer surface finish; Painting in blue color
Lubrication	Lithium-base grease (Shell Alvania R3)

Motors can be customized in accordance to customers' requirements:

- IP56
- IP66
- Class H Insulation
- Multi-speed
- Special paint finish
- Special volt/hz
- Corrosion-proof
- PTC thermister for heater thermal protection
- Anti-condensation heater
- Special shaft extension
- Inverter duly application
- Double ended shaft
- Grease relief for frames to 100L
- Sun canopy
- Brake motor
- TENV motor
- Extend lead wire
- High temp resistance

Table 1: Vibration						
Frame Size	≤132	≤ 132	> 132 - 225	> 132 - 225	> 225- 355	> 225 - 355
Synchronous Speed	600- 1800	> 1800 -3600	600- 1800	> 1800- 3600	600 - 1800	> 1800 - 3600
Vibration Class	Effective Value of Vibration Speed mm/s					
N	1.8	1.8	2.8	2.8	3.5	3.5
R	0.71	1.12	1.12	1.8	1.8	2.8
S	0.45	0.71	0.71	1.12	1.12	1.8

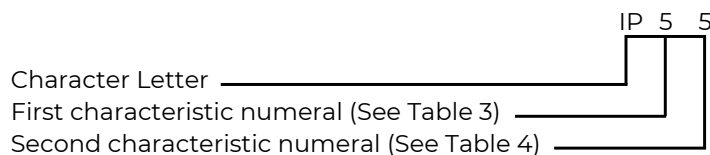
Standard motors are designed to vibration class N(normal), vibration class R(reduced) and class S(special) are available on request.

Table 2: Mounting Arrangements					
Foot Mount					
B3	V5	V6	B6	B7	B8
Flange			Flange and Feet		
B5	V1	V3	B35	V15	V36
Small Flange - Face		Small Flange - Face and Feet			
B14	V18	V19	B34	V17	V37

Table 3: Connection		
Three-phase motors with cage rotor		
Delta Connection	Star Connection	Connection to Star-Delta Starter
Multi-speed motors in Dahlander connection (Tapped winding)		
Low Speed	High Speed	
Multi-speed motors with 2 separate windings		
Low Speed	High Speed	



All *Rapidpack Motors* comply with the international standard IEC60034-5. This standard specifies the Degree of Protection of each electric equipment, commonly known as the "IP" code. Which degree of protection best suits your needs?



First characteristic numeral:

The first characteristic numeral indicates the degree of protection provided to different parts of the machine within the enclosure.

First Characteristic Numeral	Degree of Protection	
	Description	Definition
5	Dust-Protected Machine	Foreign objects are unable to enter 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 prevented.

Table 4: Degrees of protection indicated by the first characteristic numeral

Second Characteristic Numeral	Degree of Protection	
	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.

Table 5: Degrees of protection indicated by the second characteristic numeral

Bearing Size		
Frame	DE	NDE
56	6201ZZC3	6201ZZC3
63	6201ZZC3	6201ZZC3
71	6202ZZC3	6202ZZC3
80	6204ZZC3	6204ZZC3
90	6205ZZC3	6205ZZC3
100	6206ZZC3	6206ZZC3
112	6306ZZC3	6306ZZC3
132	6308ZZC3	6308ZZC3
160	6309ZZC3	6309ZZC3
180	6311C3	6311C3
200	6312C3	6312C3
225	6313C3	6313C3
250	6314C3	6314C3
280 2P	6314C3	6314C3
280 4P-8P	6316C3	6316C3
315 2P (Horizontal)	6316C3	6316C3
315 4P-8P (Vertical)	6319C3	7319
355 2P (Horizontal)	6319C3	6319C3
355 2P (Vertical)	6319C3	7319
355 4P-8P (Horizontal)	6322C3	6322C3
355 4P-8P (Vertical)	6322C3	7322



SI Performance Data 50Hz

Synchronous speed (2Pole/3000RPM, 4Pole/1500RPM, 6Pole/1000RPM, 8Pole/750RPM)

Rated Power		Pole	Frame Size	Rated Speed (RPM)	IFI 380V (A)	IFI 400V (A)	IFI 415V (A)	Power Factor COSφ	Efficiency η %	IST	TFI (Nm)	TST	TM	Weight (Kg)
KW	HP									IFI (Time)		TFI (Time)	TFI (Time)	
0.06	0.08	4	56-1	1320	0.32	0.3	0.29	0.59	30.0	6.0	0.43	2.3	2.4	3.0
		2	56-1	2670	0.37	0.35	0.34	0.65	37.0	6.0	0.32	2.2	2.4	2.8
0.09	0.12	4	56-2	1320	0.45	0.43	0.41	0.61	42.0	6.0	0.65	2.3	2.4	3.3
		2	56-2	2730	0.42	0.4	0.39	0.69	45.0	6.0	0.42	2.2	2.4	3.2
0.12	0.16	4	63-1	1350	0.49	0.47	0.45	0.64	50.0	6.0	0.85	2.2	2.4	3.9
		2	63-1	2710	0.58	0.55	0.53	0.75	52.8	6.0	0.63	2.2	2.4	4.0
0.18	0.25	4	63-2	1350	0.72	0.68	0.66	0.65	57.0	6.0	1.27	2.2	2.4	4.3
		6	71-1	880	0.74	0.7	0.67	0.66	45.5	4.0	1.95	1.6	1.7	6.0
		8	80-1	680	0.88	0.84	0.81	0.61	38.0	2.8	2.53	1.5	1.7	9.9
		2	63-2	2710	0.75	0.71	0.68	0.78	58.2	6.0	0.88	2.2	2.4	4.4
0.25	0.33	4	71-1	1350	0.88	0.84	0.81	0.72	61.5	6.0	1.77	2.2	2.4	5.4
		6	71-2	900	0.92	0.87	0.84	0.70	52.1	4.0	2.65	2.1	2.2	6.5
		8	80-2	680	1.12	1.06	1.02	0.61	43.4	2.7	3.51	1.6	2.0	10.9
		2	71-1	2730	1.11	1.05	1.01	0.78	63.9	6.0	1.29	2.2	2.4	5.6
0.37	0.5	4	71-2	1370	1.17	1.11	1.07	0.74	66.0	6.0	2.58	2.2	2.4	6.2
		6	80-1	900	1.29	1.23	1.19	0.70	59.7	4.0	3.93	1.9	1.9	8.2
		8	90S	680	1.42	1.35	1.3	0.63	49.7	2.8	5.2	1.6	1.8	14.8
		2	71-2	2760	1.49	1.42	1.37	0.79	69.0	6.0	1.9	2.2	2.4	6.1
0.55	0.75	4	80-1	1370	1.66	1.58	1.52	0.75	70.0	6.0	3.84	2.2	2.4	9.0
		6	80-2	900	1.74	1.65	1.59	0.72	65.8	4.0	5.84	2.0	2.3	9.9
		8	90L	680	1.95	1.85	1.78	0.65	56.1	3.0	7.73	1.6	1.8	17.2
		2	80-1	2770	1.86	1.77	1.71	0.84	72.1	6.0	2.59	2.2	2.4	9.1
0.75	1	4	80-2	1380	2.03	1.93	1.86	0.78	72.1	6.0	5.19	2.2	2.4	10.0
		6	90S	920	2.29	2.18	2.1	0.72	70.0	5.5	7.79	2.2	2.2	11.7
		8	100LA	710	2.58	2.45	2.36	0.67	61.2	3.5	10.09	1.7	2.1	17.5
		2	80-2	2770	2.64	2.51	2.42	0.83	75.0	6.0	3.79	2.2	2.4	10.2
1.1	1.5	4	90S	1400	2.78	2.64	2.54	0.79	75.0	6.0	7.5	2.2	2.4	12.1
		6	90L	925	3.18	3.02	2.91	0.73	72.9	5.5	11.36	2.2	2.2	15.1
		8	100LB	710	3.37	3.2	3.08	0.69	66.5	3.5	14.8	1.7	2.1	19.7
		2	90S	2840	3.45	3.28	3.16	0.84	77.2	6.0	5.05	2.2	2.4	12.0
1.5	2	4	90L	1400	3.63	3.45	3.33	0.80	77.2	6.0	10.24	2.2	2.4	14.6
		6	100L	945	4.05	3.85	3.71	0.76	75.2	6.0	15.17	2.2	2.2	19.1
		8	112M	710	4.53	4.3	4.14	0.68	70.2	4.2	20.19	1.8	2.1	25.6
		2	90L	2840	4.85	4.61	4.44	0.85	79.7	6.0	7.4	2.2	2.4	15.0
2.2	3	4	100LA	1420	5.09	4.84	4.67	0.81	79.7	7.0	14.8	2.2	2.3	21.0
		6	112M	955	5.64	5.36	5.17	0.76	77.7	6.0	22.0	2.2	2.2	25.4
		8	132S	720	6.27	5.96	5.74	0.71	74.2	5.5	29.2	2.0	2.0	35.5
		2	100L	2840	6.35	6.03	5.81	0.87	81.5	7.0	10.1	2.2	2.3	22.3
3	4	4	100LB	1420	6.81	6.47	6.24	0.81	81.5	7.0	20.19	2.2	2.3	24.7
		6	132S	960	7.59	7.21	6.95	0.76	79.7	6.5	29.86	2.0	2.0	36.1
		8	132M	720	8.11	7.7	7.42	0.73	77.0	5.5	39.81	2.0	2.0	45.0
		2	112M	2880	7.68	7.3	7.04	0.87	83.1	7.5	12.3	2.2	2.3	26.7
3.7	5	4	112M	1430	8.04	7.64	7.36	0.83	83.1	7.0	24.72	2.2	2.2	30.5
		6	132MA	960	9.19	8.73	8.41	0.76	81.4	6.5	36.83	2.0	2.0	45.0
		2	112M	2880	8.29	7.88	7.6	0.87	83.1	7.5	13.3	2.2	2.3	26.7
4	5.5	4	112M	1430	8.69	8.26	7.96	0.83	83.1	7.0	26.73	2.2	2.2	30.5
		6	132MA	960	9.94	9.44	9.1	0.76	81.4	6.5	39.81	2.0	2.0	45.0
		2	132SA	2900	11.08	10.53	10.15	0.88	84.7	7.5	18.1	2.0	2.2	38.5
5.5	7.5	4	132S	1450	11.61	11.03	10.63	0.84	84.7	7.0	36.24	2.2	2.2	40.4
		6	132MB	960	13.07	12.42	11.97	0.77	83.1	6.5	54.74	2.0	2.0	55.5
		2	132SB	2920	14.88	14.14	13.63	0.88	86.0	7.5	24.5	2.0	2.2	42.2
7.5	10	4	132M	1450	15.41	14.64	14.11	0.85	86.0	7.0	49.42	2.2	2.2	49.6

