



CE

Attt

Providing You Revolutionary Solutions

AT & CT Series



IE1

Three-Phase
TEFC
Induction Motors

Founded in 1981, **Att** Electric & Machinery is a premier induction motor manufacturer started up by a group of veterans determined to provide solutions for every customer's motoring needs. Our expertise in manufacturing tailor-made motors for usage under special conditions is an assurance of customizability coupled with high performance. Under the ever-changing market environment, we are committed to constant innovation, offering you top quality products and first-class customer service.

Att is a worldwide supplier of electrical motors, parts and services in the industrial equipment sector. Our clients include distributors, original equipment manufacturers and end users in more than 70 countries. Driven by your specific requirements, we guarantee original electrical and mechanical solutions at competitive prices, for numerous applications in various markets, such as industrial automation, construction, agricultural, electrical, engineering and consumer applications.

Headquartered in Singapore, **Att** currently has full-fledged associates and distributors in Malaysia, Indonesia, China, Vietnam, Sri Lanka, Hong Kong, Myanmar and the Middle East. We are rapidly expanding and consolidating a strong foothold in the global market. With excellent technical and organisational expertise, we will definitely be available to fulfil your expectations promptly, regardless of your location.



ATT's Standard AT series comprises of three-phase, Totally Enclosed Fan Cooled (TEFC), squirrel caged aluminium induction motors, with IEC frame sizes ranging from 63 to 132. AT motors are equipped with an added feature of a removable foot mount.



The CT series comprises of three-phase, Totally Enclosed Fan cooled (TEFC) cast-iron induction motors, with a wide IEC frame size range from 63 to 450. All standard ATT motors are highly efficient and all-purpose, suitable for general applications in machines such as fans, pumps, electric power packs and many more.

STANDARD SPECIFICATION AND FEATURES OF AN ATT MOTOR	
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 on line starting or star-delta starting
Mounting	Horizontal foot mounting, flange mounting : B3 ; B5 ; B14 ; B34 ; B35 ; V1
Stator insulation	Class F insulation; Class B temperature rise
Rotor winding	Squirrel cage, aluminum conductor with end-ring and waffer 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 life-lubricated bearings Motors of frame sizes 180 and above are fitted with open bearings and regreasing device
Painting	Phenolic rust-proof base plus lacquer surface finish; Painting in blue colour
Nameplate	Stainless steel or aluminium
Grounding terminal	Set inside the terminal box
Fan Cover	Pressed Steel
Lubrication	Lithium-base grease (Shell Alvania R3)

Motors can be customized in accordance to customers' requirements:

- | | | |
|---------------------------|---|---|
| 1. IP56 | 7. Corrosion-proof | 13. Grease relief for frames down to 100L |
| 2. IP66 | 8. PTC thermister for heater thermal protection | 14. Sun canopy |
| 3. Class H Insulation | 9. Anti-condensation heater | 15. Brake motor |
| 4. Multi-speed | 10. Special shaft extension | 16. TENV motors |
| 5. Special paint finished | 11. Inverter duty application | 17. Extend lead wire |
| 6. Special volt/hz | 12. Double ended shaft | 18. 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.

Diagram 2: Mounting Arrangements

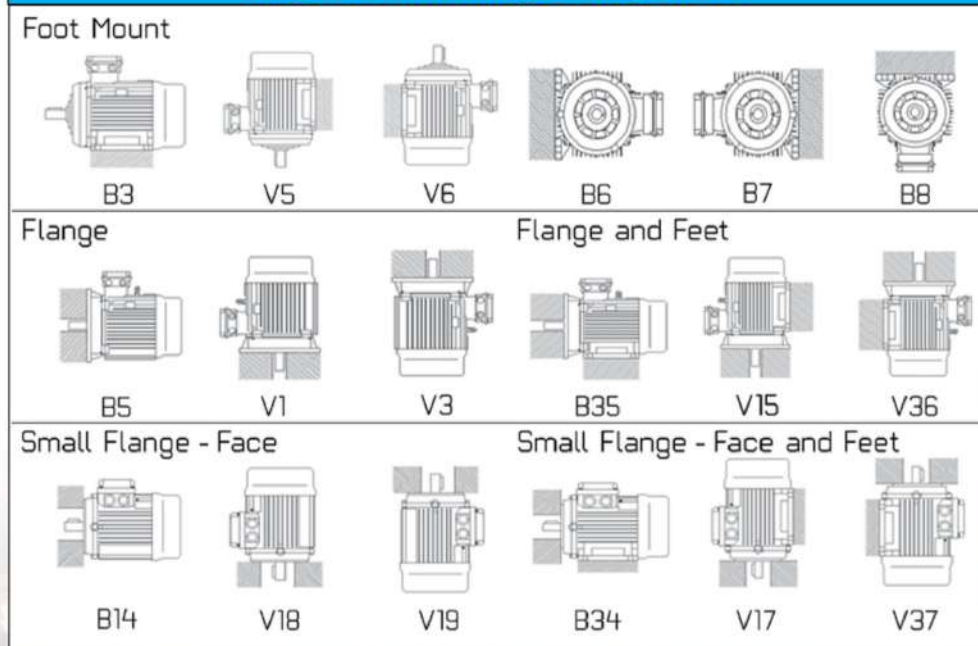
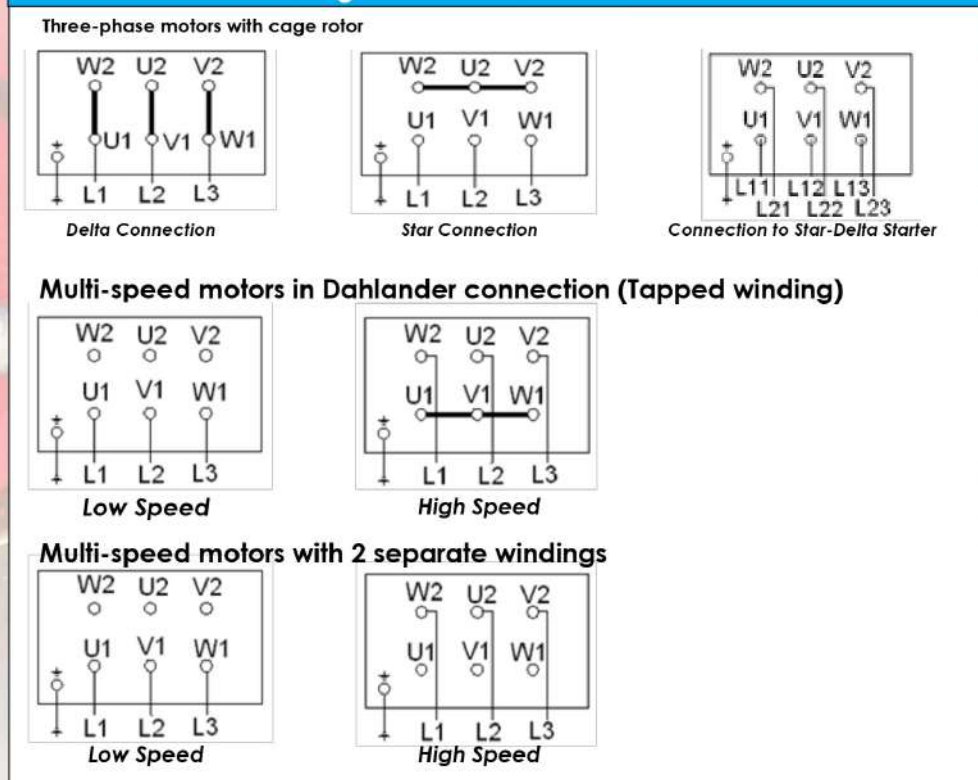


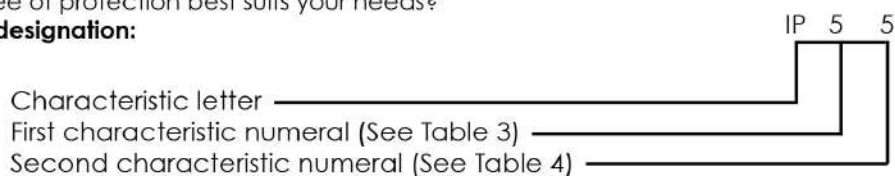
Diagram 3: Connection



All ATT motors comply to 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?

Example of designation:



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	
	Brief 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	
	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.

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 2P (Vertical)	6316C3	7316
315 4P-8P (Horizontal)	6319C3	6319C3
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

