TECHTOP®

IEC STANDARD MOTORS

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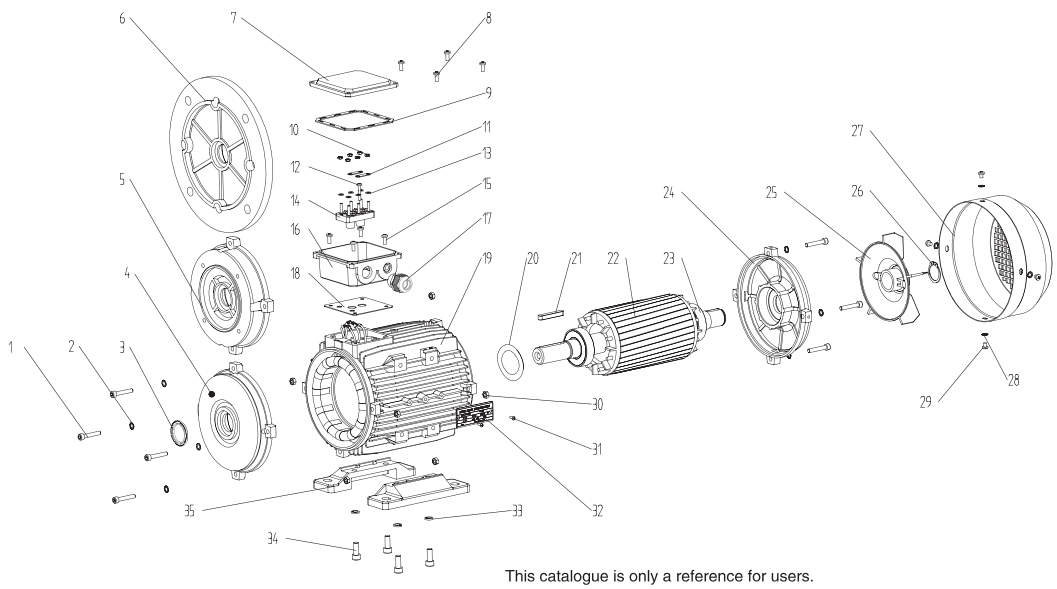
Motor Spare Part List "Exploded Drawing"



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

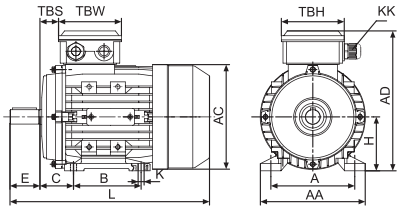
	Standards			Frame Sizes
	CEI 2-14	IEC 60034-7		56-200
		Code I	Code II	
	V1	IM V1	IM 3011	Standard
	V3	IM V3	IM 3031	Upon request
	V5	IM V5	IM 1011	Upon request
	V6	IM V6	IM 1031	Upon request
	V1/V5	IM V15	IM 2011	Upon request

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



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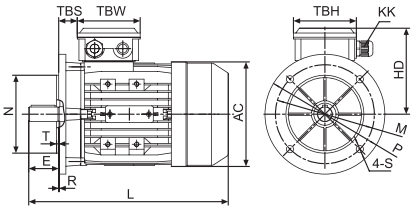

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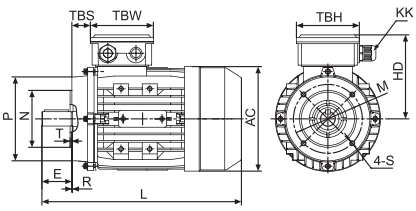

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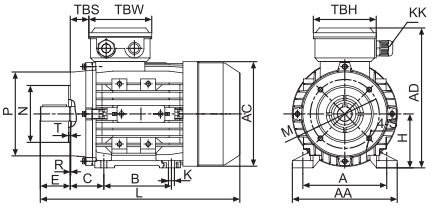

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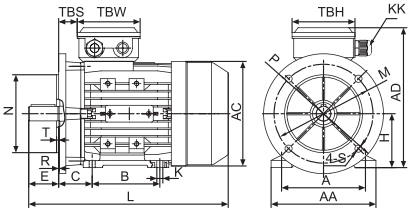

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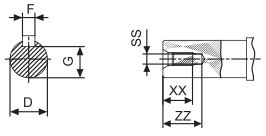


Overall & Installation Dimension

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 thd bigger "L" size (refer to the figures in the bracket "( )")

