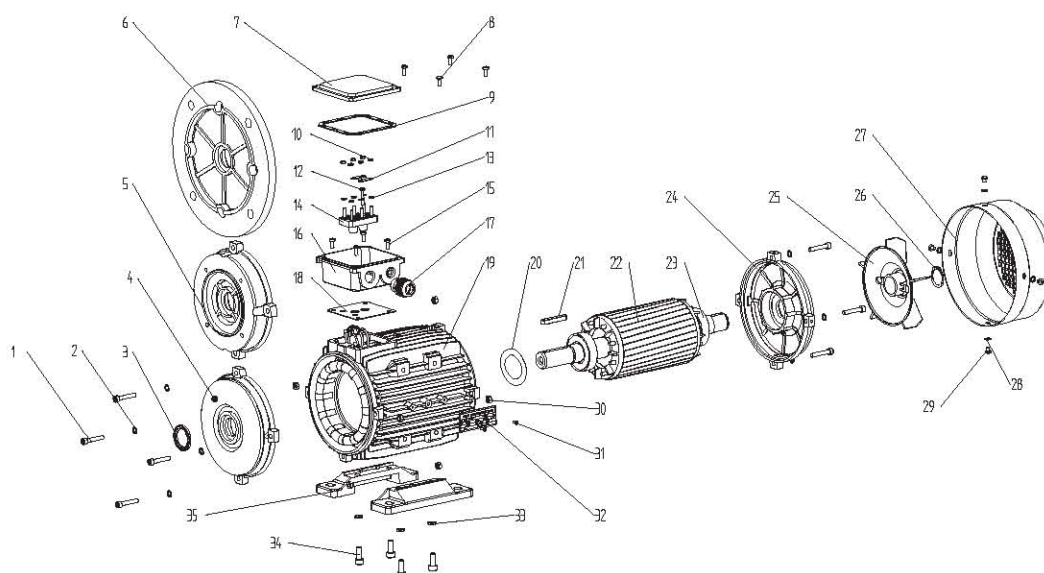




IEC STANDARD MOTORS



Motor Spare Part List "Exploded Drawing"



1. Screw
2. Gasket
3. Oil seal
4. Front endshield
5. B14 flange
6. B5 flange
7. TB cover
8. TB fixing screws
9. TB upper gasket
10. Terminal board fixing nut
11. Terminal bridge
12. Terminal pin
13. Terminal shim
14. Terminal board
15. TB fixing screws
16. TB base
17. Cable gland
18. TB bottomgasket
19. Frame
20. Preload washer
21. Key
22. Rotor
23. Bearing
24. NDE endshield
25. Cooling fan
26. Fan circlip
27. Fan cover
28. Fan cover fixing shim
29. Fan cover fixing screws
30. Endshield fixing nut
31. Rivet
32. Nameplate
33. Foot fixing nut
34. Foot fixing screws
35. Foot

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

Mountings and Positions

Mountings and positions for standard motors, according to IEC 60034-7, are defined by the codes mentioned in the following table.

	Standards			Frame Sizes
	CEI 2-14	IEC 60034-7		56-200
		Code I	Code II	
	B3	IM B3	IM 1001	Standard
	B3/B5	IM B35	IM 2001	Standard
	B5	IM B5	IM 3001	Standard
	B14	IM B14	IM 4001	Standard
	B8	IM B8	IM 1071	Upon request
	B6	IM B6	IM 1051	Upon request
	B7	IM B7	IM 1061	Upon request

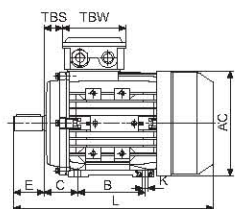
	Standards			Frame Sizes
	CEI 2-14	IEC 60034-7		56-200
		Code I	Code II	
	V1	IM V1	IM 3011	Standard
	V3	IM V3	IM 3031	Upon request
	V5	IM V5	IM 1011	Upon request
	V6	IM V6	IM 1031	Upon request
	V1/V5	IM V15	IM 2011	Upon request

Aluminum Housing Electric Motors Bearings & Oil Seals

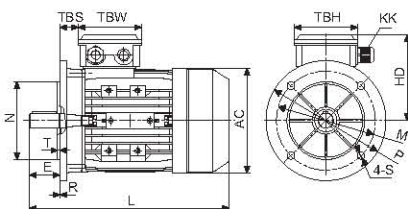
Frame	Bearings		Oil Seals	
	Drive End	Non-drive End	Drive End	Non-drive End
56	6201	6201	12×22×5	12×22×5
63	6201	6201	12×24×5	12×24×5
71	6202	6202	15×25×7	15×25×7
80	6204	6204	20×34×7	20×34×7
90S	6205	6205(6204)※※	25×37×7	25×37×7(20×34×7)※※
90L	6205	6205(6204)※※	25×37×7	25×37×7(20×34×7)※※
100L	6206	6206	30×44×7	30×44×7
112M	6306	6206(6306)	30×44×7	30×44×7
132S	6308	6208(6308)	40×58×7	40×58×7
132M/L	6308	6208(6308)	40×58×7	40×58×7
160M	6309	6309	45×65×8	45×65×8
160L	6309	6309	45×65×8	45×65×8
180M	6311	6211	55×72×8	55×72×8
180L	6311	6211	55×72×8	55×72×8
200L	6312	6212	60×80×8	60×80×8

※ Other standards are also available on request, the figures in brackets() are for the MC/ML single phase motors

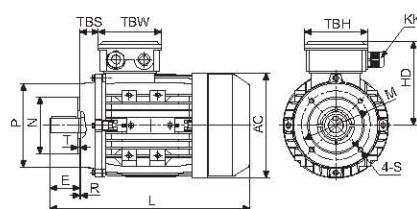
MS/MSD/MSBCCL Series Dimensional Drawings



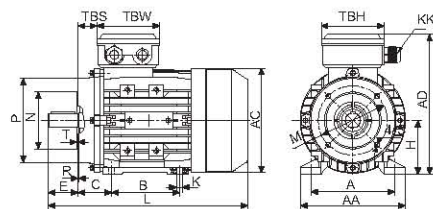
IM B3



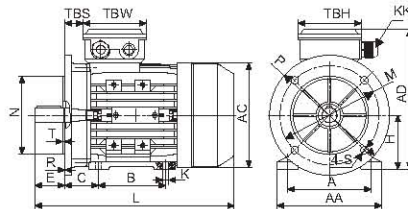
IM B5



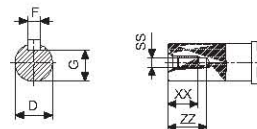
IM B14



IM B34



IM B35



Overall & Installation Dimension

Frame	Foot Mounting					Shaft							General									
	H	A	B	C	K	D	E	F	G	SS	XX	ZZ	AA	AD	HD	AC	L	LCCL*	KK	TBS	TBW	TBH
56	56	90	71	36	5.8X8.8	Ø9	20	3	7.2	M3	9	12	110	156	100	Ø117	196	232	1-M16X1.5	14	88	88
63	63	100	80	40	7X10	Ø11	23	4	8.5	M4	10	14	120	171	108	Ø130	220	258	1-M16X1.5	14	94	94
71**	71	112	90	45	7X10	Ø14	30	5	11	M5	12	17	132	186	115	Ø147	241(255)	282(296)	1-M20X1.5	20	94	94
80	80	125	100	50	10X13	Ø19	40	6	15.5	M6	16	21	160	213	133	Ø163	290	339	1-M20X1.5	27	105	105
90S	90	140	100	56	10X13	Ø24	50	8	20	M8	19	25	175	229	139	Ø183	312	361	1-M20X1.5	30	105	105
90L1/L2	90	140	125	56	10X13	Ø24	50	8	20	M8	19	25	175	229	139	Ø183	337/367	386/416	1-M20X1.5	30	105	105
100**	100	160	140	63	12X15	Ø28	60	8	24	M10	22	30	198	252	152	Ø205	369(387)	425(443)	2-M20X1.5	26	105	105
112	112	190	140	70	12X15	Ø28	60	8	24	M10	22	30	220	279	167	Ø229	395	463	2-M25X1.5	32	112	112
132S	132	216	140	89	12X15	Ø38	80	10	33	M12	28	37	252	318	186	Ø265	437	497	2-M25X1.5	38	112	112
132M/L	132	216	178	89	12X15	Ø38	80	10	33	M12	28	37	252	318	186	Ø265	475/501	535/561	2-M25X1.5	38	112	112
160M/L	160	254	210/254	108	15X19	Ø42	110	12	37	M16	36	45	290	384	224	Ø325	640	697	2-M32X1.5	64	143	143
180M/L	180	279	241/279	121	15X25	Ø48	110	14	42.5	M16	36	45	340	440	260	Ø368	730		2-M32X1.5	73	190	190
200L	200	318	305	133	19X29	Ø55	110	16	49	M20	42	53	390	460	260	Ø368	745		2-M40X1.5	85	190	190