Table 6: Bearing Sizes

AT Performance Data 50Hz

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

Rated Power KW	Power HP	Pole	Frame Size	Rated Speed (RPM)	IFL	IFL	IFL	Power Factor COS ϕ	Efficiency n %	IST	TFL	TST	TM	Moment of Inertia (Kgm ²)	Weight (Kg)
					380V (A)	400V (A)	415V (A)			IFL (Time)	(Nm)	(Time)	(Time)		
0.06	0.08	4	56-1	1320	0.32	0.30	0.29	0.59	30.0	6.0	0.43	2.3	2.4	0.00006	3.0
0.09	0.12	2	56-1	2670	0.37	0.35	0.34	0.65	37.0	6.0	0.32	2.2	2.4	0.00005	2.8
		4	56-2	1320	0.45	0.43	0.41	0.61	42.0	6.0	0.65	2.3	2.4	0.00007	3.3
0.12	0.16	2	56-2	2730	0.42	0.40	0.39	0.69	45.0	6.0	0.42	2.2	2.4	0.00006	3.2
		4	63-1	1350	0.49	0.47	0.45	0.64	50.0	6.0	0.85	2.2	2.4	0.00012	3.9
0.18	0.25	2	63-1	2710	0.58	0.55	0.53	0.75	52.8	6.0	0.63	2.2	2.4	0.00010	4.0
		4	63-2	1350	0.72	0.68	0.66	0.65	57.0	6.0	1.27	2.2	2.4	0.00014	4.3
		6	71-1	880	0.74	0.70	0.67	0.66	45.5	4.0	1.95	1.6	1.7	0.00043	6.0
		8	80-1	680	0.88	0.84	0.81	0.61	38.0	2.8	2.53	1.5	1.7	0.00115	9.9
0.25	0.33	2	63-2	2710	0.75	0.71	0.68	0.78	58.2	6.0	0.88	2.2	2.4	0.00011	4.4
		4	71-1	1350	0.88	0.84	0.81	0.72	61.5	6.0	1.77	2.2	2.4	0.00042	5.4
		6	71-2	900	0.92	0.87	0.84	0.70	52.1	4.0	2.65	2.1	2.2	0.00047	6.5
		8	80-2	680	1.12	1.06	1.02	0.61	43.4	2.7	3.51	1.6	2.0	0.00126	10.9
0.37	0.5	2	71-1	2730	1.11	1.05	1.01	0.78	63.9	6.0	1.29	2.2	2.4	0.00035	5.6
		4	71-2	1370	1.17	1.11	1.07	0.74	66.0	6.0	2.58	2.2	2.4	0.00047	6.2
		6	80-1	900	1.29	1.23	1.19	0.70	59.7	4.0	3.93	1.9	1.9	0.00127	8.2
		8	90S	680	1.42	1.35	1.30	0.63	49.7	2.8	5.20	1.6	1.8	0.00316	14.8
0.55	0.75	2	71-2	2760	1.49	1.42	1.37	0.79	69.0	6.0	1.90	2.2	2.4	0.00040	6.1
		4	80-1	1370	1.66	1.58	1.52	0.75	70.0	6.0	3.84	2.2	2.4	0.00115	9.0
		6	80-2	900	1.74	1.65	1.59	0.72	65.8	4.0	5.84	2.0	2.3	0.00139	9.9
		8	90L	680	1.95	1.85	1.78	0.65	56.1	3.0	7.73	1.6	1.8	0.00379	17.2
0.75	1	2	80-1	2770	1.86	1.77	1.71	0.84	72.1	6.0	2.59	2.2	2.4	0.00092	9.1
		4	80-2	1380	2.03	1.93	1.86	0.78	72.1	6.0	5.19	2.2	2.4	0.00126	10.0
		6	90S	920	2.29	2.18	2.10	0.72	70.0	5.5	7.79	2.2	2.2	0.00316	11.7
		8	100LA	710	2.58	2.45	2.36	0.67	61.2	3.5	10.09	1.7	2.1	0.00431	17.5
1.1	1.5	2	80-2	2770	2.64	2.51	2.42	0.83	75.0	6.0	3.79	2.2	2.4	0.00099	10.2
		4	90S	1400	2.78	2.64	2.54	0.79	75.0	6.0	7.50	2.2	2.4	0.00276	12.1
		6	90L	925	3.18	3.02	2.91	0.73	72.9	5.5	11.36	2.2	2.2	0.00379	15.1
		8	100LB	710	3.37	3.20	3.08	0.69	66.5	3.5	14.80	1.7	2.1	0.00510	19.7
1.5	2	2	90S	2840	3.45	3.28	3.16	0.84	77.2	6.0	5.05	2.2	2.4	0.00246	12.0
		4	90L	1400	3.63	3.45	3.33	0.80	77.2	6.0	10.24	2.2	2.4	0.00328	14.6
		6	100L	945	4.05	3.85	3.71	0.76	75.2	6.0	15.17	2.2	2.2	0.00461	19.1
		8	112M	710	4.53	4.30	4.14	0.68	70.2	4.2	20.19	1.8	2.1	0.00695	25.6
2.2	3	2	90L	2840	4.85	4.61	4.44	0.85	79.7	6.0	7.40	2.2	2.4	0.00282	15.0
		4	100LA	1420	5.09	4.84	4.67	0.81	79.7	7.0	14.80	2.2	2.3	0.00542	21.0
		6	112M	955	5.64	5.36	5.17	0.76	77.7	6.0	22.00	2.2	2.2	0.00695	25.4
		8	132S	720	6.27	5.96	5.74	0.71	74.2	5.5	29.20	2.0	2.0	0.01291	35.5
3	4	2	100L	2840	6.35	6.03	5.81	0.87	81.5	7.0	10.10	2.2	2.3	0.00293	22.3
		4	100LB	1420	6.81	6.47	6.24	0.81	81.5	7.0	20.19	2.2	2.3	0.00670	24.7
		6	132S	960	7.59	7.21	6.95	0.76	79.7	6.5	29.86	2.0	2.0	0.01291	36.1
		8	132M	720	8.11	7.70	7.42	0.73	77.0	5.5	39.81	2.0	2.0	0.01608	45.0
3.7	5	2	112M	2880	7.68	7.30	7.04	0.87	83.1	7.5	12.30	2.2	2.3	0.00302	26.7
		4	112M	1430	8.04	7.64	7.36	0.83	83.1	7.0	24.72	2.2	2.2	0.00942	30.5
		6	132MA	960	9.19	8.73	8.41	0.76	81.4	6.5	36.83	2.0	2.0	0.01608	45.0
4	5.5	2	112M	2880	8.29	7.88	7.60	0.87	83.1	7.5	13.30	2.2	2.3	0.00302	26.7
		4	112M	1430	8.69	8.26	7.96	0.83	83.1	7.0	26.73	2.2	2.2	0.00942	30.5
		6	132MA	960	9.94	9.44	9.10	0.76	81.4	6.5	39.81	2.0	2.0	0.01608	45.0
5.5	7.5	2	132SA	2900	11.08	10.53	10.15	0.88	84.7	7.5	18.10	2.0	2.2	0.00650	38.5
		4	132S	1450	11.61	11.03	10.63	0.84	84.7	7.0	36.24	2.2	2.2	0.02950	40.4
		6	132MB	960	13.07	12.42	11.97	0.77	83.1	6.5	54.74	2.0	2.0	0.01917	55.5
7.5	10	2	132SB	2920	14.88	14.14	13.63	0.88	86.0	7.5	24.50	2.0	2.2	0.00784	42.2
		4	132M	1450	15.41	14.64	14.11	0.85	86.0	7.0	49.42	2.2	2.2	0.02960	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