*Note:
 1. IFL = Full Load Current ; IST = Locked Rotor Current ; TFL = Full Load Torque ; TST = Locked Rotor Torque ; TM = Maximum Torque
 2. Tolerance according to IEC 60034-1
 3. The data above is based on 400V design, 380V and 415V data is the reference value.
 4. Data subject to change without notice

SI Performance Data 60Hz

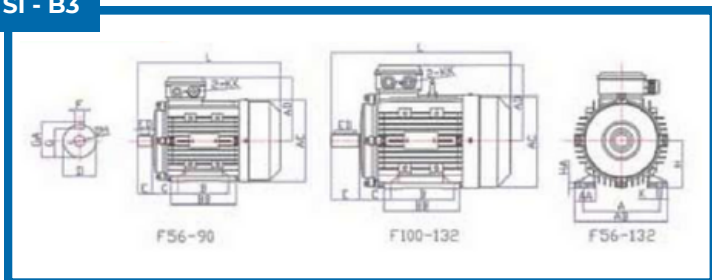
Synchronous speed (2Pole/3000RPM, 4Pole/1500RPM, 6Pole/1000RPM, 8Pole/750RPM)

Rated Power		Pole	Frame Size	Rated Speed (RPM)	IFI 440V (A)	IFI 460V (A)	IFI 480V (A)	Power Factor COSφ	Efficiency η %	IST	TFI	TST	TM	Weight (Kg)
KW	HP									IFI (Time)	(Nm)	(Time)	(Time)	
0.06	0.08	4	56-1	1584	0.22	0.21	0.21	0.59	48.5	6.0	0.36	2.3	2.4	3.0
0.09	0.12	2	56-1	3204	0.28	0.26	0.25	0.65	57.0	6.0	0.27	2.2	2.4	2.8
		4	56-2	1584	0.3	0.29	0.28	0.61	50.0	6.0	0.54	2.3	2.4	3.3
0.12	0.16	2	56-2	3276	0.36	0.35	0.33	0.69	57.5	6.0	0.35	2.2	2.4	3.2
		4	63-1	1620	0.41	0.4	0.38	0.64	62.0	6.0	0.71	2.2	2.4	3.9
0.18	0.25	2	63-1	3252	0.48	0.45	0.44	0.75	62.0	6.0	0.53	2.2	2.4	4.0
		4	63-2	1644	0.64	0.61	0.59	0.65	66.0	6.0	1.05	2.2	2.4	4.3
		6	71-1	1056	0.66	0.63	0.6	0.66	52.5	4.0	1.63	1.6	1.7	6.0
0.25	0.33	8	80-1	816	1.0	0.96	0.92	0.61	40.0	2.8	2.11	1.5	1.7	9.9
		2	63-2	3252	0.64	0.61	0.59	0.78	64.0	6.0	0.73	2.2	2.4	4.4
		4	71-1	1620	0.73	0.7	0.67	0.72	68.0	6.0	1.47	2.2	2.4	5.4
		6	71-2	1080	0.83	0.79	0.76	0.7	57.5	4.0	2.21	2.1	2.2	6.5
0.37	0.5	8	80-2	816	1.22	1.16	1.12	0.61	50.5	2.7	2.93	1.6	2.0	10.9
		2	71-1	3276	0.95	0.91	0.87	0.78	70.0	6.0	1.08	2.2	2.4	5.6
		4	71-2	1644	1.09	1.04	1.0	0.74	70.0	6.0	2.15	2.2	2.4	6.2
		6	80-1	1044	1.17	1.12	1.07	0.7	62.0	4.0	3.39	1.9	1.9	8.2
0.55	0.75	8	90S	816	1.49	1.43	1.37	0.63	57.5	2.8	4.33	1.6	1.8	14.8
		2	71-2	3312	1.3	1.24	1.19	0.79	72.0	6.0	1.59	2.2	2.4	6.1
		4	80-1	1668	1.59	1.52	1.46	0.75	74.0	6.0	3.15	2.2	2.4	9.0
		6	80-2	1080	1.9	1.82	1.74	0.72	66.0	4.0	4.87	2.0	2.3	9.9
0.75	1	8	90L	816	1.99	1.9	1.82	0.65	59.5	3.0	6.44	1.6	1.8	17.2
		2	80-1	3324	1.66	1.59	1.52	0.84	74.0	6.0	2.16	2.2	2.4	9.1
		4	80-2	1656	1.81	1.73	1.66	0.78	77.0	6.0	4.33	2.2	2.4	10.0
		6	90S	1104	2.07	1.98	1.9	0.72	72.0	5.5	6.49	2.2	2.2	11.7
1.1	1.5	8	100LA	852	2.16	2.07	1.98	0.67	64.0	3.5	8.41	1.7	2.1	17.5
		2	80-2	3324	2.33	2.23	2.14	0.83	78.5	6.0	3.16	2.2	2.4	10.2
		4	90S	1680	2.66	2.54	2.44	0.79	79.0	6.0	6.26	2.2	2.4	12.1
		6	90L	1110	2.94	2.81	2.69	0.73	75.0	5.5	9.47	2.2	2.2	15.1
1.5	2	8	100LB	852	3.28	3.14	3.01	0.69	73.5	3.5	12.34	1.7	2.1	19.7
		2	90S	3408	3.02	2.89	2.77	0.84	81.0	6.0	4.21	2.2	2.4	12.0
		4	90L	1680	3.28	3.14	3.01	0.8	81.5	6.0	8.53	2.2	2.4	14.6
		6	100L	1134	3.63	3.47	3.33	0.76	77.0	6.0	12.64	2.2	2.2	19.1
2.2	3	8	112M	852	4.4	4.21	4.04	0.68	77.0	4.2	16.82	1.8	2.1	25.6
		2	90L	3372	4.54	4.35	4.16	0.85	81.5	6.0	6.23	2.2	2.4	15.0
		4	100LA	1716	4.65	4.44	4.26	0.81	83.0	7.0	12.25	2.2	2.3	21.0
		6	112M	1146	5.01	4.79	4.59	0.76	78.5	6.0	18.34	2.2	2.2	25.4
3	4	8	132S	864	6.05	5.78	5.54	0.7	78.0	5.5	24.33	2.0	2.0	35.5
		2	100L	3408	5.61	5.37	5.15	0.86	84.5	7.0	8.41	2.2	2.3	22.3
		4	100LB	1704	5.87	5.62	5.38	0.81	85.0	7.0	16.82	2.2	2.3	24.7
		6	132S	1152	6.56	6.28	6.02	0.76	83.5	6.5	24.88	2.0	2.0	36.1
3.7	5	8	132M	864	6.91	6.61	6.33	0.74	80.0	5.5	33.18	2.0	2.0	45.0
		2	112M	3456	7.1	6.79	6.51	0.87	84.5	7.5	10.23	2.2	2.3	26.7
		4	112M	1740	7.27	6.96	6.67	0.83	85.0	7.0	20.32	2.2	2.2	30.5
4	5.5	6	132MA	1152	8.55	8.18	7.84	0.73	83.5	6.5	30.69	2.0	2.0	45.0
		2	112M	3456	7.17	6.86	6.57	0.87	84.5	7.5	11.06	2.2	2.3	26.7
		4	112M	1716	7.69	7.35	7.05	0.82	85.0	7.0	22.27	2.2	2.2	30.5
5.5	7.5	6	132MA	1152	8.64	8.26	7.92	0.76	83.5	6.5	33.18	2.0	2.0	45.0
		2	132SA	3480	9.67	9.25	8.87	0.88	86.0	7.5	15.1	2.0	2.2	38.5
		4	132S	1728	10.0	9.57	9.17	0.84	87.0	7.0	30.14	2.2	2.2	40.4
7.5	10	6	132MB	1152	11.4	10.9	10.45	0.77	85.0	6.5	45.62	2.0	2.0	55.5
		2	132SB	3504	12.95	12.39	11.88	0.88	87.5	7.5	20.45	2.0	2.2	42.2
		4	132M	1740	13.65	13.05	12.51	0.84	87.5	7.0	41.19	2.2	2.2	49.6

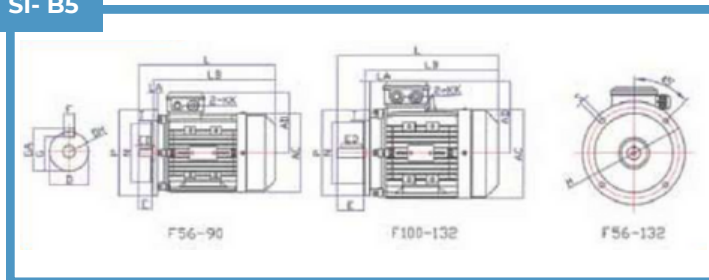
*Note :
 1. IFL = Full Load Current ; IST = Locked Rotor Current ; TFL = Full Load Torque ; TST = Locked Rotor Torque ; TM = Maximum Torque
 2. Tolerance according to IEC 60034-1
 3. The data above is based on 400V design, 380V and 415V data is the reference value.
 4. Data subject to change without notice