Frame	B5						B5R						B14						B14B					
	M	N	P	T	S	R	M	N	P	T	S	R	N	M	P	T	S	R	N	M	P	T	S	R
56	Ø100	Ø80	Ø120	3.0	Ø7	0							Ø50	Ø65	Ø80	2.5	M5	0						
63	Ø115	Ø95	Ø140	3.0	Ø10	0							Ø60	Ø75	Ø90	2.5	M5	0	Ø80	Ø100	Ø120	3.0	M6	0
71**	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø115	Ø95	Ø140	3.5	Ø10	0	Ø70	Ø85	Ø105	2.5	M6	0	Ø95	Ø115	Ø140	3.0	M8	0
80	Ø165	Ø130	Ø200	3.5	Ø12	0	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø80	Ø100	Ø120	3.0	M6	0	Ø110	Ø130	Ø160	3.5	M8	0
90S	Ø165	Ø130	Ø200	3.5	Ø12	0	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø95	Ø115	Ø140	3.0	M8	0	Ø110	Ø130	Ø160	3.5	M8	0
90L1/L2	Ø165	Ø130	Ø200	3.5	Ø12	0	Ø130	Ø110	Ø160	3.5	Ø10	0	Ø95	Ø115	Ø140	3.0	M8	0	Ø110	Ø130	Ø160	3.5	M8	0
100**	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø165	Ø130	Ø200	4.0	Ø12	0	Ø110	Ø130	Ø160	3.5	M8	0	Ø130	Ø165	Ø200	3.5	M10	0
112	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø165	Ø130	Ø200	4.0	Ø12	0	Ø110	Ø130	Ø160	3.5	M8	0	Ø130	Ø165	Ø200	3.5	M10	0
132S	Ø265	Ø230	Ø300	4.0	Ø15	0	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø130	Ø165	Ø200	4.0	M10	0	Ø180	Ø215	Ø250	4.0	M12	0
132M/L	Ø265	Ø230	Ø300	4.0	Ø15	0	Ø215	Ø180	Ø250	4.0	Ø15	0	Ø130	Ø165	Ø200	4.0	M10	0	Ø180	Ø215	Ø250	4.0	M12	0
160M/L	Ø300	Ø250	Ø350	5.0	Ø19	0							Ø180	Ø215	Ø250	4.0	M12	0						
180M/L	Ø300	Ø250	Ø350	5.0	Ø19	0																		
200L	Ø350	Ø300	Ø400	5.0	Ø19	0																		

* This data is provided for MSBCCL series Brake motors both with and without hand release lever.

** This frame size has two housing sizes, the rated output is for normal "L" size, and increased output is for the bigger "L" size (refer to the figures in the bracket "{ }")

MS Series

Three-Phase Asynchronous Motors Aluminum Housing

MS series aluminum housing three-phase asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MS motors have good performance, safety and reliable operation, nice appearance, and can be maintained very conveniently, while with low noises, little vibration and at the same time light weight and simple construction. These series motors can be used for general drive.



IEC MOTOR

GOST MOTOR

NEMA MOTOR

PUMP

GENERATOR

D.C. MOTOR

MS Series **IE1** Efficiency Motors Technical Data (at 50Hz)

Model	Power (kW)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)	W.T (Kg)
		220V	380V	660V	230V	400V	690V	240V	415V	720V									
MS561-2	0.09	0.66	0.38	0.22	0.62	0.36	0.21	0.60	0.35	0.20	2710	53	0.72	2.2	2.3	2	4	58	2.60
MS562-2	0.12	0.73	0.42	0.24	0.69	0.40	0.23	0.67	0.39	0.22	2700	61	0.72	2.2	2.3	2	4	58	3.00
MS563-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	4.00
MS631-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	4.00
MS632-2	0.25	1.29	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	2710	65	0.78	2.2	2.4	1.6	6	61	4.20
MS633-2	0.37	1.92	1.11	0.64	1.82	1.05	0.61	1.76	1.02	0.59	2710	65	0.78	2.2	2.4	1.6	6	62	4.70
MS711-2	0.37	1.76	1.02	0.59	1.67	0.97	0.56	1.61	0.93	0.54	2730	70	0.79	2.2	2.4	1.6	6	64	5.20
MS712-2	0.55	2.57	1.49	0.86	2.45	1.42	0.82	2.36	1.36	0.79	2760	71	0.79	2.2	2.4	1.6	6	64	6.00
MS713-2	0.75	3.33	1.93	1.11	3.18	1.83	1.06	3.06	1.77	1.02	2730	72	0.82	2.2	2.4	1.5	6	65	7.00
MS801-2	0.75	3.21	1.86	1.07	3.06	1.77	1.02	2.94	1.70	0.98	2770	73	0.84	2.2	2.4	1.5	6	67	8.70
MS802-2	1.1	4.56	2.64	1.52	4.35	2.51	1.45	4.18	2.42	1.39	2770	76.2	0.83	2.2	2.4	1.5	6	67	10.00
MS803-2	1.5	6.04	3.50	2.01	5.87	3.32	1.92	5.54	3.20	1.85	2800	78.5	0.83	2.2	2.4	1.5	6	70	11.20
MS90S-2	1.5	5.97	3.46	1.99	5.76	3.28	1.90	5.47	3.16	1.82	2840	78.5	0.84	2.2	2.4	1.5	6	72	12.00
MS90L1-2	2.2	8.39	4.85	2.80	8.0	4.61	2.66	7.69	4.45	2.56	2840	81	0.85	2.2	2.4	1.4	6	72	14.50
MS90L2-2	3	11.1	6.42	3.69	10.6	6.10	3.52	10.2	5.88	3.39	2840	82.6	0.86	2.2	2.4	1.4	6	74	15.00
MS100L1-2	3	11.0	6.34	3.65	10.4	6.03	3.48	10.0	5.81	3.35	2840	82.6	0.87	2.2	2.3	1.4	7	76	20.00
MS100L2-2	4	14.3	8.30	4.78	13.7	7.88	4.55	13.1	7.60	4.38	2850	84.2	0.87	2.2	2.3	1.4	7.5	77	24.00
MS112M-2	4	14.3	8.30	4.78	13.7	7.88	4.55	13.1	7.60	4.38	2880	84.2	0.87	2.2	2.3	1.4	7.5	77	26.00
MS112L-2	5.5	19.1	11.1	6.38	18.2	10.5	6.08	17.5	10.1	5.85	2880	85.7	0.88	2.2	2.3	1.2	7.5	78	29.30
MS132S1-2	5.5	19.1	11.1	6.38	18.2	10.5	6.08	17.5	10.1	5.85	2900	85.7	0.88	2	2.2	1.2	7.5	80	38.40
MS132S2-2	7.5	25.7	14.9	8.57	24.5	14.1	8.16	23.6	13.6	7.86	2920	87	0.88	2	2.2	1.2	7.5	80	41.30
MS132M1-2	9.2	30.8	17.8	10.3	29.9	17.3	9.96	28.3	16.3	9.42	2930	88	0.89	2	2.2	1.2	7.5	81	48.20
MS132M2-2	11	36.3	21.0	12.1	34.6	20.0	11.5	33.3	19.2	11.1	2930	88.4	0.9	2	2.2	1.2	7.5	83	52.50
MS160M1-2	11	36.3	21.0	12.1	34.6	20.0	11.5	33.3	19.2	11.1	2940	88.4	0.9	2	2.2	1.2	7.5	86	76.00
MS160M2-2	15	48.4	28.0	16.1	46.1	26.6	15.4	44.4	25.7	14.8	2940	89.4	0.91	2	2.2	1.2	7.5	86	77.50
MS160L-2	18.5	59.3	34.3	19.8	56.5	32.6	18.8	54.3	31.4	18.1	2940	90	0.91	2	2.2	1.1	7.5	86	92.00
MS180M-2	22	71.3	41.3	23.8	68.2	39.2	22.6	65.3	37.8	21.8	2950	90	0.9	2	2.2	1.2	7.5	91	121.0
MS200L1-2	30	96.0	55.6	32.1	91.8	52.8	30.5	88.0	50.9	29.4	2950	91.2	0.9	2	2.2	1.2	7.5	94	144.0
MS200L2-2	37	117	67.9	39.2	112	64.5	37.2	108	62.2	35.9	2940	92	0.9	2	2.2	1.2	7.5	94	151.0
MS561-4	0.06	0.64	0.37	0.21	0.61	0.35	0.20	0.58	0.34	0.19	1360	50	0.56	2.3	2.4	2	4	50	2.90
MS562-4	0.09	0.82	0.47	0.27	0.78	0.45	0.26	0.75	0.43	0.25	1360	52	0.59	2.3	2.4	2	4	50	3.20