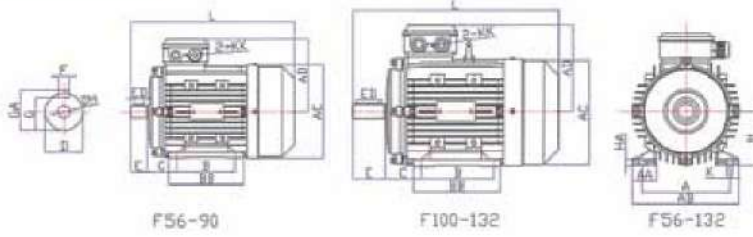
AT Performance Data 60Hz

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

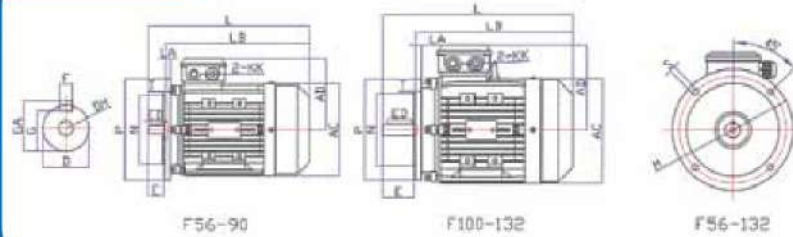
Rated KW	Power HP	Pole	Frame Size	Rated Speed (RPM)	IFL	IFL	IFL	Power Factor COS ϕ	Efficiency n %	IST	TFL (Nm)	TST	TM (Time)	Moment of Inertia (Kgm ²)	Weight (Kg)
					440V (A)	460V (A)	480V (A)			IFL (Time)		TFL (Time)			
0.06	0.08	4	56-1	1584	0.22	0.21	0.21	0.59	48.5	6.0	0.36	2.3	2.4	0.00006	3.0
0.09	0.12	2	56-1	3204	0.28	0.26	0.25	0.65	57.0	6.0	0.27	2.2	2.4	0.00005	2.8
		4	56-2	1584	0.30	0.29	0.28	0.61	50.0	6.0	0.54	2.3	2.4	0.00007	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	0.00006	3.2
		4	63-1	1620	0.41	0.40	0.38	0.64	62.0	6.0	0.71	2.2	2.4	0.00012	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	0.00010	4.0
		4	63-2	1644	0.64	0.61	0.59	0.65	66.0	6.0	1.05	2.2	2.4	0.00014	4.3
		6	71-1	1056	0.66	0.63	0.60	0.66	52.5	4.0	1.63	1.6	1.7	0.00043	6.0
		8	80-1	816	1.00	0.96	0.92	0.61	40.0	2.8	2.11	1.5	1.7	0.00115	9.9
0.25	0.33	2	63-2	3252	0.64	0.61	0.59	0.78	64.0	6.0	0.73	2.2	2.4	0.00011	4.4
		4	71-1	1620	0.73	0.70	0.67	0.72	68.0	6.0	1.47	2.2	2.4	0.00042	5.4
		6	71-2	1080	0.83	0.79	0.76	0.70	57.5	4.0	2.21	2.1	2.2	0.00047	6.5
		8	80-2	816	1.22	1.16	1.12	0.61	50.5	2.7	2.93	1.6	2.0	0.00126	10.9
0.37	0.5	2	71-1	3276	0.95	0.91	0.87	0.78	70.0	6.0	1.08	2.2	2.4	0.00035	5.6
		4	71-2	1644	1.09	1.04	1.00	0.74	70.0	6.0	2.15	2.2	2.4	0.00047	6.2
		6	80-1	1044	1.17	1.12	1.07	0.70	62.0	4.0	3.39	1.9	1.9	0.00127	8.2
		8	90S	816	1.49	1.43	1.37	0.63	57.5	2.8	4.33	1.6	1.8	0.00316	14.8
0.55	0.75	2	71-2	3312	1.30	1.24	1.19	0.79	72.0	6.0	1.59	2.2	2.4	0.00040	6.1
		4	80-1	1668	1.59	1.52	1.46	0.75	74.0	6.0	3.15	2.2	2.4	0.00115	9.0
		6	80-2	1080	1.90	1.82	1.74	0.72	66.0	4.0	4.87	2.0	2.3	0.00139	9.9
		8	90L	816	1.99	1.90	1.82	0.65	59.5	3.0	6.44	1.6	1.8	0.00379	17.2
0.75	1	2	80-1	3324	1.66	1.59	1.52	0.84	74.0	6.0	2.16	2.2	2.4	0.00092	9.1
		4	80-2	1656	1.81	1.73	1.66	0.78	77.0	6.0	4.33	2.2	2.4	0.00126	10.0
		6	90S	1104	2.07	1.98	1.90	0.72	72.0	5.5	6.49	2.2	2.2	0.00316	11.7
		8	100LA	852	2.16	2.07	1.98	0.67	64.0	3.5	8.41	1.7	2.1	0.00431	17.5
1.1	1.5	2	80-2	3324	2.33	2.23	2.14	0.83	78.5	6.0	3.16	2.2	2.4	0.00099	10.2
		4	90S	1680	2.66	2.54	2.44	0.79	79.0	6.0	6.26	2.2	2.4	0.00276	12.1
		6	90L	1110	2.94	2.81	2.69	0.73	75.0	5.5	9.47	2.2	2.2	0.00379	15.1
		8	100LB	852	3.28	3.14	3.01	0.69	73.5	3.5	12.34	1.7	2.1	0.00510	19.7
1.5	2	2	90S	3408	3.02	2.89	2.77	0.84	81.0	6.0	4.21	2.2	2.4	0.00246	12.0
		4	90L	1680	3.28	3.14	3.01	0.80	81.5	6.0	8.53	2.2	2.4	0.00328	14.6
		6	100L	1134	3.63	3.47	3.33	0.76	77.0	6.0	12.64	2.2	2.2	0.00461	19.1
		8	112M	852	4.40	4.21	4.04	0.68	77.0	4.2	16.82	1.8	2.1	0.00695	25.6
2.2	3	2	90L	3372	4.54	4.35	4.16	0.85	81.5	6.0	6.23	2.2	2.4	0.00282	15.0
		4	100LA	1716	4.65	4.44	4.26	0.81	83.0	7.0	12.25	2.2	2.3	0.00542	21.0
		6	112M	1146	5.01	4.79	4.59	0.76	78.5	6.0	18.34	2.2	2.2	0.00695	25.4
		8	132S	864	6.05	5.78	5.54	0.70	78.0	5.5	24.33	2.0	2.0	0.01291	35.5
3	4	2	100L	3408	5.61	5.37	5.15	0.86	84.5	7.0	8.41	2.2	2.3	0.00293	22.3
		4	100LB	1704	5.87	5.62	5.38	0.81	85.0	7.0	16.82	2.2	2.3	0.00670	24.7
		6	132S	1152	6.56	6.28	6.02	0.76	83.5	6.5	24.88	2.0	2.0	0.01291	36.1
		8	132M	864	6.91	6.61	6.33	0.74	80.0	5.5	33.18	2.0	2.0	0.01608	45.0
3.7	5	2	112M	3456	7.10	6.79	6.51	0.87	84.5	7.5	10.23	2.2	2.3	0.00302	26.7
		4	112M	1740	7.27	6.96	6.67	0.83	85.0	7.0	20.32	2.2	2.2	0.00942	30.5
		6	132MA	1152	8.55	8.18	7.84	0.73	83.5	6.5	30.69	2.0	2.0	0.01608	45.0
4	5.5	2	112M	3456	7.17	6.86	6.57	0.87	84.5	7.5	11.06	2.2	2.3	0.00302	26.7
		4	112M	1716	7.69	7.35	7.05	0.82	85.0	7.0	22.27	2.2	2.2	0.00942	30.5
		6	132MA	1152	8.64	8.26	7.92	0.76	83.5	6.5	33.18	2.0	2.0	0.01608	45.0
5.5	7.5	2	132SA	3480	9.67	9.25	8.87	0.88	86.0	7.5	15.10	2.0	2.2	0.00650	38.5
		4	132S	1728	10.00	9.57	9.17	0.84	87.0	7.0	30.14	2.2	2.2	0.02950	40.4
		6	132MB	1152	11.40	10.90	10.45	0.77	85.0	6.5	45.62	2.0	2.0	0.01917	55.5
7.5	10	2	132SB	3504	12.95	12.39	11.88	0.88	87.5	7.5	20.45	2.0	2.2	0.00784	42.2
		4	132M	1740	13.65	13.05	12.51	0.84	87.5	7.0	41.19	2.2	2.2	0.02960	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 50Hz 400V design, other data is the reference value.
 4. Data subject to change without notice

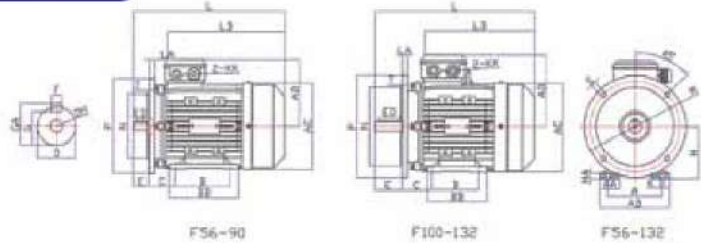
AT-B3



AT-B5



AT-B35



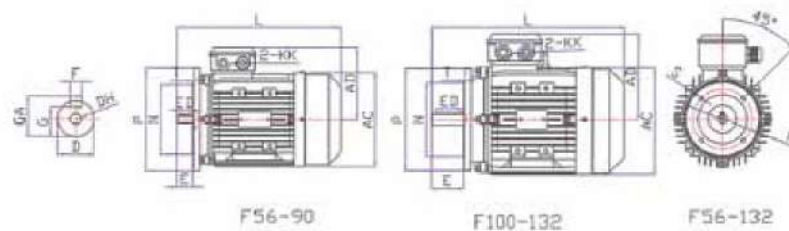
AT B3, B5, B35 Mounting and Overall Dimensions

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	11.0	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	20.0	90	10	1-M20X1.5	331	165	130
90L	140	175	180	145	125	56	24	M8X19	50	8	20.0	90	10	1-M20X1.5	361	165	130
100L	160	200	200	155	140	63	28	M10X22	60	8	24.0	100	12	1-M20X1.5	392	215	180
112M	190	230	222	171	140	70	28	M10X22	60	8	24.0	112	12	2-M25X1.5	406	215	180
132S	216	260	260	191	140	89	38	M12X28	80	10	33.0	132	12	2-M25X1.5	473	265	230

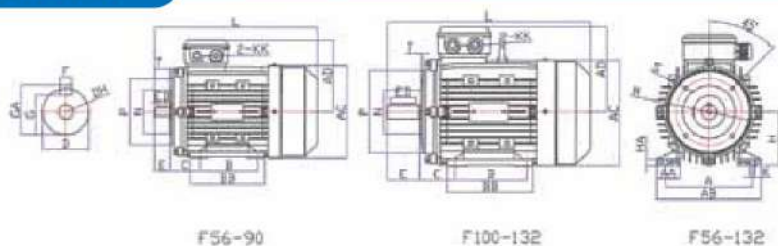
Frame Size	Overall Dimensions									
	P	S	T	GA	AA	BB	ED	HA	LA	LB
56	120	7	3.0	10.0	20	89	11	5.5	8	175
63	140	10	3.0	12.5	27	103	13	6.0	8	207
71	160	10	3.5	16.0	28	105	20	9.0	8	220
80	200	12	3.5	21.5	40	130	25	9.0	10	260
90S	200	12	3.5	27.0	45	130	40	11.0	12	270
90L	200	12	3.5	27.0	45	155	40	11.0	12	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

Data are subjected to revisions without any prior notice

AT-B14



AT-B34



AT 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	71	7	1-M20X1.5	255
80	125	155	165	138	100	50	19	M6X16	40	6	15.5	80	10	1-M20X1.5	295
90S	140	175	180	145	100	56	24	M8X19	50	8	20	90	10	1-M20X1.5	331
90L	140	175	180	145	125	56	24	M8X19	50	8	20	90	10	1-M20X1.5	361
100L	160	200	200	155	140	63	28	M10X22	60	8	24	100	12	1-M20X1.5	392
112M	190	230	222	171	140	70	28	M10X22	60	8	24	112	12	2-M25X1.5	406
132S	216	260	260	191	140	89	38	M12X28	80	10	33	132	12	2-M25X1.5	473
132M	216	260	260	191	178	89	38	M12X28	80	10	33	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	20	89	11	5.5
63	75	60	90	M5	2.5	12.5	27	103	13	6
71	85	70	105	M6	2.5	16	28	105	20	9
80	100	80	120	M6	3	21.5	40	130	25	9
90S	115	95	140	M8	3	27	45	130	40	11
90L	115	95	140	M8	3	27	45	155	40	11
100L	130	110	160	M8	3.5	31	50	176	45	14
112M	130	110	160	M8	3.5	31	55	180	45	14
132S	165	130	200	M10	4	41	58	176	63	15
132M	165	130	200	M10	4	41	58	214	63	15

Data are subjected to revisions without any prior notice.