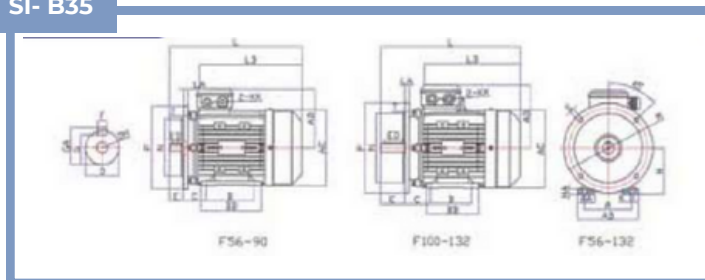
SI - B3



SI- B5



SI- B35



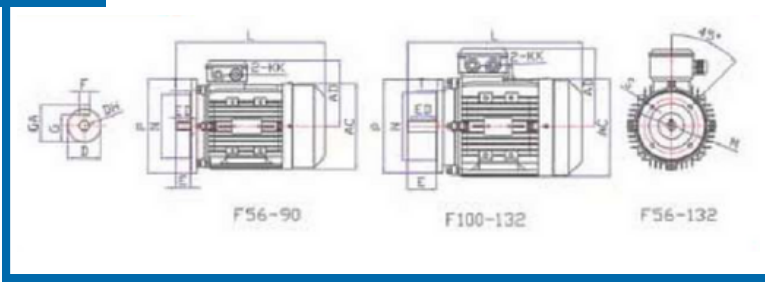
SI B3, B5, B35 Mounting and Overall Dimensions

Frame size	Overall Dimensions																
	A	AB	AC	AD	B	C	D	DH	E	F	G	H	K	KK	L	M	N
56	90	112	115	104	71	36	9	M3X10	20	3	7.2	56	5.8	1-M16X1.5	198	98	80
63	100	120	127	110	80	40	11	M4X10	23	4	8.5	63	7	1-M16X1.5	225	115	95
71	112	135	145	119	90	45	14	M5X12	30	5	11	71	7	1-M20X1.5	255	130	110
80	125	155	165	138	100	50	19	M6X16	40	6	15.5	80	10	1-M20X1.5	295	165	130
90S	140	175	180	145	100	56	24	M8X19	50	8	20	90	10	1-M20X1.5	331	165	130
90L	140	175	180	145	125	56	24	M8X19	50	8	20	90	10	1-M20X1.5	361	165	130
100L	160	200	200	155	140	63	28	M10X22	60	8	24	100	12	1-M20X1.5	392	215	180
112M	190	230	222	171	140	70	28	M10X22	60	8	24	112	12	2-M25X1.5	406	215	180
132S	216	260	260	191	140	89	38	M12X28	80	10	33	132	12	2-M25X1.5	473	265	230

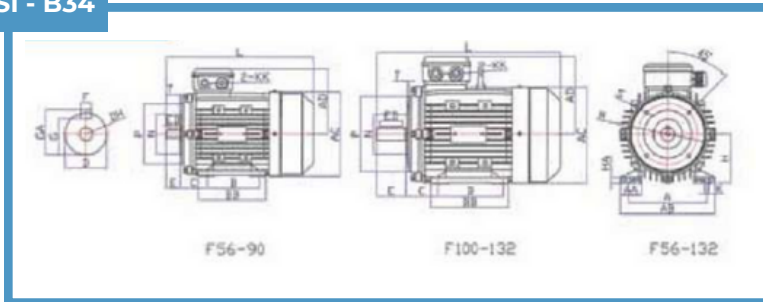
Frame size	Overall Dimensions									
	P	S	T	GA	AA	BB	ED	HA	LA	LB
56	120	7	3.0	10.0	20	89	11	5.5	8	175
63	140	10	3.0	12.5	27	103	13	6.0	8	207
71	160	10	3.5	16.0	28	105	20	9.0	8	220
80	200	12	3.5	21.5	40	130	25	9.0	10	260
90S	200	12	3.5	27.0	45	130	40	11.0	12	270
90L	200	12	3.5	27.0	45	155	40	11.0	2	295
100L	250	15	4.0	31.0	50	176	45	14.0	14	330
112M	250	15	4.0	31.0	55	180	45	14.0	14	345
132S	300	15	4.0	41.0	58	176	63	15.0	16	375
132M	300	15	4.0	41.0	58	214	63	15.0	16	410

*Note:
Data are subject to revisions without any prior notice

SI- B14



SI - B34



SI B14, B34 Mounting and Overall Dimensions

Frame Size	Overall Dimensions														
	A	AB	AC	AD	B	C	D	DH	E	F	G	H	K	KK	L
56	90	112	115	104	71	36	9	M3X10	20	3	7.2	56	5.8	1-M16X1.5	198
63	100	120	127	110	80	40	11	M4X10	23	4	8.5	63	7	1-M16X1.5	225
71	112	135	145	119	90	45	14	M5X12	30	5	11.0	71	7	1-M20X1.5	255
80	125	155	165	138	100	so	19	M6X16	40	6	15.5	80	10	1-M20X1.5	295
90S	140	175	180	145	100	56	24	M8X19	50	8	20.0	90	10	1-M20X1.5	331
90L	140	175	180	145	125	56	24	M8X19	50	8	20.0	90	10	1-M20X1.5	361
100L	160	200	200	155	140	63	28	M10X22	60	8	24.0	100	12	1-M20X1.5	392
112M	190	230	222	171	140	70	28	M10X22	60	8	24.0	112	12	2-M25X1.5	406
132S	16	260	260	191	140	89	38	M12X28	80	10	33.0	132	12	2-M25X1.5	473
132M	216	260	260	191	178	89	38	M12X28	80	10	33.0	132	12	2-M25X1.5	505

Frame Size	Overall Dimensions									
	M	N	P	S	T	GA	AA	BB	ED	HA
56	65	50	80	M5	2.5	10.0	20	89	11	5.5
63	75	60	90	M5	2.5	12.5	27	103	13	6.0
71	85	70	105	M6	2.5	16.0	28	105	20	9.0
80	100	80	120	M6	3.0	21.5	40	130	25	9.0
90S	115	95	140	M8	3.0	27.0	45	130	40	11.0
90L	115	95	140	M8	3.0	27.0	45	155	40	11.0
100L	130	110	160	M8	3.5	31.0	50	176	45	14.0
112M	130	110	160	M8	3.5	31.0	55	180	45	14.0
132S	165	130	200	M10	4.0	41.0	58	176	63	15.0
132M	165	130	200	M10	4.0	41.0	58	214	63	15.0

*Note:
Data subject to revisions without any prior notice



CI Performance Data 50Hz

Synchronous speed (2Pole/3000RPM, 4Pole/1500RPM, 6Pole/1000RPM, 8Pole/750RPM)