MS Series **IE1** Efficiency Motors Technical Data (at 50Hz)

Model	Power (KW)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff. (%)	Power Factor (Cosφ)	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Is/In (Times)	Noise dB(A)	W.T (kg)
		220V	380V	660V	230V	400V	690V	240V	415V	720V									
MS631-4	0.12	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	1360	52	0.64	2.2	2.4	2	4	52	3.70
MS632-4	0.18	1.28	0.74	0.43	1.21	0.70	0.40	1.17	0.67	0.39	1310	57	0.65	2.2	2.4	2	4	52	4.20
MS633-4	0.25	1.66	0.96	0.55	1.58	0.91	0.53	1.52	0.88	0.51	1340	60	0.66	2.2	2.2	2	4	54	5.00
MS711-4	0.25	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.81	0.46	1350	60	0.72	2.2	2.4	1.7	6	55	5.00
MS712-4	0.37	2.02	1.17	0.67	1.92	1.11	0.64	1.85	1.07	0.62	1370	65	0.74	2.2	2.4	1.7	6	55	5.80
MS713-4	0.55	2.92	1.69	0.97	2.78	1.60	0.93	2.67	1.55	0.89	1380	66	0.75	2.2	2.4	1.7	6	57	6.50
MS801-4	0.55	2.87	1.66	0.96	2.74	1.58	0.91	2.63	1.52	0.88	1370	67	0.75	2.2	2.4	1.7	6	58	8.10
MS802-4	0.75	3.50	2.03	1.17	3.34	1.93	1.11	3.21	1.86	1.07	1380	72	0.78	2.2	2.4	1.6	6	58	9.10
MS803-4	1.1	4.86	2.81	1.62	4.63	2.67	1.54	4.45	2.57	1.48	1390	76.2	0.78	2.2	2.4	1.6	6	60	11.00
MS90S-4	1.1	4.80	2.78	1.60	4.57	2.64	1.52	4.40	2.54	1.47	1400	76.2	0.79	2.2	2.4	1.6	6	61	11.70
MS90L1-4	1.5	6.27	3.63	2.09	5.97	3.45	1.99	5.75	3.32	1.92	1400	78.5	0.8	2.2	2.4	1.6	6	61	14.40
MS90L2-4	2.2	8.91	5.16	2.97	8.45	4.90	2.83	8.17	4.72	2.72	1400	81	0.8	2.2	2.4	1.5	7	63	17.60
MS100L1-4	2.2	8.80	5.09	2.93	8.38	4.84	2.79	8.07	4.66	2.69	1420	81	0.81	2.2	2.3	1.5	7	64	19.20
MS100L2-4	3	11.8	6.81	3.92	11.2	6.47	3.74	10.8	6.24	3.60	1420	82.6	0.81	2.2	2.3	1.5	7	64	22.50
MS100L3-4	4	15.2	8.80	5.07	14.2	8.36	4.83	13.9	8.06	4.65	1430	84.2	0.82	2.2	2.3	1.5	7	65	27.30
MS112M-4	4	15.0	8.70	5.01	14.3	8.26	4.77	13.8	7.96	4.59	1430	84.2	0.83	2.2	2.2	1.5	7	65	29.00
MS112L-4	5.5	20.3	11.7	6.76	19.3	11.2	6.44	18.6	10.8	6.20	1440	85.7	0.83	2.2	2.2	1.4	7	68	35.70
MS132S-4	5.5	20.1	11.6	6.68	19.1	11.0	6.37	18.4	10.6	6.13	1450	85.7	0.84	2.2	2.2	1.4	7	71	39.00
MS132M-4	7.5	26.6	15.4	8.87	25.4	14.6	8.45	24.4	14.1	8.13	1450	87	0.85	2.2	2.2	1.4	7	71	48.60
MS132L1-4	9.2	32.5	18.8	10.8	30.9	17.9	10.3	29.8	17.2	9.9	1460	87.5	0.85	2.2	2.2	1.4	7.5	74	56.50
MS132L2-4	11	38.0	22.0	12.7	36.2	20.9	12.1	34.8	20.1	11.6	1460	88.4	0.86	2.2	2.2	1.4	7.5	74	64.00
MS160M-4	11	37.5	21.7	12.5	35.8	20.6	11.9	34.4	19.9	11.5	1460	88.4	0.87	2.2	2.2	1.4	7	75	73.00
MS160L1-4	15	51.2	29.6	17.1	48.8	28.2	16.3	46.9	27.1	15.6	1460	88.4	0.87	2.2	2.2	1.4	7.5	75	88.50
MS160L2-4	18.5	63.1	36.5	21.0	60.1	34.7	20.0	57.9	33.5	19.3	1460	90.5	0.85	2.2	2.2	1.4	7.5	78	97.50
MS180M-4	18.5	62.4	36.1	20.8	59.7	34.3	19.8	57.2	33.1	19.1	1460	90.5	0.86	2.2	2.2	1.4	7.5	80	118.0
MS180L-4	22	73.8	42.7	24.7	70.6	40.6	23.4	67.7	39.1	22.6	1460	91	0.86	2.2	2.2	1.4	7.5	80	128.0
MS200L-4	30	99.5	57.6	33.2	95.1	54.7	31.6	91.2	52.7	30.4	1470	92	0.86	2.2	2.2	1.4	7.5	83	158.0
MS631-6	0.09	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	840	42	0.61	2	2	1.5	3.5	50	4.20
MS632-6	0.12	1.13	0.65	0.38	1.08	0.62	0.36	1.03	0.60	0.34	850	45	0.62	2	2	1.5	3.5	50	4.50
MS711-6	0.18	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	880	56	0.66	1.6	1.7	1.5	4	52	5.60
MS712-6	0.25	1.59	0.92	0.53	1.51	0.87	0.50	1.46	0.84	0.49	900	59	0.7	2.1	2.2	1.5	4	52	6.00
MS713-6	0.37	2.31	1.34	0.77	2.2	1.27	0.73	2.11	1.22	0.70	890	61	0.69	2	2.1	1.5	4	54	6.80
MS801-6	0.37	2.24	1.30	0.75	2.13	1.23	0.71	2.05	1.19	0.68	900	62	0.7	1.9	1.9	1.5	4	56	8.10
MS802-6	0.55	2.99	1.73	1.00	2.85	1.65	0.95	2.74	1.59	0.91	900	67	0.72	2	2.3	1.5	4	56	9.60
MS803-6	0.75	4.02	2.33	1.34	3.83	2.21	1.28	3.69	2.13	1.23	900	68	0.72	2	2.3	1.5	4	58	10.00
MS90S-6	0.75	3.96	2.29	1.32	3.77	2.18	1.26	3.63	2.10	1.21	920	69	0.72	2.2	2.2	1.5	5.5	59	11.30
MS90L1-6	1.1	5.49	3.18	1.83	5.23	3.02	1.74	5.03	2.91	1.68	925	72	0.73	2.2	2.2	1.3	5.5	59	14.40
MS90L2-6	1.5	7.09	4.11	2.36	6.76	3.90	2.25	6.50	3.76	2.17	925	74	0.75	2.2	2.2	1.3	5.5	60	15.50
MS100L1-6	1.5	7.00	4.05	2.33	6.67	3.85	2.22	6.42	3.71	2.14	945	74	0.76	2.2	2.2	1.3	6	61	18.80
MS100L2-6	2.2	9.87	5.71	3.29	9.40	5.43	3.13	9.04	5.23	3.01	950	77	0.76	2.2	2.2	1.3	6	63	19.80
MS112M-6	2.2	9.7	5.64	3.25	9.28	5.36	3.09	8.93	5.16	2.98	955	78	0.76	2.2	2.2	1.3	6	64	25.00
MS112L-6	3	12.9	7.49	4.31	12.3	7.12	4.11	11.9	6.86	3.95	950	79	0.77	2.2	2.2	1.3	6	64	30.00
MS132S-6	3	13.1	7.59	4.37	12.5	7.21	4.16	12.0	6.95	4.01	960	79	0.76	2	2	1.3	6.5	64	35.00
MS132M1-6	4	17.2	9.93	5.72	16.4	9.44	5.45	15.7	9.10	5.24	960	80.5	0.76	2	2	1.3	6.5	68	47.60
MS132M2-6	5.5	22.6	13.1	7.53	21.5	12.4	7.17	20.7	12.0	6.9	960	83	0.77	2	2	1.3	6.5	68	50.70
MS132L-6	7.5	30.1	17.4	10.0	28.7	16.5	9.55	27.6	15.9	9.2	960	85	0.77	2	2	1.3	6.5	68	47.60
MS160M-6	7.5	28.6	16.6	9.5	27.3	15.7	9.08	26.2	15.2	8.7	960	86	0.8	2	2.2	1.3	6.5	68	70.0
MS160L-6	11	41.8	24.2	13.9	39.8	23.0	13.3	38.3	22.1	12.8	960	87.5	0.79	2	2.2	1.2	6.5	73	87.0
MS180L-6	15	54.6	31.6	18.2	52.2	30.0	17.3	50.1	28.9	16.7	970	89	0.81	2	2.2	1.3	6.5	79	122.0
MS200L1-6	18.5	66.6	38.6	22.2	63.7	36.6	21.1	61.0	35.3	20.3	975	90	0.81	2	2.2	1.3	6.5	82	136.0
MS200L2-6	22	77.3	44.7	25.8	73.9	42.5	24.5	70.8	41.0	23.6	975	90	0.83	2	2.2	1.3	6.5	82	152.0
MS711-8	0.09	0.88	0.51	0.29	0.84	0.48	0.28	0.81	0.47	0.27	680	48	0.56	1.5	1.7	1.3	3	50	5.60
MS712-8	0.12	1.05	0.61	0.35	1.00	0.58	0.33	0.96	0.55	0.32	690	51	0.59	1.6	1.7	1.3	2.7	50	6.00
MS801-8	0.18	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.80	0.46	680	51	0.61	1.5	1.7	1.3	2.8	52	9.40
MS802-8	0.25	1.92	1.11	0.64	1.83	1.06	0.61	1.76	1.02	0.59	680	56	0.61	1.6	2	1.3	2.7	52	10.10
MS90S-8	0.37	2.45	1.42	0.82	2.33	1.35	0.78	2.24	1.30	0.75	680	63	0.63	1.6	1.8	1.3	2.8	56	12.50
MS90L-8	0.55	3.36	1.95	1.12	3.21	1.85	1.07	3.08	1.78	1.03	680	66	0.65	1.					