CT Performance Data 50Hz

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

Rated Power KW	Power HP	Pole	Frame Size	Rated Speed (RPM)	IFL	IFL	IFL	Power Factor COSφ	Efficiency n %	IST	TFL	TST	TM	Moment of Inertia (Kgm ²)	Weight (Kg)
					380V (A)	400V (A)	415V (A)			IFL (Time)	(Nm)	(Time)	(Time)		
0.18	0.25	6	71-1	850	0.74	0.70	0.67	0.66	45.5	4.0	2.0	1.9	2.0	0.0009	14
		8	80-1	630	0.88	0.84	0.81	0.61	38.0	2.9	2.8	2.0	2.2	0.0020	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	0.0011	14
		6	71-2	850	0.95	0.90	0.87	0.68	52.1	4.0	2.8	1.9	2.0	0.0011	15
		8	80-2	640	1.15	1.09	1.05	0.61	43.4	3.0	3.7	2.1	2.4	0.0030	19
0.37	0.5	2	71-1	2750	1.02	0.97	0.93	0.78	70.0	4.3	1.3	2.2	2.4	0.0005	14
		4	71-2	1345	1.11	1.11	1.02	0.74	71.3	3.7	2.6	2.4	2.5	0.0012	14
		6	80-1	890	1.30	1.23	1.19	0.70	62.5	4.4	4.0	1.9	2.3	0.0015	17
		8	90S	660	1.48	1.41	1.36	0.61	62.2	3.4	5.4	2.0	2.2	0.0040	23
0.55	0.75	2	71-2	2760	1.49	1.42	1.36	0.79	69.0	4.9	1.9	2.5	2.6	0.0006	14
		4	80-1	1390	1.60	1.50	1.43	0.75	70.0	5.5	3.8	2.2	2.4	0.0020	15
		6	80-2	890	1.79	1.70	1.64	0.72	65.8	4.5	5.9	2.1	2.4	0.0030	18
		8	90L	660	2.16	2.05	1.98	0.61	56.1	3.5	8.0	2.1	2.3	0.0040	25
0.75	1	2	80-1	2840	1.80	1.70	1.67	0.83	72.1	5.5	2.5	2.3	2.6	0.0008	16
		4	80-2	1390	2.10	2.00	1.90	0.76	72.1	5.6	5.2	2.2	2.4	0.0020	16
		6	90S	910	2.29	2.18	2.10	0.72	70.0	4.1	7.9	2.3	2.7	0.0030	22
		8	100L-1	690	2.41	2.29	2.21	0.67	61.2	3.5	10.4	2.0	2.2	0.0080	33
1.1	1.5	2	80-2	2840	2.60	2.50	2.40	0.84	75.0	5.6	3.7	2.3	2.6	0.0009	17
		4	90S	1400	2.90	2.80	2.70	0.77	75.0	5.4	7.5	2.2	2.5	0.0021	22
		6	90L	910	3.18	3.02	2.91	0.73	72.9	4.6	11.5	2.3	2.7	0.0039	25
		8	100L-2	690	3.35	3.18	3.07	0.69	66.5	3.6	15.2	2.2	2.4	0.0100	38
1.5	2	2	90S	2850	3.40	3.20	3.10	0.85	77.2	6.1	5.0	2.5	2.9	0.0012	22
		4	90L	1400	3.80	3.60	3.50	0.78	77.2	5.2	10.2	2.4	2.6	0.0030	25
		6	100L	920	4.10	3.90	3.80	0.75	75.2	5.0	15.6	2.4	2.8	0.0070	33
		8	112M	690	4.40	4.20	4.00	0.70	70.2	3.9	20.8	2.4	2.6	0.0170	42
2.2	3	2	90L	2850	4.80	4.60	4.40	0.85	79.7	6.1	7.4	2.7	2.9	0.0014	25
		4	100L-1	1420	5.10	4.80	4.70	0.81	79.7	6.0	14.8	2.3	2.6	0.0070	33
		6	112M	940	5.57	5.29	5.10	0.76	77.7	5.2	22.4	2.1	2.5	0.0140	42
		8	132S	710	5.90	5.60	5.40	0.71	74.2	4.3	29.6	2.3	2.5	0.0310	63
3	4	2	100L	2880	6.30	6.00	5.80	0.87	81.5	6.5	10.0	2.7	2.9	0.0039	33
		4	100L-2	1420	6.80	6.50	6.20	0.82	81.5	6.1	20.2	2.3	2.7	0.0070	37
		6	132S	960	7.40	7.00	6.80	0.76	79.7	5.6	29.9	1.9	2.5	0.0290	63
		8	132M	710	7.80	7.40	7.10	0.73	77.0	4.4	40.4	2.2	2.4	0.0400	72
3.7	5	2	112M	2880	7.70	7.30	7.00	0.88	83.1	6.5	12.3	2.6	2.9	0.0055	43
		4	112M	1440	8.14	7.77	7.49	0.82	83.1	6.5	26.5	2.3	2.8	0.0095	43
		6	132M-1	960	9.00	8.51	8.23	0.76	81.4	6.2	39.8	2.1	2.7	0.0360	72
		8	160M-1	720	9.40	9.00	8.60	0.73	79.2	4.4	53.1	2.2	2.5	0.0750	104
4	5.5	2	112M	2880	8.30	7.90	7.60	0.88	83.1	6.5	13.3	2.6	2.9	0.0055	43
		4	112M	1440	8.80	8.40	8.10	0.82	83.1	6.5	26.5	2.3	2.8	0.0095	43
		6	132M-1	960	9.75	9.26	8.93	0.76	81.4	6.2	39.8	2.1	2.7	0.0360	72
		8	160M-1	720	10.20	9.70	9.30	0.73	79.2	4.4	53.1	2.2	2.5	0.0750	104
5.5	7.5	2	132S-1	2900	11.10	10.50	10.20	0.88	84.7	6.9	18.1	2.3	2.6	0.0109	64
		4	132S	1440	11.70	11.10	10.70	0.83	84.7	6.8	36.5	2.3	2.9	0.0214	70
		6	132M-2	960	12.80	12.20	11.70	0.77	83.1	6.5	54.7	2.3	2.8	0.0450	81
		8	160M-2	720	13.60	12.90	12.50	0.74	81.4	5.0	73.0	2.2	2.4	0.0930	115
7.5	10	2	132S-2	2900	14.90	14.20	13.50	0.88	86.0	6.9	24.5	2.5	2.8	0.0130	70
		4	132M	1440	15.60	14.80	14.30	0.84	86.0	6.5	49.8	2.4	3.0	0.0296	78
		6	160M	970	17.10	16.20	15.70	0.77	84.7	5.6	73.9	2.0	2.6	0.0880	114
		8	160L	720	17.70	16.80	16.20	0.75	83.1	5.7	99.5	2.1	2.3	0.1260	132
11	15	2	160M-1	2930	21.10	20.10	19.40	0.89	87.6	6.7	35.8	2.6	2.9	0.0380	117
		4	160M	1460	22.50	21.40	20.60	0.84	87.6	6.9	72.0	2.3	2.9	0.0750	123
		6	160L	970	24.50	23.30	22.40	0.78	86.4	5.8	108.0	2.1	2.4	0.1160	138
		8	180L	730	25.40	24.10	23.30	0.75	85.0	5.6	144.0	2.3	2.5	0.2030	171
15	20	2	160M-2	2930	28.60	27.20	26.20	0.89	88.7	6.7	48.8	2.6	2.9	0.0450	125
		4	160L	1460	30.30	28.80	27.70	0.85	88.7	6.8	98.2	2.3	2.9	0.0920	144
		6	180L	970	31.60	30.00	28.90	0.81	87.7	5.7	148.0	2.0	2.4	0.2070	175
		8	200L	730	34.00	32.30	31.10	0.76	86.2	5.5	196.0	2.1	2.4	0.3390	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