Rated Power		Po1e	Frame Size	Rated Speed (RPM)	IF1 380V(A)	IF1 400V(A)	IF1 415V(A)	Power Factor COSø	Efficiency n %	IST IFL (Time)	TFL (Nm)	TST	TM	Weight (Kg)
KW	HP											TFL (Time)	TFL (Time)	
0.18	0.25	6	71-1	850	0.74	0.7	0.67	0.66	45.5	4.0	2.0	1.9	2.0	14
		8	80-1	630	0.88	0.84	0.81	0.61	38.0	2.9	2.8	2.0	2.2	17
0.25	0.33	4	71-1	1360	0.72	0.68	0.66	0.76	61.5	3.7	1.8	2.4	2.6	14
		6	71-2	850	0.95	0.9	0.87	0.68	52.1	4.0	2.8	1.9	2.0	15
0.37	0.5	8	80-2	640	1.15	1.09	1.05	0.61	43.4	3.0	3.7	2.1	2.4	19
		2	71-1	2750	1.02	0.97	0.93	0.78	70.0	4.3	1.3	2.2	2.4	14
		4	71-2	1345	1.11	1.11	1.02	0.74	71.3	3.7	2.6	2.4	2.5	14
0.55	0.75	6	80-1	890	1.3	1.23	1.19	0.7	62.5	4.4	4.0	1.9	2.3	17
		8	90S	660	1.48	1.41	1.36	0.61	62.2	3.4	5.4	2.0	2.2	23
		2	71-2	2760	1.49	1.42	1.36	0.79	69.0	4.9	1.9	2.5	2.6	14
0.75	1.0	4	80-1	1390	1.6	1.5	1.43	0.75	70.0	5.5	3.8	2.2	2.4	15
		6	80-2	890	1.79	1.7	1.64	0.72	65.8	4.5	5.9	2.1	2.4	18
		8	90L	660	2.16	2.05	1.98	0.61	56.1	3.5	8.0	2.1	2.3	25
1.1	1.5	2	80-1	2840	1.8	1.7	1.67	0.83	72.1	5.5	2.5	2.3	2.6	16
		4	80-2	1390	2.1	2.0	1.9	0.76	72.1	5.6	5.2	2.2	2.4	16
		6	90S	910	2.29	2.18	2.1	0.72	70.0	4.1	7.9	2.3	2.7	22
1.5	2.0	8	100L-1	690	2.41	2.29	2.21	0.67	61.2	3.5	10.4	2.0	2.2	33
		2	80-2	2840	2.6	2.5	2.4	0.84	75.0	5.6	3.7	2.3	2.6	17
		4	90S	1400	2.9	2.8	2.7	0.77	75.0	5.4	7.5	2.2	2.5	22
2.2	3.0	6	90L	910	3.18	3.02	2.91	0.73	72.6	4.6	11.5	2.3	2.7	25
		8	100L-2	690	3.35	3.18	3.07	0.69	66.5	3.6	15.2	2.2	2.4	38
		2	90S	2850	3.4	3.2	3.1	0.85	77.2	6.1	5.0	2.5	2.9	22
3.0	4.0	4	90L	1400	3.8	3.6	3.5	0.78	77.2	5.2	10.2	2.4	2.6	25
		6	100L	920	4.1	3.9	3.8	0.75	75.2	5.0	15.6	2.4	2.8	33
		8	112M	690	4.4	4.2	4.0	0.7	70.2	3.9	20.8	2.4	2.6	42
3.7	5.0	2	90L	2850	4.8	4.6	4.4	0.85	79.7	6.1	7.4	2.7	2.9	25
		4	100L-1	1420	5.1	4.8	4.7	0.81	79.7	6.0	14.8	2.3	2.6	33
		6	112M	940	5.57	5.29	5.1	0.76	77.7	5.2	22.4	2.1	2.5	42
4.0	5.5	8	132S	710	5.9	5.6	5.4	0.71	74.2	4.3	29.6	2.3	2.5	63
		2	100L	2880	6.3	6.0	5.8	0.87	81.5	6.5	10.0	2.7	2.9	33
		4	100L-2	1420	6.8	6.5	6.2	0.82	81.5	6.1	20.2	2.3	2.7	37
5.5	7.5	6	132S	960	7.4	7.0	6.8	0.76	79.7	5.6	29.9	1.9	2.5	63
		8	132M	710	7.8	7.4	7.1	0.73	77.0	4.4	40.4	2.2	2.4	72
		2	112M	2880	7.7	7.3	7.0	0.88	83.1	6.5	12.3	2.6	2.9	43
7.5	10.0	4	112M	1440	8.14	7.77	7.49	0.82	83.1	6.5	26.5	2.3	2.8	43
		6	132M-1	960	9.0	8.51	8.23	0.76	81.4	6.2	39.8	2.1	2.7	72
		8	160M-1	720	9.4	9.0	8.6	0.73	79.2	4.4	53.1	2.2	2.5	104
11.0	15.0	2	112M	2880	8.3	7.9	7.6	0.88	83.1	6.5	13.3	2.6	2.9	43
		4	112M	1440	8.8	8.4	8.1	0.82	83.1	6.5	26.5	2.3	2.8	43
		6	132M-1	960	9.75	9.26	8.93	0.76	81.4	6.2	39.8	2.1	2.7	72
15.0	20.0	8	160M-1	720	10.2	9.7	9.3	0.73	79.2	4.4	53.1	2.2	2.5	104
		2	132S-1	2900	11.1	10.5	10.2	0.88	84.7	6.9	18.1	2.3	2.6	64
		4	132S	1440	11.7	11.1	10.7	0.83	84.7	6.8	36.5	2.3	2.9	70
15.0	20.0	6	132M-2	960	12.8	12.2	11.7	0.77	83.1	6.5	54.7	2.3	2.8	81
		8	160M-2	720	13.6	12.9	12.5	0.74	81.4	5.0	73.0	2.2	2.4	115
		2	132S-2	2900	14.9	14.2	13.5	0.88	86.0	6.9	24.5	2.5	2.8	70
15.0	20.0	4	132M	1440	15.6	14.8	14.3	0.84	86.0	6.5	49.8	2.4	3.0	78
		6	160M	970	17.1	16.2	15.7	0.77	84.7	5.6	73.9	2.0	2.6	114
		8	160L	720	17.7	16.8	16.2	0.75	83.1	5.7	99.5	2.1	2.3	132
15.0	20.0	2	160M-1	2930	21.1	20.1	19.4	0.89	87.6	6.7	35.8	2.6	2.9	117
		4	160M	1460	22.5	21.4	20.6	0.84	87.6	6.9	72.0	2.3	2.9	123
		6	160L	970	24.5	23.3	22.4	0.78	86.4	5.8	108.0	2.1	2.4	138
15.0	20.0	8	180L	730	25.4	24.1	23.3	0.75	85.0	5.6	144.0	2.3	2.5	171
		2	160M-2	2930	28.6	27.2	26.2	0.89	88.7	6.7	48.8	2.6	2.9	125
		4	160L	1460	30.3	28.8	27.7	0.85	88.7	6.8	98.2	2.3	2.9	144
15.0	20.0	6	180L	970	31.6	30.0	28.9	0.81	87.7	5.7	148.0	2.0	2.4	175
		8	200L	730	34.0	32.3	31.1	0.76	86.2	5.5	196.0	2.1	2.4	239

*Note :
 1. IFL = Full Load Current ; IST = Locked Rotor Current ; TFL = Full Load Torque ; TST = Locked Rotor Torque ; TM = Maximum Torque
 2. Tolerance according to IEC 60034-1
 3. The data above is based on 400V design, 380V and 415V data is the reference value.
 4. Data subject to change without notice

CI Performance Data 50Hz

Synchronous speed (2Pole/3000RPM, 4Pole/1500RPM, 6Pole/1000RPM, 8Pole/750RPM)

Rated Power		PoLe	Frame Size	Rated Speed (RPM)	IF1 380V (A)	IF1 400V (A)	IF1 415V (A)	Power Factor COS ϕ	Efficiency n %	IST	TF1 (Nm)	TST	TM	Weight (kg)
KW	HP									IF1 (Time)		TF1 (Time)	TF1 (Time)	
18.5	25	2	160L	2930	34.6	32.9	31.8	0.9	89.3	6.8	60.4	2.5	2.8	147
		4	180M	1470	36.2	34.4	33.1	0.86	89.3	6.4	120.2	2.3	2.9	182
		6	200L-1	970	38.5	36.6	35.3	0.81	88.6	6.7	182.0	2.2	2.8	240
		8	225S	730	41.0	39.0	37.5	0.76	86.9	5.6	242.0	2.2	2.6	271
22	30	2	180M	2940	41.0	38.9	37.6	0.9	89.9	6.6	71.4	2.6	2.8	180
		4	180L	1470	42.9	40.8	39.3	0.86	89.9	6.9	143.0	2.3	2.9	190
		6	200L-2	970	44.7	42.5	40.9	0.83	89.2	6.6	217.0	2.3	2.9	250
		8	225M	740	47.2	44.8	43.2	0.78	87.4	5.4	284.0	2.1	2.4	299
30	40	2	200L-1	2950	55.4	52.6	50.7	0.9	90.7	6.5	97.2	2.5	2.7	240
		4	200L	1470	57.5	54.6	52.7	0.86	90.7	6.8	195.0	2.4	2.9	270
		6	225M	980	59.3	56.3	54.3	0.84	90.2	6.8	293.0	2.2	2.7	314
		8	250M	740	63.3	60.1	58.0	0.79	88.2	5.3	387.3	2.2	2.5	406
37	50	2	200L-2	2950	67.9	64.5	62.2	0.9	91.2	6.5	119.8	2.4	2.6	255
		4	225S	1480	69.7	66.2	63.8	0.87	91.2	6.5	238.9	2.2	2.7	318
		6	250M	980	70.1	66.6	64.2	0.86	90.8	6.2	361.0	2.0	2.5	420
		8	280S	740	77.5	73.6	71.0	0.79	88.8	5.6	477.7	2.3	2.7	507
45	60	2	225M	2970	82.1	78.0	75.3	0.9	91.7	6.8	145.0	2.4	2.6	342
		4	225M	1480	84.5	80.3	77.4	0.87	91.7	6.3	290.5	2.3	2.5	351
		6	280S	980	86.0	81.7	78.7	0.86	91.4	6.1	438.0	1.9	2.5	505
		8	280M	740	94.1	89.4	86.2	0.79	89.2	5.2	581.0	2.1	2.8	549
55	75	2	250M	2970	99.6	94.6	91.3	0.9	92.1	6.8	177.0	2.5	2.8	444
		4	250M	1480	103.0	97.9	94.3	0.87	92.1	6.4	355.1	2.2	2.5	468
		6	280M	985	105.0	99.8	96.1	0.86	91.9	6.7	536.0	2.1	2.7	552
		8	315S	740	110.8	105.3	101.5	0.81	89.7	5.7	710.0	1.9	2.5	860
75	100	2	280S	2970	134.8	128.1	123.5	0.9	92.7	6.7	241.0	2.4	2.7	544
		4	280S	1480	138.1	131.2	126.5	0.88	92.7	6.8	484.0	2.1	2.8	562
		6	315S	990	142.0	134.9	130.0	0.86	92.6	6.5	724.0	2.0	2.7	880
		8	315M	740	150.1	142.6	137.4	0.81	90.3	5.9	968.3	2.1	2.8	960
90	125	2	280M	2970	159.5	151.5	146.1	0.91	93.0	6.7	290.0	2.4	2.7	606
		4	280M	1480	165.0	157.0	151.0	0.88	93.0	6.9	581.0	2.2	2.7	667
		6	315M	990	170.0	161.5	155.7	0.86	92.9	6.2	869.0	2.0	2.6	1020
		8	315L-1	740	177.4	168.5	162.4	0.82	90.7	6.2	1162.0	2.3	2.9	1100
110	150	2	315S	2980	194.6	184.9	178.2	0.91	93.3	6.6	353.0	2.0	2.5	980
		4	315S	1480	200.5	190.5	183.6	0.88	93.3	6.5	710.0	1.9	2.7	1000
		6	315L-1	990	206.0	196.0	189.0	0.86	93.3	6.0	1062.0	1.9	2.7	1100
		8	315L-2	740	216.0	206.0	198.0	0.82	91.1	6.0	1420.0	2.2	2.8	1202
132	180	2	315M	2980	233.0	221.4	213.4	0.91	93.5	6.6	423.0	2.1	2.5	1080
		4	315M	1480	240.0	228.0	220.0	0.88	93.5	6.8	852.0	2.3	3.2	1100
		6	315L-2	990	244.0	232.0	223.0	0.87	93.5	5.8	1274.0	2.0	2.7	1170
		8	355M-1	740	259.0	246.0	237.0	0.82	91.5	5.0	1704.0	1.9	2.2	1595
160	215	2	315L-1	2980	282.1	270.0	258.4	0.91	93.8	6.7	513.0	1.9	2.4	1160
		4	315L-1	1480	287.0	273.0	263.0	0.89	93.8	6.6	1032.0	2.6	3.0	1160
		6	355M-1	990	291.0	275.0	267.0	0.87	93.8	7.1	1544.0	2.3	3.0	1580
		8	355M-2	740	315.0	298.0	292.0	0.81	91.9	5.3	2066.0	2.0	2.3	1760
200	270	2	315L-2	2980	347.7	330.1	318.4	0.92	94.0	6.7	641.0	1.9	2.4	1190
		4	315L-2	1480	358.0	340.1	327.8	0.89	94.0	6.4	1290.0	2.2	2.8	1270
		6	355M-2	990	361.0	342.0	330.0	0.88	94.0	7.1	1930.0	2.3	2.9	1720
		8	355L	740	393.0	370.0	361.0	0.82	92.5	5.4	2582.0	2.1	2.3	1967
250	340	2	355M-2	2980	429.0	408.0	393.0	0.92	94.0	5.7	802.0	1.7	2.4	1758
		4	355M	1490	440.0	420.0	403.0	0.9	94.0	6.1	1603.0	1.9	2.3	1698
		6	355L	990	448.0	425.0	409.0	0.89	94.0	6.6	2413.0	2.2	2.6	1770
315	430	2	355L-2	2980	537.0	510.0	491.0	0.93	94.0	5.5	1010.0	1.6	2.3	1848
		4	355L	1490	554.0	521.0	506.0	0.9	94.0	6.4	2020.0	2.2	2.4	1848