MS2 Series IE2 Efficiency Motors Technical Data (at 400V/50Hz)

Model	Power (kW)	Eff. (%)	Current (A)	Power Factor (CosΦ)	Speed (r/min)	T _{max} /T _N (Times)	T ₁₅ /T _N (Times)	I ₀ /I _N (Times)
MS2 801-2	0.75	77.4	1.75	0.80	2840	3.3	2.9	5.8
MS2 802-2	1.1	80	2.42	0.82	2850	3.6	3.5	6.8
MS2 90S-2	1.5	81.4	3.20	0.83	2850	3.6	3.5	6.9
MS2 90L-2	2.2	83.2	4.54	0.84	2860	4.1	4.1	7.9
MS2 100L-2	3	84.6	5.88	0.87	2880	3.4	3.4	7.8
MS2 112M-2	4	86	7.54	0.89	2890	3.3	2.7	7.5
MS2 132S1-2	5.5	87.2	10.2	0.89	2900	3	2.4	7.7
MS2 132S2-2	7.5	88.1	13.8	0.89	2910	3.2	2.6	8.4
MS2 160M1-2	11	89.4	19.9	0.89	2930	3.1	2.4	7.6
MS2 160M2-2	15	90.3	26.9	0.89	2930	3.2	2.6	8
MS2 160L-2	18.5	90.9	32.6	0.90	2940	3.5	3	9
MS2 180M-2	22	91.3	38.6	0.90	2950	3.5	2.6	8.5
MS2 200L1-2	30	92	52.3	0.90	2950	3.4	2.4	8
MS2 200L2-2	37	92.5	64.1	0.90	2950	3.5	2.5	8.5
MS2 802-4	0.75	79.6	1.79	0.76	1410	3	2.8	5.3
MS2 90S-4	1.1	81.4	2.50	0.78	1420	2.6	3.8	6.7
MS2 90L-4	1.5	82.8	3.31	0.79	1420	2.7	4	7.2
MS2 100L1-4	2.2	84.3	4.83	0.78	1440	3.6	3.6	7.4
MS2 100L2-4	3	85.5	6.33	0.80	1440	3.5	3.8	7.8
MS2 112M-4	4	86.6	8.23	0.81	1440	2.9	3.1	7.1
MS2 132S-4	5.5	87.9	10.9	0.83	1450	2.7	2.6	7.4
MS2 132M-4	7.5	88.7	14.5	0.84	1450	2.7	2.8	7.7
MS2 160M-4	11	89.8	21.6	0.82	1450	3.1	2.7	7.7
MS2 160L-4	15	90.6	28.4	0.84	1450	2.6	2.4	7.3
MS2 180M-4	18.5	91.4	34.4	0.85	1460	3.2	2.2	7.4
MS2 180L-4	22	91.7	40.3	0.86	1460	3.2	2.3	7.5
MS2 200L-4	30	92.3	55.2	0.86	1470	3.1	2.8	7.6
MS2 90S-6	0.75	76.0	2.01	0.71	925	3.1	3.1	4.7
MS2 90L-6	1.1	78.1	2.82	0.72	930	3.2	3.2	5
MS2 100L-6	1.5	80.0	3.71	0.73	940	2.9	3.1	5.9
MS2 112M-6	2.2	81.8	5.17	0.75	945	2.8	2.6	5.5
MS2 132S-6	3	83.3	6.84	0.76	960	2.7	2.2	5.7
MS2 132M1-6	4	84.6	8.86	0.77	960	2.7	2.4	6.2
MS2 132M2-6	5.5	86	12.0	0.77	960	2.7	2.6	6.7
MS2 160M-6	7.5	87.5	16.1	0.77	970	2.8	2	5.6
MS2 160L-6	11	89.0	22.9	0.78	970	2.8	2	5.8
MS2 180L-6	15	90.1	28.9	0.83	975	2.9	1.9	7.5
MS2 200L1-6	18.5	90.4	35.6	0.83	975	2.7	2.2	6.3
MS2 200L2-6	22	90.9	41.6	0.84	975	2.6	2.3	6.2

IEC MOTOR

GOST MOTOR

NEMA MOTOR

PUMP

GENERATOR

D.C. MOTOR

"ECOL" Motors

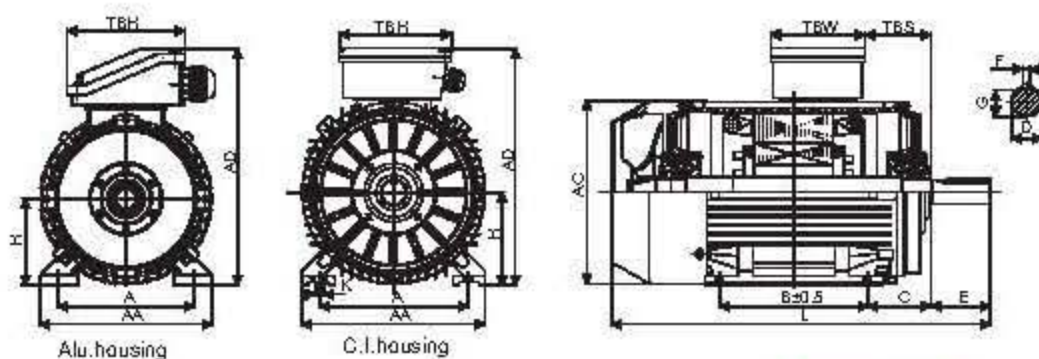
FEATURES

- Energy savings, high efficiency
- High starting torque, lower starting current
- Versatile and easy to modify design adapts to a variety of applications
- Option of integrated or removable feet
- Option of aluminum housing up to frame size 200
- Option of terminal box location (top, left or right)
- Option of IE2, IE3, MEPS High and Premium Efficiency for IEC standards + NEMA EPACT and Premium Efficiency
- Contained total length is the same as or shorter than the current market standard
- Full use of the magnetization properties of cold rolled silicone steel in which the stator laminations are magnetized evenly to reduce temperature rise of the winding