CT Performance Data 50Hz

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

Rated KW	Power HP	Pole	Frame Size	Rated Speed (RPM)	IFL	IFL	IFL	Power Factor COS ϕ	Efficiency n %	IST	TFL (Nm)	TST	TM	Moment of Inertia (Kg m^2)	Weight (Kg)
					380V (A)	400V (A)	415V (A)			IFL (Time)		TFL (Time)	TFL (Time)		
18.5	25	2	160L	2930	34.60	32.90	31.80	0.90	89.3	6.8	60.4	2.5	2.8	0.0550	147
		4	180M	1470	36.20	34.40	33.10	0.86	89.3	6.4	120.2	2.3	2.9	0.1390	182
		6	200L-1	970	38.50	36.60	35.30	0.81	88.6	6.7	182.0	2.2	2.8	0.3150	240
		8	225S	730	41.00	39.00	37.50	0.76	86.9	5.6	242.0	2.2	2.6	0.4910	271
22	30	2	180M	2940	41.00	38.90	37.60	0.90	89.9	6.6	71.4	2.6	2.8	0.0760	180
		4	180L	1470	42.90	40.80	39.30	0.86	89.9	6.9	143.0	2.3	2.9	0.1580	190
		6	200L-2	970	44.70	42.50	40.90	0.83	89.2	6.6	217.0	2.3	2.9	0.3600	250
		8	225M	740	47.20	44.80	43.20	0.78	87.4	5.4	284.0	2.1	2.4	0.5470	299
30	40	2	200L-1	2950	55.40	52.60	50.70	0.90	90.7	6.5	97.2	2.5	2.7	0.1240	240
		4	200L	1470	57.50	54.60	52.70	0.86	90.7	6.8	195.0	2.4	2.9	0.2620	270
		6	225M	980	59.30	56.30	54.30	0.84	90.2	6.8	293.0	2.2	2.7	0.5470	314
		8	250M	740	63.30	60.10	58.00	0.79	88.2	5.3	387.3	2.2	2.5	0.8300	406
37	50	2	200L-2	2950	67.90	64.50	62.20	0.90	91.2	6.5	119.8	2.4	2.6	0.1390	255
		4	225S	1480	69.70	66.20	63.80	0.87	91.2	6.5	238.9	2.2	2.7	0.4060	318
		6	250M	980	70.10	66.60	64.20	0.86	90.8	6.2	361.0	2.0	2.5	0.8340	420
		8	280S	740	77.50	73.60	71.00	0.79	88.8	5.6	477.7	2.3	2.7	1.3900	507
45	60	2	225M	2970	82.10	78.00	75.30	0.90	91.7	6.8	145.0	2.4	2.6	0.2330	342
		4	225M	1480	84.50	80.30	77.40	0.87	91.7	6.3	290.5	2.3	2.5	0.4690	351
		6	280S	980	86.00	81.70	78.70	0.86	91.4	6.1	438.0	1.9	2.5	1.3900	505
		8	280M	740	94.10	89.40	86.20	0.79	89.2	5.2	581.0	2.1	2.8	1.6500	549
55	75	2	250M	2970	99.60	94.60	91.30	0.90	92.1	6.8	177.0	2.5	2.8	0.3120	444
		4	250M	1480	103.00	97.90	94.30	0.87	92.1	6.4	355.1	2.2	2.5	0.6600	468
		6	280M	985	105.00	99.80	96.10	0.86	91.9	6.7	536.0	2.1	2.7	1.6500	552
		8	315S	740	110.80	105.30	101.50	0.81	89.7	5.7	710.0	1.9	2.5	4.7900	860
75	100	2	280S	2970	134.80	128.10	123.50	0.90	92.7	6.7	241.0	2.4	2.7	0.5970	544
		4	280S	1480	138.10	131.20	126.50	0.88	92.7	6.8	484.0	2.1	2.8	1.1200	562
		6	315S	990	142.00	134.90	130.00	0.86	92.6	6.5	724.0	2.0	2.7	4.1100	880
		8	315M	740	150.10	142.60	137.40	0.81	90.3	5.9	968.3	2.1	2.8	5.5800	960
90	125	2	280M	2970	159.50	151.50	146.10	0.91	93.0	6.7	290.0	2.4	2.7	0.6750	606
		4	280M	1480	165.00	157.00	151.00	0.88	93.0	6.9	581.0	2.2	2.7	1.4600	667
		6	315M	990	170.00	161.50	155.70	0.86	92.9	6.2	869.0	2.0	2.6	4.2800	1020
		8	315L-1	740	177.40	168.50	162.40	0.82	90.7	6.2	1162.0	2.3	2.9	6.3700	1100
110	150	2	315S	2980	194.60	184.90	178.20	0.91	93.3	6.6	353.0	2.0	2.5	1.1800	980
		4	315S	1480	200.50	190.50	183.60	0.88	93.3	6.5	710.0	1.9	2.7	3.1100	1000
		6	315L-1	990	206.00	196.00	189.00	0.86	93.3	6.0	1062.0	1.9	2.7	5.4500	1100
		8	315L-2	740	216.00	206.00	198.00	0.82	91.1	6.0	1420.0	2.2	2.8	7.2300	1202
132	180	2	315M	2980	233.00	221.40	213.40	0.91	93.5	6.6	423.0	2.1	2.5	1.5500	1080
		4	315M	1480	240.00	228.00	220.00	0.88	93.5	6.8	852.0	2.3	3.2	3.2900	1100
		6	315L-2	990	244.00	232.00	223.00	0.87	93.5	5.8	1274.0	2.0	2.7	6.1200	1170
		8	355M-1	740	259.00	246.00	237.00	0.82	91.5	5.0	1704.0	1.9	2.2	7.5500	1595
160	215	2	315L-1	2980	282.10	270.00	258.40	0.91	93.8	6.7	513.0	1.9	2.4	1.7600	1160
		4	315L-1	1480	287.00	273.00	263.00	0.89	93.8	6.6	1032.0	2.6	3.0	3.7900	1160
		6	355M-1	990	291.00	275.00	267.00	0.87	93.8	7.1	1544.0	2.3	3.0	8.8500	1580
		8	355M-2	740	315.00	298.00	292.00	0.81	91.9	5.3	2066.0	2.0	2.3	11.7300	1760
200	270	2	315L-2	2980	347.70	330.10	318.40	0.92	94.0	6.7	641.0	1.9	2.4	2.0200	1190
		4	315L-2	1480	358.00	340.10	327.80	0.89	94.0	6.4	1290.0	2.2	2.8	4.4900	1270
		6	355M-2	990	361.00	342.00	330.00	0.88	94.0	7.1	1930.0	2.3	2.9	9.5500	1720
		8	355L	740	393.00	370.00	361.00	0.82	92.5	5.4	2582.0	2.1	2.3	12.8600	1967
250	340	2	355M-2	2980	429.00	408.00	393.00	0.92	94.0	5.7	802.0	1.7	2.4	3.5600	1758
		4	355M	1490	440.00	420.00	403.00	0.90	94.0	6.1	1603.0	1.9	2.3	5.6700	1698
		6	355L	990	448.00	425.00	409.00	0.89	94.0	6.6	2413.0	2.2	2.6	10.3000	1770
315	430	2	355L-2	2980	537.00	510.00	491.00	0.93	94.0	5.5	1010.0	1.6	2.3	4.1000	1848
		4	355L	1490	554.00	521.00	506.00	0.90	94.0	6.4	2020.0	2.2	2.4	6.6600	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

CT Performance Data 60Hz

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

Rated KW	Power HP	Pole	Frame Size	Rated Speed (RPM)	IFL	IFL	IFL	Power Factor COSφ	Efficiency n %	IST	TFL	TST	TM	Moment of Inertia (Kgm ²)	Weight (Kg)
					440V (A)	460V (A)	480V (A)			IFL (Time)	(Nm)	(Time)	(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	0.001	14
		8	80-1	756	0.76	0.73	0.70	0.61	40.0	2.9	2.3	2.0	2.2	0.002	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	0.001	14
		6	71-2	1020	0.82	0.78	0.75	0.68	57.5	4.0	2.3	1.9	2.0	0.001	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	0.003	19
		2	71-1	3300	0.84	0.80	0.77	0.86	70.0	4.3	1.1	2.2	2.4	0.001	14
		4	71-2	1614	0.96	0.92	0.88	0.77	70.0	3.7	2.2	2.4	2.5	0.001	14
		6	80-1	1068	1.12	1.07	1.03	0.70	62.0	4.4	3.3	1.9	2.3	0.002	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	0.004	23
		2	71-2	3312	1.29	1.23	1.18	0.89	72.0	4.9	1.6	2.5	2.6	0.001	14
		4	80-1	1686	1.38	1.32	1.27	0.75	74.0	5.5	3.1	2.2	2.4	0.002	15
		6	80-2	1068	1.55	1.48	1.42	0.72	66.0	4.5	4.9	2.1	2.4	0.003	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	0.004	25
		2	80-1	3406	1.55	1.49	1.43	0.85	74.0	5.5	2.1	2.3	2.6	0.001	16
		4	80-2	1698	1.81	1.73	1.66	0.76	77.0	5.6	4.2	2.2	2.4	0.002	16
		6	90S	1092	1.98	1.89	1.81	0.72	72.0	4.1	6.6	2.3	2.7	0.003	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	0.008	33
		2	80-2	3412	2.25	2.15	2.06	0.84	78.5	5.6	3.1	2.3	2.6	0.001	17
		4	90S	1687	2.50	2.40	2.30	0.80	79.0	5.4	6.2	2.2	2.5	0.002	22
		6	90L	1092	2.75	2.63	2.52	0.73	75.0	4.6	9.6	2.3	2.7	0.004	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	0.010	38
		2	90S	3418	2.94	2.81	2.69	0.86	81.0	6.1	4.2	2.5	2.9	0.001	22
		4	90L	1692	3.28	3.14	3.01	0.79	81.5	5.2	8.5	2.4	2.6	0.003	25
		6	100L	1128	3.54	3.39	3.25	0.75	77.0	5.0	12.7	2.4	2.8	0.007	33
2.2	3	8	112M	816	3.80	3.63	3.48	0.69	77.0	3.9	17.6	2.4	2.6	0.017	42
		2	90L	3419	4.15	3.97	3.80	0.86	81.5	6.1	6.2	2.7	2.9	0.001	25
		4	100L-1	1680	4.40	4.21	4.04	0.83	83.0	6.0	12.5	2.3	2.6	0.007	33
		6	112M	1128	4.81	4.60	4.41	0.76	78.5	5.2	18.6	2.1	2.5	0.014	42
3	4	8	132S	852	5.10	4.87	4.67	0.71	78.0	4.3	24.7	2.3	2.5	0.031	63
		2	100L	3433	5.44	5.20	4.99	0.89	84.5	6.5	8.4	2.7	2.9	0.004	33
		4	100L-2	1699	5.87	5.62	5.38	0.82	85.0	6.1	16.9	2.3	2.7	0.007	37
		6	132S	1152	6.39	6.11	5.86	0.76	83.5	5.6	24.9	1.9	2.5	0.029	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	0.040	72
		2	112M	3444	6.65	6.36	6.10	0.88	84.5	6.5	10.3	2.6	2.9	0.006	43
		4	112M	1716	7.03	6.72	6.44	0.82	85.0	6.5	20.6	2.3	2.8	0.010	43
		6	132M-1	1152	7.77	7.43	7.13	0.76	83.5	6.2	30.7	2.1	2.7	0.036	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	0.075	104
		2	112M	3446	7.17	6.86	6.57	0.92	84.5	6.5	11.1	2.6	2.9	0.006	43
		4	112M	1726	7.60	7.27	6.97	0.84	85.0	6.5	22.1	2.3	2.8	0.010	43
		6	132M-1	1152	8.42	8.05	7.72	0.76	83.5	6.2	33.2	2.1	2.7	0.036	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	0.075	104
		2	132S-1	3480	9.59	9.17	8.79	0.91	86.0	6.9	15.1	2.3	2.6	0.011	64
		4	132S	1746	10.10	9.67	9.26	0.83	87.0	6.8	30.1	2.3	2.9	0.021	70
		6	132M-2	1152	11.05	10.57	10.13	0.77	85.0	6.5	45.6	2.3	2.8	0.045	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	0.093	115
		2	132S-2	3498	12.87	12.31	11.80	0.90	87.5	6.9	20.5	2.5	2.8	0.013	70
		4	132M	1738	13.47	12.89	12.35	0.86	87.5	6.5	41.2	2.4	3.0	0.030	78
		6	160M	1164	14.77	14.13	13.54	0.77	86.0	5.6	61.6	2.0	2.6	0.088	114
11	15	8	160L	864	15.29	14.62	14.01	0.75	85.0	5.7	82.9	2.1	2.3	0.126	132
		2	160M-1	3520	18.22	17.43	16.70	0.90	87.5	6.7	29.9	2.6	2.9	0.038	117
		4	160M	1752	19.43	18.59	17.81	0.84	88.5	6.9	60.0	2.3	2.9	0.075	123
		6	160L	1164	21.16	20.24	19.40	0.78	89.0	5.8	90.3	2.1	2.4	0.116	138
15	20	8	180L	876	21.94	20.98	20.11	0.76	87.5	5.6	120.0	2.3	2.5	0.203	171
		2	160M-2	3521	24.70	23.63	22.64	0.90	88.5	6.7	40.7	2.6	2.9	0.045	125
		4	160L	1754	26.17	25.03	23.99	0.85	89.5	6.8	81.7	2.3	2.9	0.092	144
		6	180L	1164	27.29	26.10	25.02	0.81	89.5	5.7	123.1	2.0	2.4	0.207	175
		8	200L	876	29.36	28.09	26.92	0.76	88.5	5.5	163.6	2.1	2.4	0.339	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 50Hz 400V design, other data is the reference value.
 4. Data subject to change without notice