*Note :
 1. IFL = Full Load Current ; IST = Locked Rotor Current ; TFL = Full Load Torque ; TST = Locked Rotor Torque ; TM = Maximum Torque
 2. Tolerance according to IEC 60034-1
 3. The data above is based on 400V design, 380V and 415V data is the reference value.
 4. Data subject to change without notice



CI Performance Data 60Hz

Synchronous speed (2Pole/3600RPM, 4Pole/1800RPM, 6Pole/1200RPM, 8Pole/900RPM)

Rated Power		Po1e	Frame Size	Rated Speed (RPM)	IF1 380V (A)	IF1 400V (A)	IF1 415V (A)	Power Factor COSφ	Efficiency n %	IST IF1 (Time)	TF1 (Nm)	TST		TM	Weight (Kg)	
KW	HP											TF1 (Time)	TF1 (Time)			
0.18	0.25	6	71-1	1020	0.64	0.61	0.59	0.66	52.5	4.0	1.7	1.9	2.0	14		
		8	80-1	756	0.76	0.73	0.7	0.61	40.0	2.9	2.3	2.0	2.2	17		
0.25	0.33	4	71-1	1632	0.62	0.59	0.57	0.76	68.0	3.7	1.5	2.4	2.6	14		
		6	71-2	1020	0.82	0.78	0.75	0.68	57.5	4.0	2.3	1.9	2.0	15		
0.37	0.5	8	80-2	768	0.99	0.95	0.91	0.61	50.5	3.0	3.1	2.1	2.4	19		
		2	71-1	3300	0.84	0.8	0.77	0.86	70.0	4.3	1.1	2.2	2.4	14		
		4	71-2	1614	0.96	0.92	0.88	0.77	70.0	3.7	2.2	2.4	2.5	14		
		6	80-1	1068	1.12	1.07	1.03	0.7	62.0	4.4	3.3	1.9	2.3	17		
0.55	0.75	8	90S	792	1.28	1.22	1.17	0.61	57.5	3.4	4.5	2.0	2.2	23		
		2	71-2	3312	1.29	1.23	1.18	0.89	72.0	4.9	1.6	2.5	2.6	14		
		4	80-1	1686	1.38	1.32	1.27	0.75	74.0	5.5	3.1	2.2	2.4	15		
		6	80-2	1068	1.55	1.48	1.42	0.72	66.0	4.5	4.9	2.1	2.4	18		
0.75	1	8	90L	792	1.87	1.78	1.71	0.61	59.5	3.5	6.6	2.1	2.3	25		
		2	80-1	3406	1.55	1.49	1.43	0.85	74.0	5.5	2.1	2.3	2.6	16		
		4	80-2	1698	1.81	1.73	1.66	0.76	77.0	5.6	4.2	2.2	2.4	16		
		6	90S	1092	1.98	1.89	1.81	0.72	72.0	4.1	6.6	2.3	2.7	22		
1.1	1.5	8	100L-1	828	2.08	1.99	1.91	0.67	64.0	3.5	8.7	2.0	2.2	33		
		2	80-2	3412	2.25	2.15	2.06	0.84	78.5	5.6	3.1	2.3	2.6	17		
		4	90S	1687	2.5	2.4	2.3	0.8	79.0	5.4	6.2	2.2	2.5	22		
		6	90L	1092	2.75	2.63	2.52	0.73	75.0	4.6	9.6	2.3	2.7	25		
1.5	2	8	100L-2	828	2.89	2.77	2.65	0.69	73.5	3.6	12.7	2.2	2.4	38		
		2	90S	3418	2.94	2.81	2.69	0.86	81.0	6.1	4.2	2.5	2.9	22		
		4	90L	1692	3.28	3.14	3.01	0.79	81.5	5.2	8.5	2.4	2.6	25		
		6	100L	1128	3.54	3.39	3.25	0.75	77.0	5.0	12.7	2.4	2.8	33		
2.2	3	8	112M	816	3.8	3.63	3.48	0.69	77.0	3.9	17.6	2.4	2.6	42		
		2	90L	3419	4.15	3.97	3.8	0.86	81.5	6.1	6.2	2.7	2.9	25		
		4	100L-1	1680	4.4	4.21	4.04	0.83	83.0	6.0	12.5	2.3	2.6	33		
		6	112M	1128	4.81	4.6	4.41	0.76	78.5	5.2	18.6	2.1	2.5	42		
3	4	8	132S	852	5.1	4.87	4.67	0.71	78.0	4.3	24.7	2.3	2.5	63		
		2	100L	3433	5.44	5.2	4.99	0.89	84.5	6.5	8.4	2.7	2.9	33		
		4	100L-2	1699	5.87	5.62	5.38	0.82	85.0	6.1	16.9	2.3	2.7	37		
		6	132S	1152	6.39	6.11	5.86	0.76	83.5	5.6	24.9	1.9	2.5	63		
3.7	5	8	132M	852	6.74	6.44	6.18	0.73	80.0	4.4	33.6	2.2	2.4	72		
		2	112M	3444	6.65	6.36	6.1	0.88	84.5	6.5	10.3	2.6	2.9	43		
		4	112M	1716	7.03	6.72	6.44	0.82	85.0	6.5	20.6	2.3	2.8	43		
		6	132M-1	1152	7.77	7.43	7.13	0.76	83.5	6.2	30.7	2.1	2.7	72		
4	5.5	8	160M-1	864	8.12	7.77	7.44	0.73	80.0	4.4	40.9	2.2	2.5	104		
		2	112M	3446	7.17	6.86	6.57	0.92	84.5	6.5	11.1	2.6	2.9	43		
		4	112M	1726	7.6	7.27	6.97	0.84	85.0	6.5	22.1	2.3	2.8	43		
		6	132M-1	1152	8.42	8.05	7.72	0.76	83.5	6.2	33.2	2.1	2.7	72		
5.5	7.5	8	160M-1	864	8.81	8.43	8.08	0.73	80.0	4.4	44.2	2.2	2.5	104		
		2	132S-1	3480	9.59	9.17	8.79	0.91	86.0	6.9	15.1	2.3	2.6	64		
		4	132S	1746	10.1	9.67	9.26	0.83	87.0	6.8	30.1	2.3	2.9	70		
		6	132M-2	1152	11.05	10.57	10.13	0.77	85.0	6.5	45.6	2.3	2.8	81		
7.5	10	8	160M-2	864	11.75	11.23	10.77	0.74	84.0	5.0	60.8	2.2	2.4	115		
		2	132S-2	3498	12.87	12.31	11.8	0.9	87.5	6.9	20.5	2.5	2.8	70		
		4	132M	1738	13.47	12.89	12.35	0.86	87.5	6.5	41.2	2.4	3.0	78		
		6	160M	1164	14.77	14.13	13.54	0.77	86.0	5.6	61.6	2.0	2.6	114		
11	15	8	160L	864	15.29	14.62	14.01	0.75	85.0	5.7	82.9	2.1	2.3	132		
		2	160M-1	3520	18.22	17.43	16.7	0.9	87.5	6.7	29.9	2.6	2.9	117		
		4	160M	1752	19.43	18.59	17.81	0.84	88.5	6.9	60.0	2.3	2.9	123		
		6	160L	1164	21.16	20.24	19.4	0.78	89.0	5.8	90.3	2.1	2.4	138		
15	20	8	180L	876	21.94	20.98	20.11	0.76	87.5	5.6	120.0	2.3	2.5	171		
		2	160M-2	3521	24.7	23.63	22.64	0.9	88.5	6.7	40.7	2.6	2.9	125		
		4	160L	1754	26.17	25.03	23.99	0.85	89.5	6.8	81.7	2.3	2.9	144		
		6	180L	1164	27.29	26.1	25.02	0.81	89.5	5.7	123.1	2.0	2.4	175		
				8	200L	876	29.36	28.09	26.92	0.76	88.5	5.5	163.6	2.1	2.4	239

*Note:
 1. IFL = Full Load Current ; IST = Locked Rotor Current ; TFL = Full Load Torque ; TST = Locked Rotor Torque ; TM = Maximum Torque
 2. Tolerance according to IEC 60034-1
 3. The data above is based on 400V design, 380V and 415V data is the reference value.
 4. Data subject to change without notice