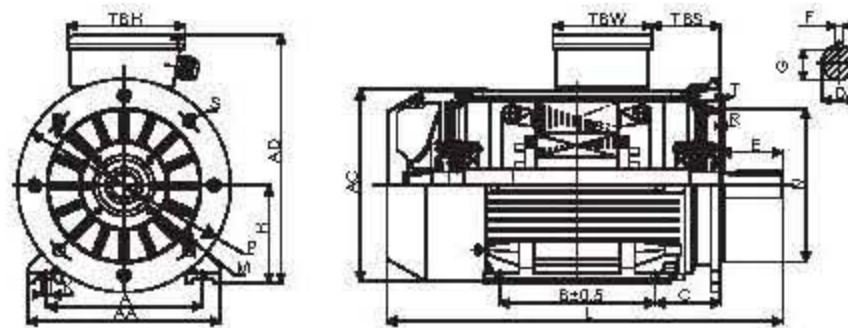


APPLICATIONS

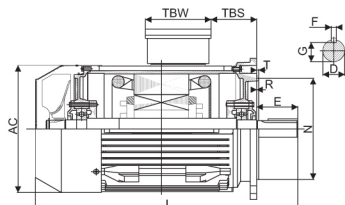
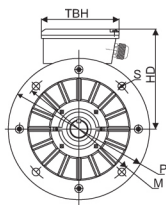
- Pumps
- Waste water treatment plants
- Air compressors, fans
- Gear reducers and power transmission
- Pulp and paper mills
- Steel mill
- Conveyors, elevators
- Should be "Material handling equipment"
- Agricultural application
- Mining equipment
- Hydraulic equipment



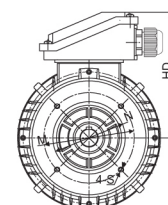
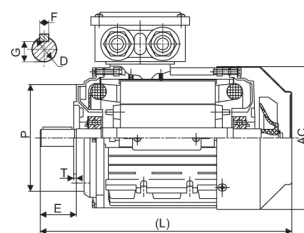
IM B3 **Figure 1**



IM B35 **Figure 2**



IM B5 Figure3



IM B14 Figure4

Overall & Installation Dimensions

Frame	Foot Mounting				Shaft					General							
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	TBS	TBW	TBH
80	80	125	100	50	Φ19	40	6	15.5	Φ9	160	220	140	Φ158	280	16	97	97
90S/L	90	140	100/125	56	Φ24	50	8	20	Φ10	175	240	150	Φ176	325/350	16	97	97
100	100	160	140	63	Φ28	60	8	24	Φ12	200	265	165	Φ199	388	20	118	118
112	112	190	140	70	Φ28	60	8	24	Φ12	230	291	179	Φ220	405	29	118	118
132S/M	132	216	140/178	89	Φ38	80	10	33	Φ12	255	332	200	Φ259	467/505	29	118	118
160M/L	160	254	210/254	108	Φ42	110	12	37	Φ15	314	402	242	Φ313	605/650	91	162	187
180M/L	180	279	241/279	121	Φ48	110	14	42.5	Φ15	348	439	259	Φ360	687/725	160/180	162	187
200L	200	318	305	133	Φ55	110	16	49	Φ19	388	497	297	Φ399	768	192	186	233
225S	4,8	225	356	286	Φ60	140	18	53	Φ19	436	553	328	Φ465	814	190	186	233
225M	2	225	356	311	Φ55	110	16	49	Φ19	436	553	328	Φ465	809	202	186	233
	4,6,8	225	356	311	Φ60	140	18	53	Φ19	436	553	328	Φ465	839	202	186	233
250M	2	250	406	349	Φ60	140	18	53	Φ24	484	616	366	Φ506	918	233	218	260
	4,6,8	250	406	349	Φ65	140	18	58	Φ24	484	616	366	Φ506	918	233	218	260
280S/M	2	280	457	368/419	190	Φ65	140	58	Φ24	557	668	388	Φ559	984/1035	265	218	260
	4,6,8	280	457	368/419	190	Φ75	140	67.5	Φ24	557	668	388	Φ559	984/1035	265	218	260
315S	2	315	508	406	216	Φ65	140	58	Φ28	630	845	530	Φ680	1205	130	280	320
	4,6,8	315	508	406	216	Φ80	170	71	Φ28	630	845	530	Φ680	1235	130	280	320
315M/L	2	315	508	457/508	216	Φ65	140	58	Φ28	630	845	530	Φ680	1355	130	280	320
	4,6,8	315	508	457/508	216	Φ80	170	71	Φ28	630	845	530	Φ680	1385	130	280	320
355M/L	2	355	610	560/630	254	Φ75	140	67.5	Φ28	740	1010	655	Φ820	1500	140	330	380
	4,6,8	355	610	560/630	254	Φ100	210	28	Φ28	740	1010	655	Φ820	1570	140	330	380

Frame	Bearings		Cable Gland	B5						B14					
	Drive End	Non-Drive End		N	M	P	S	T	R	N	M	P	S	T	R
80	6204ZZ		1-M20×1.5	Φ130	Φ165	Φ198	4-Φ12	3.5	0	Φ80	Φ100	Φ118	M6	3	0
90S/L	6205ZZ		1-M20×1.5	Φ130	Φ165	Φ198	4-Φ12	3.5	0	Φ95	Φ115	Φ138	M8	3	0
100	6206ZZ		1-M20×1.5	Φ180	Φ215	Φ250	4-Φ15	4	0	Φ110	Φ130	Φ158	M8	3.5	0
112	6306ZZ		2-M25×1.5	Φ180	Φ215	Φ250	4-Φ15	4	0	Φ110	Φ130	Φ158	M8	3.5	0
132S/M	6308ZZ		2-M25×1.5	Φ230	Φ265	Φ300	4-Φ15	4	0	Φ130	Φ165	Φ198	M10	3.5	0
160M/L	6309C3		2-M32×1.5	Φ250	Φ300	Φ350	4-Φ19	5	0						0
180M/L	6311C3		2-M32×1.5	Φ250	Φ300	Φ350	4-Φ19	5	0						0
200L	6312C3		2-M40×1.5	Φ300	Φ350	Φ400	4-Φ19	5	0						0
225S	4,8	6313C3	2-M50×1.5	Φ350	Φ400	Φ450	8-Φ19	5	0						0
225M	2			Φ350	Φ400	Φ450	8-Φ19	5	0						0
	4,6,8			Φ350	Φ400	Φ450	8-Φ19	5	0						0
250M	2	6314C3	2-M50×1.5	Φ400	Φ500	Φ550	8-Φ19	5	0						0
	4,6,8			Φ400	Φ500	Φ550	8-Φ19	5	0						0
280S/M	2	6316C3	2-M50×1.5	Φ400	Φ500	Φ550	8-Φ19	5	0						0
	4,6,8			Φ400	Φ500	Φ550	8-Φ19	5	0						0
315S/M/L	2	6317C3	2-M63×1.5	Φ550	Φ600	Φ660	8-Φ24	6	0						0
	4,6,8	NU319	6319C3	Φ550	Φ600	Φ660	8-Φ24	6	0						0
355M/L	2	6319C3	2-M63×1.5	Φ680	Φ740	Φ800	8-Φ24	6	0						0
	4,6,8	NU322	6322C3	Φ680	Φ740	Φ800	8-Φ24	6	0						0