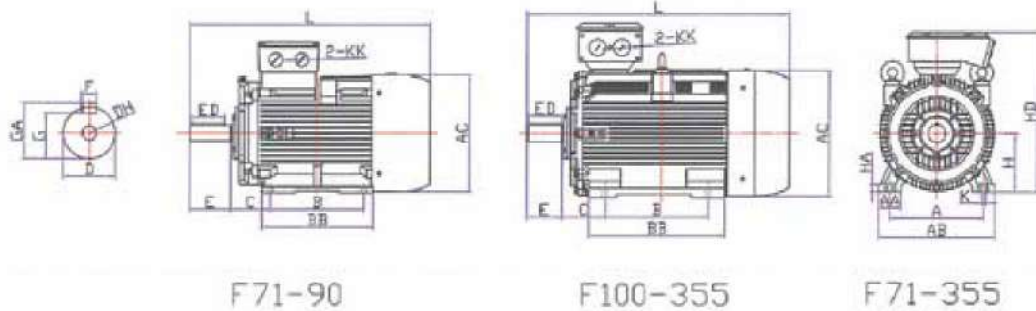
CT Performance Data 60Hz

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

Rated KW	Power HP	Pole	Frame Size	Rated Speed (RPM)	IFL	IFL	IFL	Power Factor COSφ	Efficiency η %	IST	TFL	TST	TM	Moment of Inertia (Kgm ²)	Weight (Kg)
					440V (A)	460V (A)	480V (A)			IFL (Time)	(Nm)	(Time)	(Time)		
18.5	25	2	160L	3516	29.88	28.58	27.39	0.90	89.5	6.8	50.3	2.5	2.8	0.055	147
		4	180M	1764	31.26	29.90	28.66	0.88	90.5	6.4	100.2	2.3	2.9	0.139	182
		6	200L-1	1164	33.25	31.80	30.48	0.81	90.2	6.7	151.9	2.2	2.8	0.315	240
		8	225S	876	35.41	33.87	32.46	0.76	88.5	5.6	201.8	2.2	2.6	0.491	271
22	30	2	180M	3528	35.41	33.87	32.46	0.90	89.5	6.6	59.6	2.6	2.8	0.076	180
		4	180L	1764	37.05	35.44	33.96	0.88	91.0	6.9	119.2	2.3	2.9	0.158	190
		6	200L-2	1164	38.60	36.93	35.39	0.83	91.0	6.6	180.6	2.3	2.9	0.360	250
		8	225M	880	40.76	38.99	37.37	0.78	90.2	5.4	238.9	2.1	2.4	0.547	299
30	40	2	200L-1	3540	47.85	45.77	43.86	0.89	90.2	6.5	81.0	2.5	2.7	0.124	240
		4	200L	1764	49.66	47.50	45.52	0.89	91.7	6.8	162.5	2.4	2.9	0.262	270
		6	225M	1176	51.21	48.99	46.95	0.84	91.7	6.8	243.8	2.2	2.7	0.547	314
		8	250M	888	54.67	52.29	50.11	0.79	90.2	5.3	322.8	2.2	2.5	0.830	406
37	50	2	200L-2	3540	58.64	56.09	53.75	0.91	91.5	6.5	99.9	2.4	2.6	0.139	255
		4	225S	1764	60.20	57.58	55.18	0.89	92.4	6.5	239.5	2.2	2.7	0.406	318
		6	250M	1176	60.54	57.91	55.50	0.86	91.7	6.2	300.6	2.0	2.5	0.834	420
		8	280S	888	66.93	64.02	61.35	0.82	91.0	5.6	398.1	2.3	2.7	1.390	507
45	60	2	225M	3564	70.90	67.82	65.00	0.90	91.7	6.8	120.6	2.4	2.6	0.233	342
		4	225M	1776	72.98	69.80	66.90	0.89	93.0	6.3	242.1	2.3	2.5	0.469	351
		6	280S	1176	74.27	71.04	68.08	0.87	91.7	6.1	365.6	1.9	2.5	1.390	505
		8	280M	888	81.27	77.73	74.50	0.81	91.0	5.2	484.2	2.1	2.8	1.650	549
55	75	2	250M	3564	86.02	82.28	78.85	0.89	92.4	6.8	147.5	2.5	2.8	0.312	444
		4	250M	1776	88.95	85.09	81.54	0.88	93.0	6.4	295.9	2.2	2.5	0.660	468
		6	280M	1182	90.68	86.74	83.13	0.88	92.1	6.7	444.6	2.1	2.7	1.650	552
		8	315S	888	95.69	91.53	87.72	0.82	91.5	5.7	591.8	1.9	2.5	4.790	860
75	100	2	280S	3564	116.42	111.36	106.72	0.91	93.0	6.7	201.7	2.4	2.7	0.597	544
		4	280S	1776	119.27	114.08	109.33	0.90	93.2	6.8	403.5	2.1	2.8	1.120	562
		6	315S	1188	122.64	117.30	112.42	0.86	93.0	6.5	603.2	2.0	2.7	4.110	880
		8	315M	888	129.63	124.00	118.83	0.83	92.0	5.9	807.0	2.1	2.8	5.580	960
90	125	2	280M	3564	137.75	131.76	126.27	0.91	93.0	6.7	241.3	2.4	2.7	0.675	606
		4	280M	1776	142.50	136.30	130.63	0.89	93.2	6.9	484.2	2.2	2.7	1.460	667
		6	315M	1188	146.82	140.43	134.58	0.86	93.0	6.2	723.9	2.0	2.6	4.280	1020
		8	315L-1	888	153.21	146.55	140.44	0.83	92.5	6.2	968.4	2.3	2.9	6.370	1100
110	150	2	315S	3576	168.06	160.76	154.06	0.92	93.0	6.6	293.9	2.0	2.5	1.180	980
		4	315S	1776	173.16	165.63	158.73	0.89	93.5	6.5	591.8	1.9	2.7	3.110	1000
		6	315L-1	1188	177.91	170.17	163.08	0.86	94.1	6.0	884.7	1.9	2.7	5.450	1100
		8	315L-2	888	186.55	178.43	171.00	0.82	92.5	6.0	1183.6	2.2	2.8	7.230	1202
132	180	2	315M	3576	201.23	192.48	184.46	0.92	94.1	6.6	352.7	2.1	2.5	1.550	1080
		4	315M	1776	207.27	198.26	190.00	0.88	94.5	6.8	710.2	2.3	3.2	3.290	1100
		6	315L-2	1188	210.73	201.57	193.17	0.87	94.1	5.8	1061.7	2.0	2.7	6.120	1170
		8	355M-1	888	223.68	213.96	205.04	0.84	92.5	5.0	1420.3	1.9	2.2	7.550	1595
160	215	2	315L-1	3576	243.63	233.04	223.33	0.92	94.1	6.7	427.5	1.9	2.4	1.760	1160
		4	315L-1	1776	247.86	237.09	227.21	0.89	94.5	6.6	860.8	2.6	3.0	3.790	1160
		6	355M-1	1188	251.32	240.39	230.38	0.88	94.1	7.1	1286.9	2.3	3.0	8.850	1580
		8	355M-2	888	272.05	260.22	249.38	0.83	92.5	5.3	1721.6	2.0	2.3	11.730	1760
200	270	2	315L-2	3576	300.29	287.23	275.26	0.92	94.1	6.7	534.4	1.9	2.4	2.020	1190
		4	315L-2	1776	309.18	295.74	283.42	0.89	94.5	6.4	1076.0	2.2	2.8	4.490	1270
		6	355M-2	1188	311.77	298.22	285.79	0.89	94.1	7.1	1608.6	2.3	2.9	9.550	1720
		8	355L	888	339.41	324.65	311.13	0.85	92.5	5.4	2152.0	2.1	2.3	12.860	1967
250	340	2	355M-2	3576	370.50	354.39	339.63	0.93	94.1	5.7	668.0	1.7	2.4	3.560	1758
		4	355M	1788	380.00	363.48	348.33	0.90	94.5	6.1	1336.0	1.9	2.3	5.670	1698
		6	355L	1188	386.91	370.09	354.67	0.90	94.1	6.6	2010.7	2.2	2.6	10.300	1770
315	430	2	355L-2	3576	463.77	443.61	425.13	0.93	94.1	5.5	841.7	1.6	2.3	4.100	1848
		4	355L	1788	478.45	457.65	438.58	0.92	94.5	6.4	1683.3	2.2	2.4	6.660	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 50Hz 400V design, other data is the reference value.
 4. Data subject to change without notice