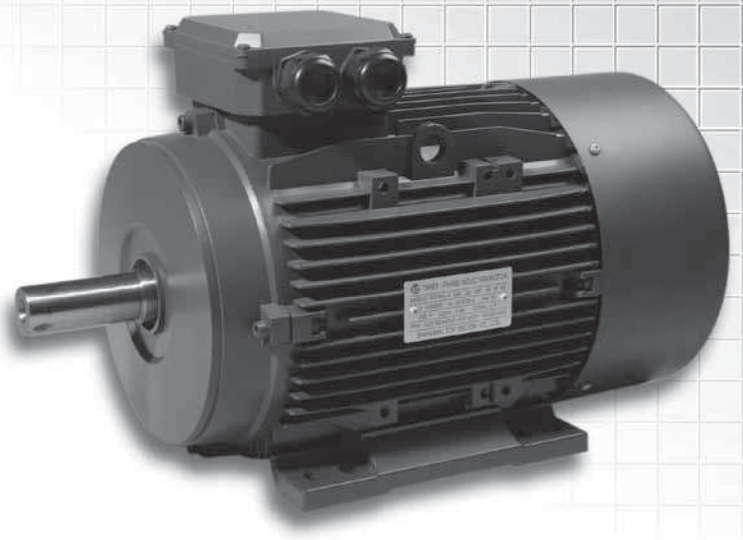
MS Series

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.



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)	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									
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	1.6	1.8	1.3	3	56	15.30
MS100L1-8	0.75	4.45	2.58	1.48	4.24	2.45	1.41	4.08	2.36	1.36	710	66	0.67	1.7	2.1	1.3	3.5	59	17.20
MS100L2-8	1.1	5.81	3.36	1.94	5.54	3.20	1.85	5.33	3.08	1.78	710	72	0.69	1.7	2.1	1.2	3.5	59	19.50
MS112M-8	1.5	7.82	4.53	2.61	7.45	4.30	2.48	7.17	4.15	2.39	710	74	0.68	1.8	2.1	1.2	4.2	61	25.50
MS132S-8	2.2	10.8	6.28	3.61	10.3	5.96	3.44	9.94	5.75	3.31	720	75	0.71	2	2	1.2	5.5	64	34.20
MS132M-8	3	14.0	8.11	4.67	13.3	7.70	4.45	12.8	7.43	4.28	720	77	0.73	2	2	1.2	5.5	64	40.00
MS160M1-8	4	18.0	10.4	5.99	17.1	9.89	5.71	16.5	9.53	5.49	730	80	0.73	1.9	2.1	1.2	6	68	59.00
MS160M2-8	5.5	23.4	13.5	7.79	22.3	12.9	7.42	21.4	12.4	7.14	720	83.5	0.74	2	2.2	1.2	6	68	69.00
MS160L-8	7.5	30.9	17.9	10.3	29.4	17.0	9.8	28.3	16.4	9.43	720	85	0.75	1.9	2.2	1.2	6	68	87.00
MS180L-8	11	45.2	26.2	15.1	43.6	25.1	14.5	41.5	24.0	13.8	715	87.4	0.73	1.9	2.2	1.2	6	78	125.0
MS200L-8	15	58.9	34.1	19.6	56.3	32.4	18.7	54.0	31.2	18.0	725	88.0	0.76	1.9	2.2	1.2	6	80	151.0

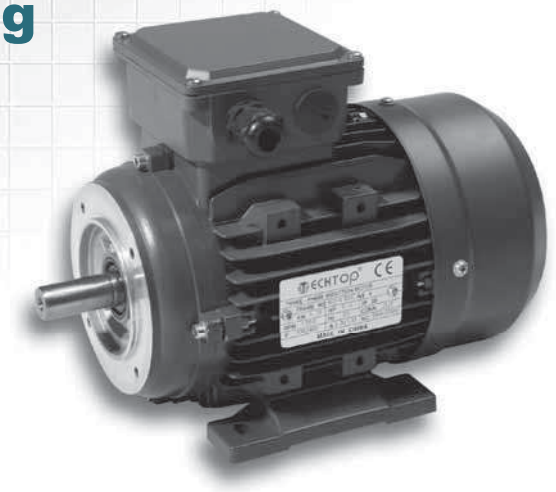
MS2 Series IE2 Efficiency Motors Technical Data (at 400V/50Hz)

Model	Power (KW)	Eff. (%)	Current (A)	Power Factor (CosΦ)	Speed (r/min)	T_{max}/T_n (Times)	T_{st}/T_n (Times)	I_{st}/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