IE1 Efficiency Motors Technical Data

Model	Power (KW)	Full Load Speed (r/min)	I _{st} 400V (A)	I _e 400V (A)	I _{st} /I _n (Times)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)
2 Pole - 3000 rpm Synchronous Speed 50Hz											
T1C 801-2	0.75	2838	1.09	2.06	5	72.1	0.73	2.52	2.2	1.9	2.6
T1C 802-2	1.1	2836	1.54	2.90	5	75	0.73	3.70	2.2	1.8	2.6
T1C 90S-2	1.5	2842	1.98	3.79	5	77.2	0.74	5.04	2.2	1.8	2.5
T1C 90L-2	2.2	2835	2.39	5.04	5.5	79.7	0.79	7.41	2.2	1.8	2.5
T1C 100L-2	3	2841	2.97	6.56	5.5	81.5	0.81	10.08	2.3	1.9	2.6
T1C 112M-2	4	2900	3.88	8.58	6	83.1	0.81	13.17	2.4	1.9	2.6
T1C 132S1-2	5.5	2895	4.65	11.16	6	84.7	0.84	18.14	2.3	2	2.6
T1C 132S2-2	7.5	2900	5.98	14.81	6.4	86	0.85	24.70	2.3	2	2.7
T1C 160M1-2	11	2910	7.85	20.83	6.3	87.6	0.87	36.10	2.3	2	2.7
T1C 160M2-2	15	2908	10.57	28.06	6.8	88.7	0.87	49.26	2.3	2	2.7
T1C 160L-2	18.5	2912	11.69	33.60	7	89.3	0.89	60.67	2.3	2	2.7
T1C 180M-2	22	2920	13.81	39.69	7.2	89.9	0.89	71.95	2.3	2	2.6
T1C 200L1-2	30	2915	18.67	53.64	7	90.7	0.89	98.28	2.3	2	2.6
T1C 200L2-2	37	2920	22.90	65.80	7.2	91.2	0.89	121.00	2.3	2	2.7
T1C 225M-2	45	2920	26.21	78.70	7	91.7	0.90	147.16	2.3	2	2.7
T1C 250M-2	55	2930	35.47	97.85	7.8	92.2	0.88	179.25	2.2	1.9	2.5
T1C 280S-2	75	2930	45.66	131.22	7.8	92.7	0.89	244.44	2.1	1.9	2.5
T1C 280M-2	90	2930	51.68	155.21	7.7	93	0.90	293.32	2.1	1.9	2.5
T1C 315S-2	110	2940	62.97	189.09	7.7	93.3	0.90	357.29	2	1.8	2.3
T1C 315M-2	132	2940	71.12	223.93	7.6	93.5	0.91	428.74	2	1.8	2.3
T1C 315L1-2	160	2945	91.10	273.57	7.8	93.8	0.90	518.81	2	1.8	2.3
T1C 315L2-2	200	2945	120.08	345.07	7.9	94	0.89	648.51	2	1.8	2.3
T1C 355M-2	250	2945	142.04	426.54	7.8	94	0.90	810.64	2	1.8	2.3
T1C 355L-2	315	2945	189.13	543.48	7.8	94	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
T1C 802-4	0.75	1410	1.03	2.00	5.4	72.1	0.75	5.08	2.2	1.9	2.6
T1C 90S-4	1.1	1415	1.32	2.71	5.3	75	0.78	7.42	2.2	1.8	2.6
T1C 90L-4	1.5	1410	1.74	3.60	5.5	77.2	0.78	10.16	2.2	1.8	2.5
T1C 100L1-4	2.2	1420	2.31	4.98	6	79.7	0.80	14.79	2.2	1.8	2.5
T1C 100L2-4	3	1420	3.08	6.64	6	81.5	0.80	20.17	2.3	1.9	2.6
T1C 112M-4	4	1425	3.74	8.47	6.3	83.1	0.82	26.81	2.4	1.9	2.6
T1C 132S-4	5.5	1420	4.85	11.29	6.5	84.7	0.83	36.99	2.3	2	2.6
T1C 132M-4	7.5	1420	5.98	14.81	6.4	86	0.85	50.44	2.3	2	2.7
T1C 160M-4	11	1430	8.61	21.32	6.8	87.6	0.85	73.46	2.3	2	2.7
T1C 160L-4	15	1435	10.06	27.74	6.7	88.7	0.88	99.82	2.3	2	2.7
T1C 180M-4	18.5	1435	12.32	33.98	7.2	89.3	0.88	123.11	2.3	2	2.7
T1C 180L-4	22	1450	15.29	40.60	7.3	89.9	0.87	144.89	2.3	2	2.6
T1C 200L-4	30	1450	18.67	53.64	7.6	90.7	0.89	197.57	2.3	2	2.6
T1C 225S-4	37	1460	22.90	65.80	7.5	91.2	0.89	242.00	2.3	2	2.7
T1C 225M-4	45	1470	29.18	80.49	7.3	91.7	0.88	292.33	2.3	2	2.7
T1C 250M-4	55	1470	33.70	96.85	7.4	92.1	0.89	357.29	2.2	1.9	2.5
T1C 280S-4	75	1470	48.11	132.71	7.5	92.7	0.88	487.21	2.1	1.9	2.5
T1C 280M-4	90	1470	51.68	155.21	7.7	93	0.90	584.65	2.1	1.9	2.5
T1C 315S-4	110	1475	62.97	189.09	7.8	93.3	0.90	712.15	2	1.8	2.3
T1C 315M-4	132	1475	71.12	223.93	7.8	93.5	0.91	854.58	2	1.8	2.3
T1C 315L1-4	160	1475	85.93	270.56	7.9	93.8	0.91	1035.86	2	1.8	2.3
T1C 315L2-4	200	1475	113.63	341.23	7.7	94	0.90	1294.82	2	1.8	2.3
T1C 355M-4	250	1475	150.10	431.33	7.9	94	0.89	1618.52	2	1.8	2.3
T1C 355L-4	315	1475	178.97	537.44	7.8	94	0.90	2039.34	2	1.8	2.3
6 Pole - 1000 rpm Synchronous Speed 50Hz											
T1C 90S-6	0.75	930	1.16	2.15	5.3	70	0.72	7.70	2.2	1.9	2.6
T1C 90L-6	1.1	930	1.63	3.02	5	72.9	0.72	11.29	2.2	1.8	2.6
T1C 100L-6	1.5	935	2.09	3.94	4.9	75.2	0.73	15.32	2.2	1.8	2.5
T1C 112M-6	2.2	935	2.97	5.60	5.7	77.7	0.73	22.47	2.2	1.8	2.5
T1C 132S-6	3	935	3.95	7.44	6.3	79.7	0.73	30.64	2.3	1.9	2.6
T1C 132M1-6	4	940	5.01	9.59	6.2	81.4	0.74	40.64	2.4	1.9	2.6
T1C 132M2-6	5.5	940	6.34	12.57	6.8	83.1	0.76	55.87	2.3	2	2.6
T1C 160M-6	7.5	950	8.49	16.82	7	84.7	0.76	75.39	2.3	2	2.7
T1C 160L-6	11	955	11.43	23.56	7.3	86.4	0.78	109.99	2.3	2	2.7
T1C 180L-6	15	955	14.84	31.25	7.2	87.7	0.79	149.99	2.3	2	2.7
T1C 200L1-6	18.5	960	15.58	36.31	6.9	88.6	0.83	184.02	2.3	2	2.7
T1C 200L2-6	22	960	18.41	42.89	7.3	89.2	0.83	218.84	2.3	2	2.6
T1C 225M-6	30	970	24.82	57.84	7.4	90.2	0.83	295.34	2.3	2	2.6
T1C 250M-6	37	970	27.94	69.20	7.5	90.8	0.85	364.25	2.3	2	2.7
T1C 280S-6	45	975	32.26	82.63	7.7	91.4	0.86	440.74	2.3	2	2.7
T1C 280M1-6	55	975	37.40	99.29	7.7	91.9	0.87	538.68	2.2	1.9	2.5
T1C 315S-6	75	975	45.71	131.36	7.9	92.6	0.89	734.56	2.1	1.9	2.5
T1C 315M-6	90	975	51.74	155.37	8	92.9	0.90	881.47	2	1.8	2.3
T1C 315L1-6	110	975	62.97	189.09	7.7	93.3	0.90	1077.36	2	1.8	2.3
T1C 315L2-6	132	975	79.68	228.96	8	93.5	0.89	1292.83	2	1.8	2.3
T1C 355M1-6	160	975	85.93	270.56	7.6	93.8	0.91	1567.06	2	1.8	2.3
T1C 355M2-6	200	975	113.63	341.23	7.8	94	0.90	1958.83	2	1.8	2.3
T1C 355L-6	250	975	150.10	431.33	7.8	94	0.89	2448.54	2	1.8	2.3