CT-B3



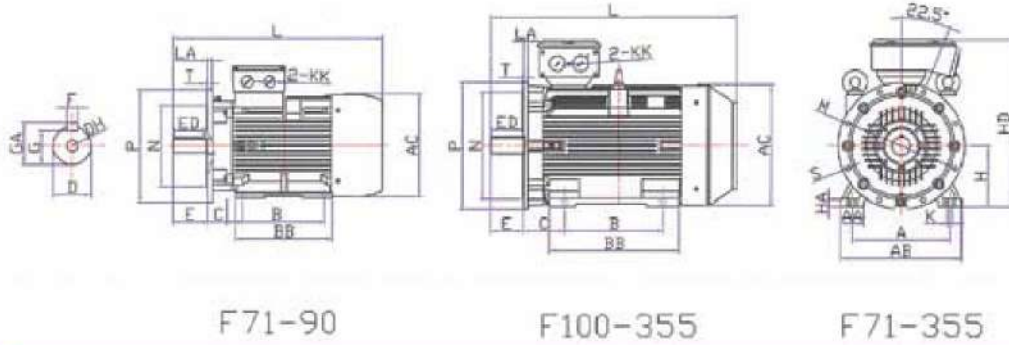
CT B3 Foot Mounting Dimensions

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

Data are subjected to revisions without any prior notice.

CT-B35



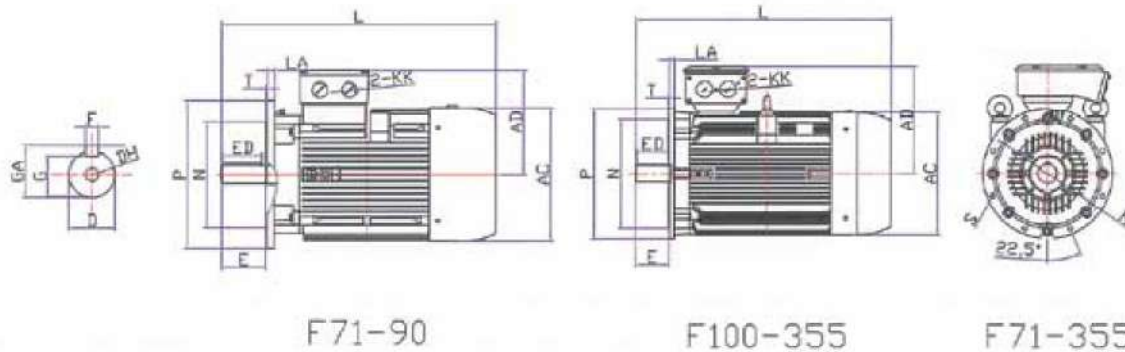
CT B35 Foot & Flange Mounting Dimensions

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-ø9	3.5	32	144	145	8	M20X1.5	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	4-ø12	3.5	34	160	175	12	M25X1.5	130	25	M6X16	21.5	10	230	295
90S	2,4,6,8	140	100	56	24j6	50	8	20	90	10	165	130	200	4-ø12	3.5	36	180	190	12	M25X1.5	135	40	M8X19	27	12.5	260	320
90L	2,4,6,8	140	125	56	24j6	50	8	20	90	10	165	130	200	4-ø12	3.5	36	180	190	12	M25X1.5	160	40	M8X19	27	12.5	260	345
100	2,4,6,8	160	140	63	28j6	60	8	24	100	12	215	180	250	4-ø14.5	4	40	200	215	14	M25X1.5	182	45	M10X22	31	14	275	385
112	2,4,6,8	190	140	70	28j6	60	8	24	112	12	215	180	250	4-ø14.5	4	45	230	236	14	M32X1.5	195	45	M10X22	31	14	310	410
132S	2,4,6,8	216	140	89	38k6	80	10	33	132	12	265	230	300	4-ø14.5	4	52	265	275	14	M32X1.5	205	63	M12X28	41	16	350	480
132M	2,4,6,8	216	178	89	38k6	80	10	33	132	12	265	230	300	4-ø14.5	4	52	265	275	14	M32X1.5	245	63	M12X28	41	16	350	520
160M	2,4,6,8	254	210	108	42k6	110	12	37	160	14.5	300	250	350	4-ø18.5	5	67	320	330	15	M40X1.5	260	90	M16X36	45	19	425	610
160L	2,4,6,8	254	254	108	42k6	110	12	37	160	14.5	300	250	350	4-ø18.5	5	67	320	330	15	M40X1.5	305	90	M16X36	45	19	425	655
180M	2,4,6,8	279	241	121	48k6	110	14	42.5	180	14.5	300	250	350	4-ø18.5	5	74	350	380	15	M40X1.5	297	90	M16X36	51.5	22	460	680
180L	2,4,6,8	279	279	121	48k6	110	14	42.5	180	14.5	300	250	350	4-ø18.5	5	74	350	380	15	M40X1.5	335	90	M16X36	51.5	22	460	720
200	2,4,6,8	318	305	133	55m6	110	16	49	200	18.5	350	300	400	4-ø18.5	5	80	395	420	17	M50X1.5	370	90	M20X42	59	25	515	760
225S	4,6,8	356	286	149	60m6	140	18	53	225	18.5	400	350	450	8-ø18.5	5	80	436	465	19	M50X1.5	355	110	M20X42	64	28	560	825
225M	2	356	311	149	55m6	110	16	49	225	18.5	400	350	450	8-ø18.5	5	80	436	465	19	M50X1.5	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-ø18.5	5	80	436	465	19	M50X1.5	380	110	M20X42	64	28	560	850
250M	2	406	349	168	60m6	140	18	53	250	24	500	450	550	8-ø18.5	5	88	495	520	20	M63X 1.5	440	110	M20X42	64	33	620	925
250M	4,6,8	406	349	168	65m6	140	18	58	250	24	500	450	550	8-ø18.5	5	88	495	520	20	M63X 1.5	440	110	M20X42	69	33	620	925
280S	2	457	368	190	65m6	140	18	58	280	24	500	450	550	8-ø18.5	5	90	550	570	22	M63X 1.5	494	110	M20X42	69	35	685	960
280S	4,6,8	457	368	190	75m6	140	20	67.5	280	24	500	450	550	8-ø18.5	5	90	550	570	22	M63X 1.5	494	110	M20X42	79.5	35	685	975
280M	2	457	419	190	65m6	140	18	58	280	24	500	450	550	8-ø18.5	5	90	550	570	22	M63X 1.5	535	110	M20X42	69	35	685	1000
280M	4,6,8	457	419	190	75m6	140	20	67.5	280	24	500	450	550	8-ø18.5	5	90	550	570	22	M63X 1.5	535	110	M20X42	79.5	35	685	1015
315S	2	508	406	216	65m6	140	18	58	315	28	600	550	660	8-ø24	6	120	635	650	24	M63X 1.5	515	110	M20X42	69	45	820	1160
315S	4,6,8	508	406	216	80m6	170	22	71	315	28	600	550	660	8-ø24	6	120	635	650	24	M63X 1.5	515	140	M20X42	85	45	820	1190
315M	2	508	457	216	65m6	140	18	58	315	28	600	550	660	8-ø24	6	120	635	650	24	M63X 1.5	625	110	M20X42	69	45	820	1270
315M	4,6,8	508	457	216	80m6	170	22	71	315	28	600	550	660	8-ø24	6	120	635	650	24	M63X 1.5	625	140	M20X42	85	45	820	1300
315L	2	508	508	216	65m6	140	18	58	315	28	600	550	660	8-ø24	6	120	635	650	24	M63X 1.5	625	110	M20X42	69	45	820	1270
315L	4,6,8	508	508	216	80m6	170	22	71	315	28	600	550	660	8-ø24	6	120	635	650	24	M63X 1.5	625	140	M20X42	85	45	820	1300
355M	2	610	560	254	75m6	140	20	67.5	355	28	740	680	800	8-ø24	6	125	735	735	25	M63X 1.5	775	110	M24X50	79.5	49	1000	1500
355M	4,6,8	610	560	254	95m6	170	25	86	355	28	740	680	800	8-ø24	6	125	735	735	25	M63X 1.5	775	140	M24X50	100	49	1000	1530
355L	2	610	630	254	75m6	140	20	67.5	355	28	740	680	800	8-ø24	6	125	735	735	25	M63X 1.5	775	110	M24X50	79.5	49	1000	1500
355L	4,6,8	610	630	254	95m6	170	25	86	355	28	740	680	800	8-ø24	6	125	735	735	25	M63X 1.5	775	140	M24X50	100	49	1000	1530

Data are subjected to revisions without any prior notice.