CI Performance Data 60Hz

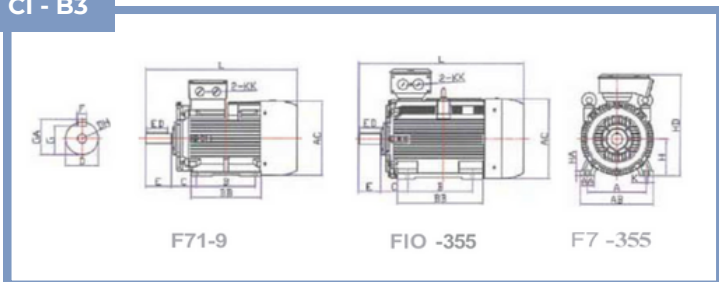
Synchronous speed (2Pole/3600RPM, 4Pole/1800RPM, 6Pole/1200RPM, 8Pole/900RPM)

Rated Power		Pole	Frame Size	Rated Speed (RPM)	IFL 440V (A)	IFL 460V (A)	IFL 480V (A)	Power Factor COS ϕ	Efficiency η %	IST	TFL (Nm)	TST	TM	Weight (Kg)
KW	HP													
18.5	25	2	160L	3516	29.88	28.58	27.39	0.9	91.7	6.8	50.3	2.5	2.8	147
		4	180M	1764	31.26	29.9	28.66	0.88	90.3	6.4	100.2	2.3	2.9	182
		6	200L-1	1164	33.25	31.8	30.48	0.81	90.0	6.7	151.9	2.2	2.8	240
		8	225S	876	35.41	33.87	32.46	0.76	90.0	5.6	201.8	2.2	2.6	271
22	30	2	180M	3528	35.41	33.87	32.46	0.9	90.6	6.6	59.6	2.6	2.8	180
		4	180L	1764	37.05	35.44	33.96	0.88	91.3	6.9	119.2	2.3	2.9	190
		6	200L-2	1164	38.6	36.93	35.39	0.83	90.0	6.6	180.6	2.3	2.9	250
		8	225M	880	40.76	38.99	37.37	0.78	90.5	5.4	238.9	2.1	2.4	299
30	40	2	200L-1	3540	47.85	45.77	43.86	0.89	92.0	6.5	81.0	2.5	2.7	240
		4	200L	1764	49.66	47.5	45.52	0.89	92.1	6.8	162.5	2.4	2.9	270
		6	225M	1176	51.21	48.99	46.95	0.84	91.5	6.8	243.8	2.2	2.7	314
		8	250M	888	54.67	52.29	50.11	0.79	91.0	5.3	322.8	2.2	2.5	406
37	50	2	200L-2	3540	58.64	56.09	53.75	0.91	92.3	6.5	99.9	2.4	2.6	255
		4	225S	1476	60.2	57.58	55.18	0.89	92.4	6.5	239.5	2.2	2.7	318
		6	250M	1176	60.54	57.91	55.50	0.86	92.0	6.2	300.6	2.0	2.5	420
		8	280S	888	66.93	64.02	61.35	0.82	91.7	5.6	398.1	2.3	2.7	507
45	60	2	225M	3564	70.9	67.82	65.00	0.9	93.0	6.8	120.6	2.4	2.6	342
		4	225M	1776	72.98	69.8	66.90	0.89	92.7	6.3	242.1	2.3	2.5	351
		6	280S	1176	74.27	71.04	68.08	0.87	92.5	6.1	365.6	1.9	2.5	505
		8	280M	888	81.27	77.73	74.50	0.81	91.8	5.2	484.2	2.1	2.8	549
55	75	2	250M	3564	86.02	82.28	78.85	0.89	93.2	6.8	147.5	2.5	2.8	444
		4	250M	1776	88.95	85.09	81.54	0.88	93.0	6.4	295.9	2.2	2.5	468
		6	280M	1182	90.68	86.74	83.13	0.88	92.6	6.7	444.6	2.1	2.7	552
		8	315S	888	95.69	91.53	87.72	0.82	93.6	5.7	591.8	1.9	2.5	860
75	100	2	280S	3564	116.42	111.36	106.72	0.91	93.7	6.7	201.7	2.4	2.7	544
		4	280S	1776	119.27	114.08	109.33	0.9	93.7	6.8	403.5	2.1	2.8	562
		6	315S	1188	122.64	117.3	112.42	0.86	94.4	6.5	603.2	2.0	2.7	880
		8	315M	888	129.63	124.0	118.83	0.83	93.9	5.9	807.0	2.1	2.8	960
90	125	2	280M	3564	137.75	131.76	126.27	0.91	94.1	6.7	241.3	2.4	2.7	606
		4	280M	1776	142.5	136.3	130.63	0.89	94.2	6.9	484.2	2.2	2.7	667
		6	315M	1188	146.82	140.43	134.58	0.86	94.9	6.2	723.9	2.0	2.6	1020
		8	315L-1	888	153.21	146.55	140.44	0.83	94.1	6.2	968.4	2.3	2.9	1100
110	150	2	315S	3576	168.06	160.76	154.06	0.92	94.5	6.6	293.9	2.0	2.5	980
		4	315S	1776	173.16	165.63	158.73	0.89	95.3	6.5	591.8	1.9	2.7	1000
		6	315L-1	1188	177.91	170.17	163.08	0.86	94.9	6.0	884.7	1.9	2.7	1100
		8	315L-2	888	186.55	178.43	171.00	0.82	94.2	6.0	1183.6	2.2	2.8	1202
132	180	2	315M	3576	201.23	192.48	184.46	0.92	94.9	6.6	352.7	2.1	2.5	1080
		4	315M	1776	207.27	198.26	190.00	0.88	95.6	6.8	710.2	2.3	3.2	1100
		6	315L-2	1188	210.73	201.57	193.17	0.87	95.0	5.8	1061.7	2.0	2.7	1170
		8	355M-1	888	223.68	213.96	205.04	0.84	95.3	5.0	1420.3	1.9	2.2	1595
160	215	2	315L-1	3576	243.63	233.04	223.33	0.92	95.6	6.7	427.5	1.9	2.4	1160
		4	315L-1	1776	247.86	237.09	227.21	0.89	95.6	6.6	860.8	2.6	3.0	1160
		6	355M-1	1188	251.32	240.39	230.38	0.88	95.2	7.1	1286.9	2.3	3.0	1580
		8	355M-2	888	272.05	260.22	249.38	0.83	95.3	5.3	1721.6	2.0	2.3	1760
200	270	2	315L-2	3576	300.29	287.23	275.26	0.92	95.4	6.7	534.4	1.9	2.4	1190
		4	315L-2	1776	309.18	295.74	283.42	0.89	95.8	6.4	1076.0	2.2	2.8	1270
		6	355M-2	1188	311.77	298.22	285.79	0.89	96.1	7.1	1608.6	2.3	2.9	1720
		8	355L	888	339.41	324.65	311.13	0.85	95.7	5.4	2152.0	2.1	2.3	1967
250	340	2	355M-2	3576	370.5	354.39	339.63	0.93	95.3	5.7	668.0	1.7	2.4	1758
		4	355M	1788	380	363.48	348.33	0.9	95.5	6.1	1336.0	1.9	2.3	1698
		6	355L	1188	386.91	370.09	354.67	0.9	96.3	6.6	2010.7	2.2	2.6	1770
315	430	2	355L-2	3576	463.77	443.61	425.13	0.93	95.8	5.5	841.7	1.6	2.3	1848
		4	355L	1788	478.45	457.65	438.58	0.92	95.6	6.4	1683.3	2.2	2.4	1848

*Note :
 1. IFL = Full Load Current ; IST = Locked Rotor Current ; TFL = Full Load Torque ; TST = Locked Rotor Torque ; TM = Maximum Torque
 2. Tolerance according to IEC 60034-1
 3. The data above is based on 400V design, 380V and 415V data is the reference value.
 4. Data subject to change without notice