IE2 Efficiency Motors Technical Data

Model	Power (KW)	Full Load Speed (r/min)	I _a 400V (A)	I _a 400V (A)	I _{st} /I _n (Times)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{max} /T _n (Times)
2 Pole - 3000 rpm Synchronous Speed 50Hz											
T2C 801-2	0.75	2848	0.96	1.86	6	77.4	0.75	2.51	2.7	2.1	2.8
T2C 802-2	1.1	2846	1.20	2.52	6.7	79.6	0.79	3.69	2.7	2.1	2.9
T2C 90S-2	1.5	2852	1.32	3.17	6.1	81.3	0.84	5.02	2.3	2	2.7
T2C 90L-2	2.2	2845	1.89	4.54	7	83.2	0.84	7.38	2.6	2.1	2.7
T2C 100L-2	3	2851	2.00	5.75	7.6	84.6	0.89	10.05	2.5	2	2.8
T2C 112M-2	4	2910	2.63	7.56	7.8	85.8	0.89	13.13	2.5	2	2.7
T2C 132S1-2	5.5	2905	3.57	10.25	7.8	87	0.89	18.08	2.4	2	2.9
T2C 132S2-2	7.5	2910	5.06	13.96	7.9	88.1	0.88	24.61	2.7	2	2.8
T2C 160M1-2	11	2920	6.57	19.73	7.9	89.4	0.90	35.97	2.2	2.1	3
T2C 160M2-2	15	2918	8.37	26.35	7.9	90.3	0.91	49.09	2.3	2.1	3
T2C 160L-2	18.5	2922	9.64	31.93	8	90.9	0.92	60.46	2.4	2.1	2.9
T2C 180M-2	22	2930	13.60	39.08	7.5	91.3	0.89	71.70	2.3	2	2.8
T2C 200L1-2	30	2925	19.39	53.49	6.7	92	0.88	97.94	2.4	2	2.7
T2C 200L2-2	37	2930	21.36	64.15	6.3	92.5	0.90	120.59	2.3	2	2.7
T2C 225M-2	45	2930	28.81	79.45	6.9	92.9	0.88	146.66	2.3	2	2.8
T2C 250M-2	55	2940	35.09	96.80	8	93.2	0.88	178.64	2.3	1.9	2.7
T2C 280S-2	75	2940	37.86	125.45	8	93.8	0.92	243.60	2.2	1.9	2.7
T2C 280M-2	90	2940	45.28	150.06	7.7	94.1	0.92	292.33	2.2	1.9	2.6
T2C 315S-2	110	2940	62.30	187.08	7.7	94.3	0.90	357.29	2	1.8	2.3
T2C 315M-2	132	2940	70.29	221.33	7.6	94.6	0.91	428.74	2	1.8	2.3
T2C 315L1-2	160	2945	90.14	270.68	7.8	94.8	0.90	518.81	2	1.8	2.3
T2C 315L2-2	200	2945	118.82	341.44	7.9	95	0.89	648.51	2	1.8	2.3
T2C 355M-2	250	2945	140.54	422.05	7.8	95	0.90	810.64	2	1.8	2.3
T2C 355L-2	315	2945	187.14	537.76	7.8	95	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
T2C 802-4	0.75	1420	0.90	1.79	5.4	79.6	0.76	5.04	2.3	2.1	2.9
T2C 90S-4	1.1	1425	1.21	2.50	5.9	81.4	0.78	7.37	2.3	2.1	2.7
T2C 90L-4	1.5	1420	1.57	3.31	6.4	82.8	0.79	10.09	2.4	2	2.7
T2C 100L1-4	2.2	1430	2.03	4.59	6.6	84.3	0.82	14.69	2.4	2.1	2.9
T2C 100L2-4	3	1430	2.94	6.33	6.9	85.5	0.80	20.03	2.4	2	2.8
T2C 112M-4	4	1435	4.01	8.44	7.9	86.6	0.79	26.62	2.5	2	3
T2C 132S-4	5.5	1430	4.87	11.04	7.1	87.7	0.82	36.73	2.3	2	2.8
T2C 132M-4	7.5	1430	6.31	14.70	7.8	88.7	0.83	50.08	2.3	2	2.7
T2C 160M-4	11	1440	6.17	19.43	7.9	89.8	0.91	72.95	2.5	2.1	2.8
T2C 160L-4	15	1445	7.82	25.92	7.8	90.8	0.92	99.13	2.4	2.1	2.9
T2C 180M-4	18.5	1445	12.68	33.66	7.8	91.2	0.87	122.26	2.4	2.1	3
T2C 180L-4	22	1460	13.55	38.95	7.5	91.6	0.89	143.89	2.3	2	3
T2C 200L-4	30	1460	19.33	53.31	7.9	92.3	0.88	196.22	2.4	2	2.7
T2C 225S-4	37	1470	33.42	72.02	6.7	92.7	0.80	240.36	2.4	2	2.7
T2C 225M-4	45	1480	40.47	87.21	7	93.1	0.80	290.35	2.3	2	2.8
T2C 250M-4	55	1480	34.98	96.49	7.4	93.5	0.88	354.87	2.4	1.9	2.7
T2C 280S-4	75	1480	40.19	126.56	7.5	94	0.91	483.92	2.2	1.9	2.6
T2C 280M-4	90	1480	45.23	149.90	7.7	94.2	0.92	580.70	2.2	1.9	2.6
T2C 315S-4	110	1480	62.17	186.69	7.8	94.5	0.90	709.75	2	1.8	2.3
T2C 315M-4	132	1480	70.22	221.09	7.8	94.7	0.91	851.69	2	1.8	2.3
T2C 315L1-4	160	1480	84.93	267.43	7.9	94.9	0.91	1032.36	2	1.8	2.3
T2C 315L2-4	200	1480	112.32	337.29	7.7	95.1	0.90	1290.45	2	1.8	2.3
T2C 355M-4	250	1480	148.36	426.35	7.9	95.1	0.89	1613.06	2	1.8	2.3
T2C 355L-4	315	1480	176.90	531.23	7.8	95.1	0.90	2032.45	2	1.8	2.3
6 Pole - 1000 rpm Synchronous Speed 50Hz											
T2C 90S-6	0.75	935	0.95	1.88	6.2	75.9	0.76	7.66	2.2	2	2.7
T2C 90L-6	1.1	935	1.18	2.54	6	78.1	0.80	11.23	2.3	2.1	2.6
T2C 100L-6	1.5	940	1.46	3.31	5.8	79.8	0.82	15.24	2.3	2.1	2.7
T2C 112M-6	2.2	940	2.25	4.85	6.4	81.8	0.80	22.35	2.3	2.1	2.9
T2C 132S-6	3	940	2.69	6.26	6.3	83.3	0.83	30.48	2.4	2.2	2.8
T2C 132M1-6	4	945	3.39	8.12	6.2	84.6	0.84	40.42	2.5	2	2.8
T2C 132M2-6	5.5	945	4.97	11.26	6.8	86	0.82	55.58	2.3	1.9	2.8
T2C 160M-6	7.5	955	6.16	14.78	7	87.2	0.84	74.99	2.4	1.9	2.7
T2C 160L-6	11	960	8.50	21.06	7.3	88.7	0.85	109.42	2.5	2	2.8
T2C 180L-6	15	960	12.48	29.08	7.8	89.7	0.83	149.21	2.3	2.1	2.9
T2C 200L1-6	18.5	965	14.03	34.75	7.8	90.4	0.85	183.07	2.4	2.1	3.2
T2C 200L2-6	22	965	15.86	40.62	7.9	90.9	0.86	217.70	2.3	1.9	3.1
T2C 225M-6	30	975	22.43	55.56	7.9	91.7	0.85	293.82	2.2	1.9	2.7
T2C 250M-6	37	975	29.95	69.79	7.5	92.2	0.83	362.38	2.3	2.1	2.7
T2C 280S-6	45	980	31.81	81.48	7.2	92.7	0.86	438.49	2.3	2	2.8
T2C 280M1-6	55	980	38.71	99.15	7.7	93.1	0.86	535.93	2.2	1.9	2.7
T2C 315S-6	75	980	45.17	129.81	7.9	93.7	0.89	730.81	2.1	1.9	2.5
T2C 315M-6	90	980	51.13	153.56	8	94	0.90	876.98	2	1.8	2.3
T2C 315L1-6	110	980	62.30	187.08	7.7	94.3	0.90	1071.86	2	1.8	2.3
T2C 315L2-6	132	980	78.75	226.30	8	94.6	0.89	1286.23	2	1.8	2.3
T2C 355M1-6	160	980	85.02	267.71	7.6	94.8	0.91	1559.07	2	1.8	2.3
T2C 355M2-6	200	980	112.43	337.64	7.8	95	0.90	1948.84	2	1.8	2.3
T2C 355L-6	250	980	148.52	426.79	7.8	95	0.89	2436.05	2	1.8	2.3