CT-B5 / V1

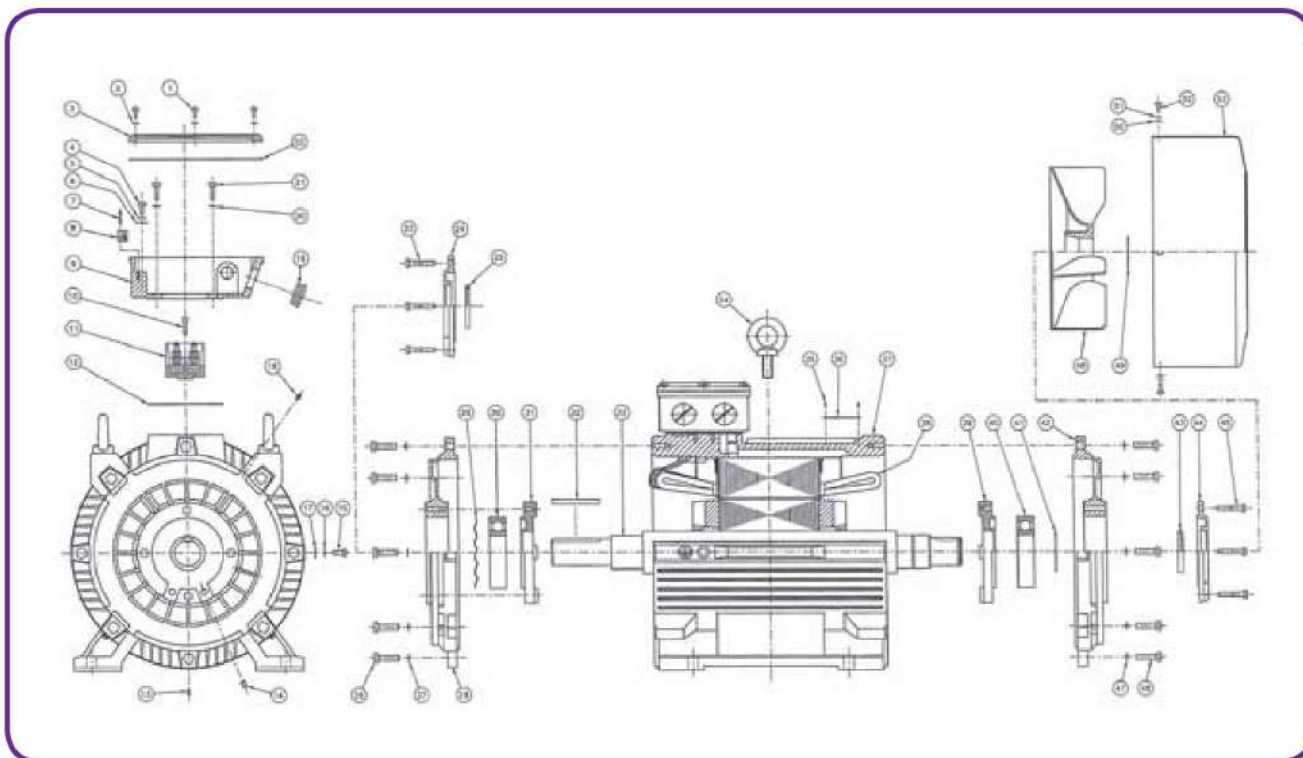


CT B5/V1 Flange Mounting Dimensions

F#71~90 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	LA	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-ø18.5	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

Data are subjected to revisions without any prior notice.



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	Spring washer	✓	✓	✓
6	Flat washer	✓	✓	✓
7	Bolt for aux. Terminal block	✓	✓	✓
8	Aux. Terminal box	✓	✓	✓
9	Terminal box lid	✓	✓	✓
10	Bolt for terminal board	✓	✓	✓
11	Terminal board assembly	✓	✓	✓
12	Gasket - terminal box	✓	✓	✓
13	Drain plug			✓
14	Plug - grease exhaust			✓
15	Earth bolt - frame	✓	✓	✓
16	Spring washer	✓	✓	✓
17	Flat washer	✓	✓	✓
18	Grease nipple			✓
19	Conduit entry plug	✓	✓	✓
20	Spring washer	✓	✓	✓
21	Bolt for terminal box	✓	✓	✓
22	Gasket - terminal box lid	✓	✓	✓
23	Bolt for outer b/cap - de			✓
24	Outer bearing cap - de			✓
25	Oil seal - de			✓
26	Bolt for endshield - de	✓	✓	✓
27	Spring washer	✓	✓	✓

Item	Description	Frame Sizes		
		63 - 90	100 - 132	160 - 355
28	Endshield - de	✓	✓	✓
29	Wave washer			✓
30	Bearing - de	✓	✓	✓
31	Inner bearing cap - de			✓
32	Key	✓	✓	✓
33	Rotor shaft	✓	✓	✓
34	Lifting eye		✓	✓
35	Rivet - nameplate	✓	✓	✓
36	Nameplate	✓	✓	✓
37	Frame	✓	✓	✓
38	Stator winding	✓	✓	✓
39	Inner bearing cap - nde			✓
40	Bearing - nde	✓	✓	✓
41	Circlip - bearing	✓	✓	✓
42	Endshield - nde	✓	✓	✓
43	Oil seal - nde	✓	✓	✓
44	Outer bearing cap - nde			✓
45	Bolt for outer b/cap - nde			✓
46	Bolt for endshield - nde	✓	✓	✓
47	Spring washer	✓	✓	✓
48	External fan	✓	✓	✓
49	Circlip - fan	✓	✓	✓
50	Flat washer	✓	✓	✓
51	Spring washer	✓	✓	✓
52	Bolt for fan cover	✓	✓	✓
53	Fan cover	✓	✓	✓

HIGH EFFICIENCY

Three Phase High Efficiency TEFC Asynchronous Motor

IEC frame size: 63 to 355

Designed to meet or exceed the requirements for energy efficiency such as: IEC 60034-30 (IE2), Australia (Level 1B), CEMEP-EU (EFF1), MS 1525, SS530 and GB18613-2006.



HIGH TEMP RESISTANT

High Temperature Resistant/Smokespill Cast-Iron Induction Motor

Certified to withstand 250°C, 300°C & 400°C (2 hours)

Designed for demanding and critical applications, such as fire emergencies in built-up areas. These motors play a life-saving role in the swift extraction and clearance of smoke and toxic fumes at high temperatures.



SINGLE PHASE SERIES

Single Phase Aluminium Induction Motor

Specially used when only single-phase current supply is available.

DY : Capacitor Run Series

Suitable for applications with low starting torque.

DL : Dual Capacitor Series

Suitable for applications with high starting torque.



EXPLOSION-PROOF

YB2 Series Three Phase Explosion-Proof Motor

Uniquely designed to contain the sparks within the motor to prevent ignition of external combustible vapours, enabling the motor to be safely used in hazardous locations.



SINGAPORE HQ

ATT Electric & Machinery Pte Ltd

6 Fifth Lok Yang Road
Singapore 629757

Tel: (65) 6261 3579
Fax: (65) 62611263
Email: att@attelec.com
Website: www.attelec.com

MALAYSIA

ATT Electric & Machinery Sdn Bhd

Lot 5 Minlon Industrial Park
Jalan Minlon Utama Off Jalan Taming 2
43300 Balakong
Selangor Darul Ehsan, Malaysia

Telephone: (603) 8962 2239/1236/6239
Fax: (603) 8962 1239
Email: 3mktg@attelec.com
Website: www.attelec.com

INDONESIA

PT. KTZ Dinamik

Jl. Raya Serpong KM.7, Kawasan Multiguna,
Paku Alam, Blok A/6A, Kel. Paku Alam,
Kec. Serpong Utara, Tangerang 15310,
Indonesia.

Telephone: (62) 21- 5399 452/453
Fax: (62) 21- 5312 3043
Email: info@ktzdinamik.com
Website: www.ktzdinamik.com

CHINA

Fuzhou KTZ Electric & Machinery Co. Ltd

4-1#, The Second Period, Mayang Industrial Area
ChenFeng Town, Yongtai County, Fuzhou, Fujian,
China
Postal Code: 350700

Tel: (+86) 591-24878396
Fax: (+86) 591-24878396
Email: info.cn@ktzasia.com

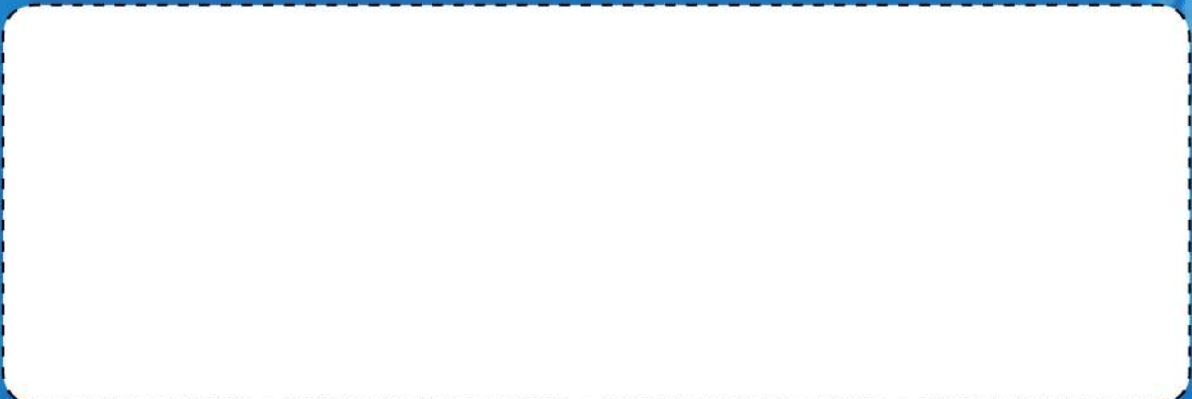
VIETNAM

KTZ Electric & Machinery (VN) Co. Ltd

Lot A13.10, Trung Tam Street, Bourbon An Hoa
Industrial Park, Trang Bang, Tay Ninh,
Vietnam.

Tel: (+84) 663899611
Fax: (+84) 663899612
Email: info.vn@ktzasia.com

Authorized Dealer:



Catalogue No.: ATT/AT-CT/2020V1

Copyright © 2020 ATT Electric & Machinery Pte Ltd. All Rights Reserved.

All design, information and images displayed in this catalogue are property of ATT Electric & Machinery Pte Ltd and may not be reproduced in any manner or form without the expressed written permission of ATT Electric & Machinery Pte Ltd.