CI - B3

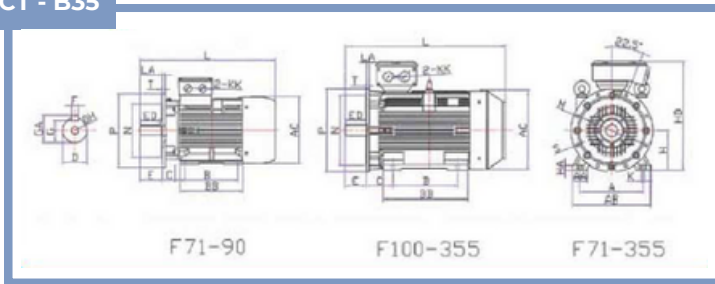


CI B3 Foot Mounting Dimensions

F#71~90 without lifting bolt

Frame Size	Poles	Mounting Dimensions (mm)									Overall Dimensions (mm)										
		A	B	C	D	E	F	G	h	K	AA	AB	AC	BB	KK	ED	Dh	GA	hA	hD	l
71	2,4,6	112	90	45	14j6	30	5	11	71	7	32	144	145	120	M20X1.5	20	M4X10	16	8	208	250
80	2,4,6,8	125	100	50	19j6	40	6	15.5	80	10	34	160	175	130	M25X1.5	25	M6X16	21.5	10	210	295
90S	2,4,6,8	140	100	56	24j6	50	8	20	90	10	36	180	190	160	M25X1.5	40	M8X19	27	12.5	230	345
90L	2,4,6,8	140	125	56	24j6	50	8	20	90	10	36	180	190	160	M25X1.5	40	M8X19	27	12.5	230	345
100	2,4,6,8	160	140	63	28j6	60	8	24	100	12	40	200	215	182	M25X1.5	45	M10X22	31	14	265	385
112	2,4,6,8	190	140	70	28j6	60	8	24	112	12	45	230	236	195	M32X1.5	45	M10X22	31	14	287	405
132S	2,4,6,8	216	140	89	38k6	80	10	33	132	12	52	265	275	245	M32X1.5	63	M12X28	41	16	330	515
132M	2,4,6,8	216	178	89	38k6	80	10	33	132	12	52	265	275	245	M32X1.5	63	M12X28	41	16	330	515
160M	2,4,6,8	254	210	108	42k6	110	12	37	160	14.5	67	320	330	260	M40X1.5	90	M16X36	45	19	410	610
160L	2,4,6,8	254	254	108	42k6	110	12	37	160	14.5	67	320	330	305	M40X1.5	90	M16X36	45	19	410	655
180M	2,4,6,8	279	241	121	48k6	110	14	42.5	180	14.5	74	350	380	297	M40X1.5	90	M16X36	51.5	22	455	685
180L	2,4,6,8	279	279	121	48k6	110	14	42.5	180	14.5	74	350	380	335	M40X1.5	90	M16X36	51.5	22	455	720
200	2,4,6,8	318	305	133	55m6	110	16	49	200	18.5	85	395	420	370	M50X1.5	90	M20X42	59	25	524	770
225S	4,6,8	356	286	149	60m6	140	18	53	225	18.5	80	436	465	355	M50X1.5	110	M20X42	64	28	560	825
225M	2	356	311	149	55m6	110	16	49	225	18.5	80	436	465	380	M50X1.5	90	M20X42	59	28	560	850
225M	4,6,8	356	311	149	60m6	140	18	53	225	18.5	80	436	465	380	M50X1.5	110	M20X42	64	28	560	850
250M	2	406	349	168	60m6	140	18	53	250	24	88	495	520	440	M63X 1.5	110	M20X42	64	33	625	935
250M	4,6,8	406	349	168	65m6	140	18	58	250	24	88	495	520	440	M63X 1.5	110	M20X42	69	33	625	935
280S	2	457	368	190	65m6	140	18	58	280	24	109	550	570	535	M63X 1.5	110	M20X42	69	35	685	1010
280S	4,6,8	457	368	190	75m6	140	20	67.5	280	24	109	550	570	535	M63X 1.5	110	M20X42	79.5	35	685	1010
280M	2	457	419	190	65m6	140	18	58	280	24	109	550	570	535	M63X 1.5	110	M20X42	69	35	685	1010
280M	4,6,8	457	419	190	75m6	140	20	67.5	280	24	109	550	570	535	M63X 1.5	110	M20X42	79.5	35	685	1010
315S	2	508	406	216	65m6	140	18	58	315	28	120	635	650	565	M63X 1.5	110	M20X42	69	45	870	1180
315S	4,6,8	508	406	216	80m6	170	22	71	315	28	120	635	650	565	M63X 1.5	140	M20X42	85	45	870	1210
315M	2	508	457	216	65m6	140	18	58	315	28	120	635	650	675	M63X 1.5	110	M20X42	69	45	870	1290
315M	4,6,8	508	457	216	80m6	170	22	71	315	28	120	635	650	675	M63X 1.5	140	M20X42	85	45	870	1320
315L	2	508	508	216	65m6	140	18	58	315	28	120	635	650	675	M63X 1.5	110	M20X42	69	45	870	1290
315L	4,6,8	508	508	216	80m6	170	22	71	315	28	120	635	650	675	M63X 1.5	140	M20X42	85	45	870	1320
355M	2	610	560	254	75m6	140	20	67.5	355	28	125	735	735	775	M63X 1.5	110	M24X50	79.5	49	995	1490
355M	4,6,8	610	560	254	95m6	170	25	86	355	28	125	735	735	775	M63X 1.5	140	M24X50	100	49	995	1520
355L	2	610	630	254	75m6	140	20	67.5	355	28	125	735	735	775	M63X 1.5	110	M24X50	79.5	49	995	1490
355L	4,6,8	610	630	254	95m6	170	25	86	355	28	125	735	735	775	M63X 1.5	140	M24X50	100	49	995	1520

CT - B35



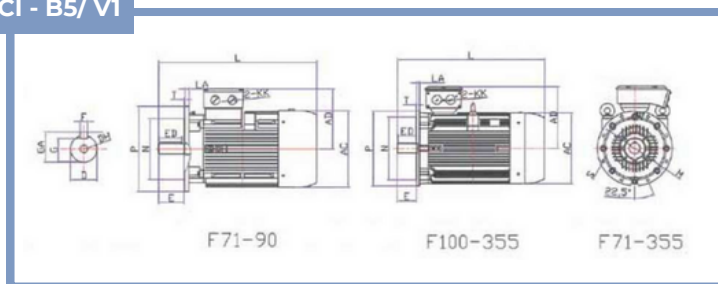
CT B35 Foot Mounting Dimensions

F#71~90 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
71	2,4,6	112	90	45	14j6	30	5	11	71	7	130	110	160	4-29	3.5	32	144	145	8	M20XL5	120	20	M4X10	16	8	208	250
80	2.4.6.8	125	100	50	19j6	40	6	15.5	80	10	165	130	200	4012	3.5	34	160	175	12	M25XL1.5	130	25	M6X16	21.5	10	210	295
90S	2.4.6.8	140	100	56	24j6	50	8	20	90	10	165	130	200	4012	3.5	36	180	190	12	M25XL1.5	160	40	M8X19	27	12.5	230	345
90L	2,4,6,8	140	125	56	24j6	50	8	20	90	10	165	130	200	4012	3.5	36	180	190	12	M25XL1.5	160	40	M8X19	27	12.5	230	345
100	2,4,6,8	160	140	63	28j6	60	8	24	100	12	215	130	250	4-0145	4	40	200	215	14	M25XL1.5	182	45	M10X22	31	14	265	385
112	2,4,6,8	190	140	70	28j6	60	8	24	112	12	215	180	250	4-p14,5	4	45	230	236	14	M32XL1.5	195	45	M10X22	31	14	287	405
132S	2,4,6,8	216	140	89	38k6	80	10	33	132	12	265	180	300	4-014.5	4	52	265	275	14	M32XL1.5	245	63	M12X28	41	16	330	515
132M	2,4,6,8	216	178	89	38k6	80	10	33	132	12	265	230	300	4014.5	4	52	265	275	14	M32XL1.5	245	63	M12X28	41	16	330	515
160M	2,4,6,8	254	210	108	42k6	110	12	37	160	14.5	300	230	350	4-018.5	5	67	320	330	15	M40XL1.5	260	90	M16X36	45	19	410	610
160L	2,4,6,8	254	254	108	42k6	110	12	37	160	14.5	300	250	350	4-018.5	5	67	320	330	15	M40XL1.5	305	90	M16X36	45	19	410	655
180M	2,4,6,8	279	241	121	48k6	110	14	42.5	180	14.5	300	250	350	4-18.5	5	74	350	380	15	M40XL1.5	297	90	M16X36	51.5	22	455	685
180L	2,4,6,8	279	279	121	48k6	110	14	42.5	180	14.5	300	250	350	4-018.5	5	74	350	380	15	M40XL1.5	335	90	M16X36	51.5	22	455	720
200	2,4,6,8	318	305	133	55m6	110	16	49	200	18.5	350	250	400	4-818.5	5	85	395	420	17	M50XL1.5	370	90	M20X42	59	25	524	770
225S	4.6.8	356	286	149	60m6	140	18	53	225	18.5	400	300	450	8.018.5	5	80	436	465	19	M50XL1.5	355	110	M20X42	64	28	560	825
225M	2	356	311	149	55m6	110	16	49	225	18.5	400	350	450	8-18.5	5	80	436	465	19	M50XL1.5	380	90	M20X42	59	28	560	850
225M	4.6.8	356	311	149	60m6	140	18	53	225	18.5	400	350	450	8-18.5	5	80	436	465	19	M50XL1.5	380	110	M20X42	64	28	560	850
250M	2	406	349	168	60m6	140	18	53	250	24	500	450	550	8018.5	5	88	495	520	20	M63X 1.5	440	110	M20X42	64	33	625	935
250M	4.6.8	406	349	168	65m6	140	18	58	250	24	500	450	550	8-018,5	5	88	495	520	20	M63X 1.5	440	110	M20X42	69	33	625	935
280S	2	457	368	190	65m6	140	18	58	280	24	500	450	550	8-18.5	5	109	550	570	22	M63X 1.5	535	110	M20X42	69	35	685	1010
280S	4,6,8	457	368	190	75m6	140	20	67.5	280	24	500	450	550	8-18.5	5	109	550	570	22	M63X 1.5	535	110	M20X42	79.5	35	685	1010
280M	2	457	419	190	65m6	140	18	58	280	24	500	450	550	8-018.5	6	109	550	570	22	M63X 1.5	535	110	M20X42	69	35	685	1010
280M	4,6,8	457	419	190	75m6	140	20	67.5	280	24	500	450	550	8-918.5	6	109	550	570	22	M63X 1.5	535	110	M20X42	79.5	35	685	1010
315S	2	508	406	216	65m6	140	18	58	315	28	600	550	660	6-324	6	120	635	650	24	M63X 1.5	565	110	M20X42	69	45	870	1180
315S	4,6,8	508	406	216	80m6	170	22	71	315	28	600	550	660	8-924	6	120	635	650	24	M63X 1.5	565	140	M20X42	85	45	870	1210
315M	2	508	457	216	65m6	140	18	58	315	28	600	550	660	8-324	6	120	635	650	24	M63X 1.5	675	110	M20X42	69	45	870	1290
315M	4,6,8	508	457	216	80m6	170	22	71	315	28	600	550	660	8-024	6	120	635	650	24	M63X 1.5	675	140	M20X42	85	45	870	1320
315L	2	508	508	216	65m6	140	18	58	315	28	600	550	660	6-024	6	120	635	650	24	M63X 1.5	675	110	M20X42	69	45	870	1290
315L	4,6,8	508	508	216	80m6	170	22	71	315	28	600	550	660	8-024	6	120	635	650	24	M63X 1.5	675	140	M20X42	85	45	870	1320
355M	2	610	560	254	75m6	140	20	67.5	355	28	740	680	800	8-024	125	735	735	25	M63X 1.5	775	110	M24X50	79.5	49	995	1490	
355M	46.8	610	560	254	95m6	170	25	86	355	28	740	680	800	8-24	125	735	735	25	M63X 1.5	775	140	M24XSO	100	49	995	1520	
355L	2	610	630	254	75m6	140	20	67.5	355	28	740	680	800	8-024	125	735	735	25	M63X 1.5	775	110	M24X50	79.5	49	995	1490	
355L	4,6,8	610	630	254	95m6	170	25	86	355	28	740	680	800	8-024	125	735	735	25	M63X 1.5	775	140	M24X50	100	49	995	1520	