IE3 Efficiency Motors Technical Data

Model	Power (KW)	Full Load Speed (r/min)	I _m 400V (A)	I _e 400V (A)	I ₁ /I _n (Times)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{max} /T _n (Times)
2 Pole - 3000 rpm Synchronous Speed 50Hz											
T3C 801-2	0.75	2848	0.92	1.79	6	80.7	0.75	2.51	2.7	2.1	2.8
T3C 802-2	1.1	2846	1.15	2.43	6.7	82.7	0.79	3.69	2.7	2.1	2.9
T3C 90S-2	1.5	2852	1.28	3.06	6.1	84.2	0.84	5.02	2.3	2	2.7
T3C 90L-2	2.2	2845	1.83	4.40	7	85.9	0.84	7.38	2.6	2.1	2.7
T3C 100L-2	3	2851	1.94	5.59	7.6	87.1	0.89	10.05	2.5	2	2.8
T3C 112M-2	4	2910	2.56	7.36	7.8	88.1	0.89	13.13	2.5	2	2.7
T3C 132S1-2	5.5	2905	3.48	10.00	7.8	89.2	0.89	18.08	2.4	2	2.9
T3C 132S2-2	7.5	2910	4.95	13.65	7.9	90.1	0.88	24.61	2.7	2	2.8
T3C 160M1-2	11	2920	6.44	19.34	7.9	91.2	0.90	35.97	2.2	2.1	3
T3C 160M2-2	15	2918	8.22	25.89	7.9	91.9	0.91	49.09	2.3	2.1	3
T3C 160L-2	18.5	2922	9.48	31.41	8	92.4	0.92	60.46	2.4	2.1	2.9
T3C 180M-2	22	2930	13.39	38.49	7.5	92.7	0.89	71.70	2.3	2	2.8
T3C 200L1-2	30	2925	19.12	52.74	6.7	93.3	0.88	97.94	2.4	2	2.7
T3C 200L2-2	37	2930	21.09	63.33	6.3	93.7	0.90	120.59	2.3	2	2.7
T3C 225M-2	45	2930	28.47	78.52	6.9	94	0.88	146.66	2.3	2	2.8
T3C 250M-2	55	2940	34.68	95.67	8	94.3	0.88	178.64	2.3	1.9	2.7
T3C 280S-2	75	2940	37.50	124.26	8	94.7	0.92	243.60	2.2	1.9	2.7
T3C 280M-2	90	2940	44.85	148.64	7.7	95	0.92	292.33	2.2	1.9	2.6
T3C 315S-2	110	2940	61.71	185.31	7.7	95.2	0.90	357.29	2	1.8	2.3
T3C 315M-2	132	2940	69.70	219.47	7.6	95.4	0.91	428.74	2	1.8	2.3
T3C 315L1-2	160	2945	89.20	267.86	7.8	95.8	0.90	518.81	2	1.8	2.3
T3C 315L2-2	200	2945	117.82	338.58	7.9	95.8	0.89	648.51	2	1.8	2.3
T3C 355M-2	250	2945	139.37	418.53	7.8	95.8	0.90	810.64	2	1.8	2.3
T3C 355L-2	315	2945	185.57	533.27	7.8	95.8	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
T3C 802-4	0.75	1420	0.87	1.73	5.4	82.5	0.76	5.04	2.3	2.1	2.9
T3C 90S-4	1.1	1425	1.17	2.42	5.9	84.1	0.78	7.37	2.3	2.1	2.7
T3C 90L-4	1.5	1420	1.53	3.21	6.4	85.3	0.79	10.09	2.4	2	2.7
T3C 100L1-4	2.2	1430	1.97	4.47	6.6	86.7	0.82	14.69	2.4	2.1	2.9
T3C 100L2-4	3	1430	2.86	6.17	6.9	87.7	0.80	20.03	2.4	2	2.8
T3C 112M-4	4	1435	3.92	8.25	7.9	88.6	0.79	26.62	2.5	2	3
T3C 132S-4	5.5	1430	4.77	10.81	7.1	89.6	0.82	36.73	2.3	2	2.8
T3C 132M-4	7.5	1430	6.19	14.43	7.8	90.4	0.83	50.08	2.3	2	2.7
T3C 160M-4	11	1440	6.06	19.09	7.9	91.4	0.91	72.95	2.5	2.1	2.8
T3C 160L-4	15	1445	7.71	25.55	7.8	92.1	0.92	99.13	2.4	2.1	2.9
T3C 180M-4	18.5	1445	12.49	33.15	7.8	92.6	0.87	122.26	2.4	2.1	3
T3C 180L-4	22	1460	13.35	38.37	7.5	93	0.89	143.89	2.3	2	3
T3C 200L-4	30	1460	19.06	52.57	7.9	93.6	0.88	196.22	2.4	2	2.7
T3C 225S-4	37	1470	32.99	71.09	6.7	93.9	0.80	240.36	2.4	2	2.7
T3C 225M-4	45	1480	39.99	86.19	7	94.2	0.80	290.35	2.3	2	2.8
T3C 250M-4	55	1480	34.57	95.36	7.4	94.6	0.88	354.87	2.4	1.9	2.7
T3C 280S-4	75	1480	39.77	125.22	7.5	95	0.91	483.92	2.2	1.9	2.6
T3C 280M-4	90	1480	44.76	148.32	7.7	95.2	0.92	580.70	2.2	1.9	2.6
T3C 315S-4	110	1480	61.58	184.92	7.8	95.4	0.90	709.75	2	1.8	2.3
T3C 315M-4	132	1480	69.56	219.01	7.8	95.6	0.91	851.69	2	1.8	2.3
T3C 315L1-4	160	1480	84.13	264.91	7.9	95.8	0.91	1032.36	2	1.8	2.3
T3C 315L2-4	200	1480	111.26	334.12	7.7	96	0.90	1290.45	2	1.8	2.3
T3C 355M-4	250	1480	146.97	422.35	7.9	96	0.89	1613.06	2	1.8	2.3
T3C 355L-4	315	1480	175.24	526.25	7.8	96	0.90	2032.45	2	1.8	2.3
6 Pole - 1000 rpm Synchronous Speed 50Hz											
T3C 90S-6	0.75	935	0.91	1.81	6.2	78.9	0.76	7.66	2.2	2	2.7
T3C 90L-6	1.1	935	1.14	2.45	6	81	0.80	11.23	2.3	2.1	2.6
T3C 100L-6	1.5	940	1.41	3.20	5.8	82.5	0.82	15.24	2.3	2.1	2.7
T3C 112M-6	2.2	940	2.18	4.71	6.4	84.3	0.80	22.35	2.3	2.1	2.9
T3C 132S-6	3	940	2.62	6.09	6.3	85.6	0.83	30.48	2.4	2.2	2.8
T3C 132M1-6	4	945	3.30	7.92	6.2	86.8	0.84	40.42	2.5	2	2.8
T3C 132M2-6	5.5	945	4.85	11.00	6.8	88	0.82	55.58	2.3	1.9	2.8
T3C 160M-6	7.5	955	6.03	14.46	7	89.1	0.84	74.99	2.4	1.9	2.7
T3C 160L-6	11	960	8.35	20.69	7.3	90.3	0.85	109.42	2.5	2	2.8
T3C 180L-6	15	960	12.27	28.60	7.8	91.2	0.83	149.21	2.3	2.1	2.9
T3C 200L1-6	18.5	965	13.83	34.26	7.8	91.7	0.85	183.07	2.4	2.1	3.2
T3C 200L2-6	22	965	15.64	40.05	7.9	92.2	0.86	217.70	2.3	1.9	3.1
T3C 225M-6	30	975	22.14	54.84	7.9	92.9	0.85	293.82	2.2	1.9	2.7
T3C 250M-6	37	975	29.59	68.97	7.5	93.3	0.83	362.38	2.3	2.1	2.7
T3C 280S-6	45	980	31.47	80.61	7.2	93.7	0.86	438.49	2.3	2	2.8
T3C 280M1-6	55	980	38.30	98.10	7.7	94.1	0.86	535.93	2.2	1.9	2.7
T3C 315S-6	75	980	44.74	128.58	7.9	94.6	0.89	730.81	2.1	1.9	2.5
T3C 315M-6	90	980	50.65	152.10	8	94.9	0.90	876.98	2	1.8	2.3
T3C 315L1-6	110	980	61.77	185.51	7.7	95.1	0.90	1071.86	2	1.8	2.3
T3C 315L2-6	132	980	78.09	224.40	8	95.4	0.89	1286.23	2	1.8	2.3
T3C 355M1-6	160	980	84.31	265.47	7.6	95.6	0.91	1559.07	2	1.8	2.3
T3C 355M2-6	200	980	111.50	334.82	7.8	95.8	0.90	1948.84	2	1.8	2.3
T3C 355L-6	250	980	147.28	423.23	7.8	95.8	0.89	2436.05	2	1.8	2.3