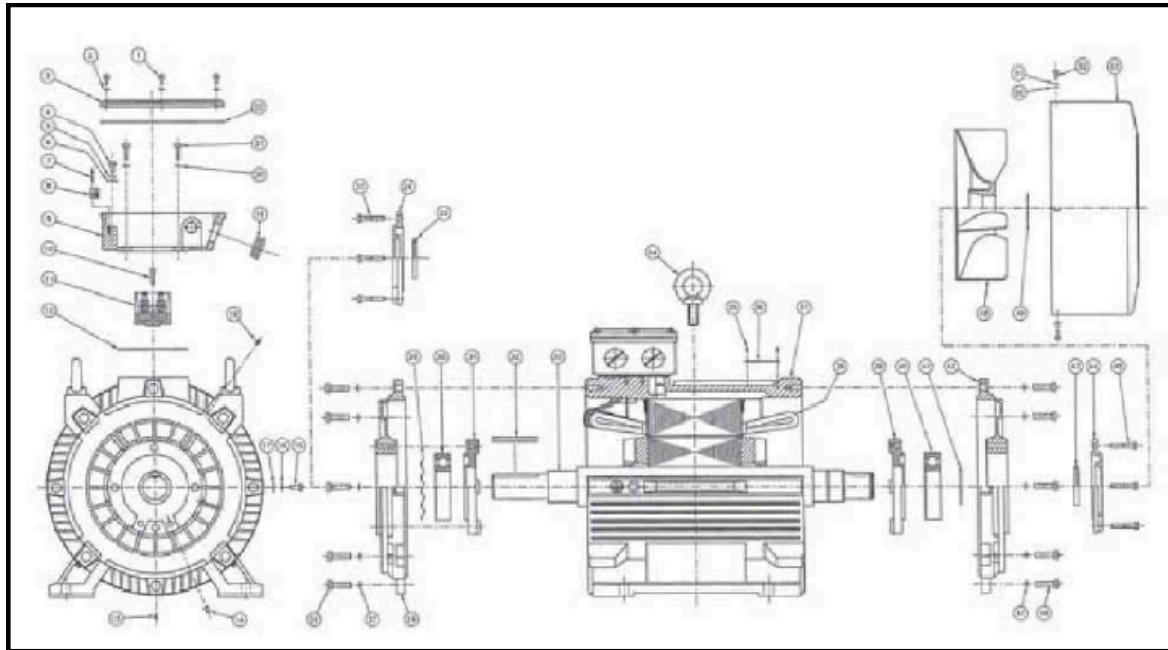
CI - B5/ V1



CI B5/V1 Flange Mounting Dimensions

F#7 I -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	IA	l
71	2,4,6	14j6	30	5	11	130	110	160	4-ø9	3.5	150	125	20	M20x1.5	M4X10	16	8	250
80	2,4,6,8	19j6	40	6	15.5	165	130	200	4-ø12	3.5	175	140	25	M25x1.5	M6X16	21.5	12	295
90S	2,4,6,8	24j6	50	8	20	165	130	200	4-ø12	3.5	190	150	40	M25x1.5	M8X19	27	12	320
90L	2,4,6,8	24j6	50	8	20	165	130	200	4-ø12	3.5	190	150	40	M25x1.5	M8X19	27	12	345
100	2,4,6,8	28j6	60	8	24	215	180	250	4-ø14.5	4	215	160	45	M25x1.5	M10X22	31	14	385
112	2,4,6,8	28j6	60	8	24	215	180	250	4-ø14.5	4	236	185	45	M32x1.5	M10X22	31	14	410
132S	2,4,6,8	38k6	80	10	33	265	230	300	4-ø14.5	4	275	205	63	M32x1.5	M12X28	41	14	480
132M	2,4,6,8	38k6	80	10	33	265	230	300	4-ø14.5	4	275	205	63	M32x1.5	M12X28	41	14	520
160M	2,4,6,8	42k6	110	12	37	300	250	350	4-ø14.5	5	330	250	90	M40x1.5	M16X36	45	15	610
160L	2,4,6,8	42k6	110	12	37	300	250	350	4-ø18.5	5	330	250	90	M40x1.5	M16X36	45	15	655
180M	2,4,6,8	48k6	110	14	42.5	300	250	350	4-ø18.5	5	380	270	90	M40x1.5	M16X36	51.5	15	680
180L	2,4,6,8	48k6	110	14	42.5	300	250	350	4-ø18.5	5	380	270	90	M40x1.5	M16X36	51.5	15	720
200	2,4,6,8	55m6	110	16	49	350	300	400	4-ø18.5	5	420	325	90	M50x1.5	M20X42	59	17	760
225S	4,6,8	60m6	140	18	53	400	350	450	8-ø18.5	5	465	335	110	M50x1.5	M20X42	64	19	825
225M	2	55m6	110	16	49	400	350	450	8-ø18.5	5	465	335	90	M50x1.5	M20X42	59	19	820
225M	4,6,8	60m6	140	18	53	400	350	450	8-ø18.5	5	465	335	110	M50x1.5	M20X42	64	19	850
250M	2	60m6	140	18	53	500	450	550	8-ø18.5	5	520	370	110	M63x 1.5	M20X42	64	20	925
250M	4,6,8	65m6	140	18	58	500	450	550	8-ø18.5	5	520	370	110	M63x 1.5	M20X42	69	20	925
280S	2	65m6	140	18	58	500	450	550	8-ø18.5	5	570	395	110	M63x 1.5	M20X42	69	22	960
280S	4,6,8	75m6	140	20	67.5	500	450	550	8-ø18.5	5	570	395	110	M63x 1.5	M20X42	79.5	22	975
280M	2	65m6	140	18	58	500	450	550	8-ø18.5	5	570	395	110	M63x 1.5	M20X42	69	22	1000
280M	4,6,8	75m6	140	20	67.5	500	450	550	8-ø18.5	5	570	395	110	M63x 1.5	M20X42	79.5	22	1015
315S	2	65m6	140	18	58	600	550	660	8-ø24	6	650	495	110	M63x 1.5	M20X42	69	24	1160
315S	4,6,8	80m6	170	22	71	600	550	660	8-ø24	6	650	495	140	M63x 1.5	M20X42	85	24	1190
315M	2	65m6	140	18	58	600	550	660	8-ø24	6	650	495	110	M63x 1.5	M20X42	69	24	1270
315M	4,6,8	80m6	170	22	71	600	550	660	8-ø24	6	650	495	140	M63x 1.5	M20X42	85	24	1300
315L	2	65m6	140	18	58	600	550	660	8-ø24	6	650	495	110	M63x 1.5	M20X42	69	24	1270
315L	4,6,8	80m6	170	22	71	600	550	660	8-ø24	6	650	495	140	M63x 1.5	M20X42	85	24	1300
355M	2	75m6	140	20	67.5	740	680	800	8-ø24	6	735	645	110	M63x 1.5	M24X50	79.5	25	1500
355M	4,6,8	95m6	170	25	86	740	680	800	8-ø24	6	735	645	140	M63x 1.5	M24X50	100	25	1530
355L	2	75m6	140	20	67.5	740	680	800	8-ø24	6	735	645	110	M63x 1.5	M24X50	79.5	25	1500
355L	4,6,8	95m6	170	25	86	740	680	800	8-ø24	6	735	645	140	M63x 1.5	M24X50	100	25	1530



Item	Description	Frame Sizes		
		63-90	100-132	160-355
1	Bolt for Terminal Box Lid	✓	✓	✓
2	Spring Washer	✓	✓	✓
3	Terminal Box Lid	✓	✓	✓
4	Earth Bolt - Terminal Box	✓	✓	✓
5	Flat Washer	✓	✓	✓
6	Bolt for Aux. Terminal Block	✓	✓	✓
7	Aux. Terminal Box	✓	✓	✓
8	Bolt for Terminal Board	✓	✓	✓
9	Terminal Board Assembly	✓	✓	✓
10	Gasket - Terminal Box	✓	✓	✓
11	Drain Plug			✓
12	Plug - Grease Exhaust			✓
13	Earth Bolt - Frame			✓
14	Grease Nipple			✓
15	Conduit Entry Plug	✓	✓	✓
16	Bolt for Outer B/Cap - de			✓
17	Outer Bearing Cap - de			✓
18	Oil Seal - de			✓
19	Bolt for Endshield - de	✓	✓	✓
20	Endshield - de	✓	✓	✓
21	Wave Washer			✓

Item	Description	Frame Sizes		
		63-90	100-132	160-355
22	Bearing - de	✓	✓	✓
23	Inner Bearing Cap - de			✓
24	Key	✓	✓	✓
25	Rotor Shaft	✓	✓	✓
26	Lifting Eye		✓	✓
27	Rivet - Nameplate	✓	✓	✓
28	Nameplate	✓	✓	✓
29	Frame	✓	✓	✓
30	Stator Winding	✓	✓	✓
31	Inner Bearing Cap - nde			✓
32	Bearing - nde	✓	✓	✓
33	Circlip - bearing	✓	✓	✓
34	Endshield - nde	✓	✓	✓
35	Oil Seal - nde	✓	✓	✓
36	Outer Bearing Cap - nde			✓
37	Bolt for Outer b/Cap -nde			✓
38	Bolt for Endshield - nde	✓	✓	✓
39	External Fan	✓	✓	✓
40	Circlip - Fan	✓	✓	✓
41	Bolt for Fan Cover	✓	✓	✓
42	Fan Cover	✓	✓	✓



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