MSD Series

Three-Phase Asynchronous Double-Polarity Motors

Aluminum Housing



Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P
MSD711-2/4	0.3	0.22	2750	1350	60	55	0.8	0.73	0.90	0.79	1.04	1.56	1.7	1.7	3.5	3.5	1.9	1.9
MSD712-2/4	0.45	0.3	2790	1380	63	58	0.8	0.73	1.29	1.02	1.54	2.08	2	2	4	4	2	2
MSD801-2/4	0.55	0.45	2800	1380	65	64	0.84	0.75	1.45	1.35	1.88	3.11	2	2	4.5	4.5	2.1	2.1
MSD802-2/4	0.75	0.6	2800	1400	67	68	0.86	0.77	1.88	1.65	2.56	4.09	1.8	1.8	4.5	4.5	2	2
MSD90S-2/4	1.25	0.95	2820	1400	72	68	0.86	0.82	2.91	2.46	4.23	6.48	2	2	5	5	2	2
MSD90L-2/4	1.7	1.32	2830	1400	73	70	0.86	0.83	3.91	3.28	5.74	9.00	2	2	5	5	2	2
MSD100L1-2/4	2.4	1.84	2830	1410	73	76	0.86	0.83	5.52	4.21	8.10	12.46	2	2	5.5	5	2	2
MSD100L2-2/4	3.3	2.6	2840	1420	74	78	0.86	0.85	7.48	5.66	11.10	17.19	2	1.9	5.5	5	2	1.9
MSD112M-2/4	4.5	4	2860	1430	77	79	0.85	0.86	9.92	8.50	15.03	26.71	2	1.8	5.5	5	2.2	2
MSD132S-2/4	6	5	2860	1440	79	82	0.84	0.86	13.05	10.23	20.03	33.16	2	1.5	5.5	5.5	2.2	1.9
MSD132M-2/4	8	6.6	2870	1440	82	84	0.84	0.86	16.76	13.09	26.62	43.77	2	2	6	6	2.2	2.2
MSD160M-2/4	11	9	2920	1450	84	84	0.85	0.82	22.23	18.86	35.98	59.28	1.8	1.8	7	6	2	2
MSD160L-2/4	15	12	2920	1450	86	84	0.87	0.83	28.94	24.84	49.06	79.03	2	2	7	7	2.2	2.2

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P
MSD801-4/8	0.25	0.15	1380	680	58	40	0.77	0.60	0.81	0.90	1.73	2.11	2	2	4.5	3	2	2
MSD802-4/8	0.45	0.25	1390	685	68	48	0.80	0.60	1.19	1.25	3.09	3.49	1.8	2	4.5	3	2	2
MSD90S-4/8	0.55	0.3	1400	690	68	50	0.83	0.61	1.41	1.42	3.75	4.15	1.8	2	4.5	3.5	2	2
MSD90L-4/8	0.8	0.45	1400	690	68	53	0.83	0.63	2.05	1.95	5.46	6.23	1.8	1.6	4	3	1.9	1.8
MSD100L1-4/8	1.25	0.6	1400	700	69	54	0.82	0.56	3.19	2.86	8.53	8.16	1.8	2	5	3.5	2	2
MSD100L2-4/8	1.76	0.88	1400	700	71	58	0.84	0.56	4.26	3.91	12.00	12.00	1.8	2	5.5	4	2	2
MSD112M-4/8	2.2	1.5	1420	700	75	64	0.82	0.61	5.16	5.54	14.80	20.46	2	2	6	4	2	2
MSD132S-4/8	3.3	2.2	1430	705	78	70	0.84	0.64	7.27	7.09	22.04	29.8	2	2	6	5	2	2
MSD132M-4/8	4.5	3	1430	705	82	77	0.85	0.65	9.32	8.65	30.05	40.64	2	2	6	5	2	2
MSD160M1-4/8	5.5	4	1440	710	82	77	0.81	0.69	11.95	10.87	36.48	53.80	2.1	1.7	7.6	4.6	2.3	2.2
MSD160M2-4/8	7.5	5	1440	710	82	79	0.89	0.78	14.83	11.71	49.74	67.25	1.7	1.6	6.6	4.5	2.3	2.1
MSD160L-4/8	10	7	1450	715	84	82	0.90	0.78	19.09	15.80	65.86	93.50	1.8	1.9	5.5	5	2.3	2.1

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P
MSD801-4/6	0.3	0.22	1400	910	60	55	0.74	0.69	0.98	0.84	2.05	2.31	2	1.8	4.5	4	2	2
MSD802-4/6	0.45	0.3	1410	920	63	58	0.75	0.7	1.37	1.07	3.05	3.11	2	1.8	4.5	4	2	2
MSD90S-4/6	0.66	0.45	1410	920	66	61	0.76	0.65	1.9	1.64	4.47	4.67	1.7	1.7	5	4.5	2	2
MSD90L-4/6	0.88	0.6	1420	930	70	64	0.77	0.67	2.36	2.02	5.92	6.16	1.7	1.7	5	4.5	2	2
MSD100L1-4/6	1.32	0.88	1420	940	72	67	0.85	0.75	3.11	2.3	8.88	8.94	1.8	1.8	6	5	2	2
MSD100L2-4/6	1.76	1.2	1430	950	74	70	0.85	0.75	4.04	3.3	11.75	12.06	1.8	1.8	6	5	2	2
MSD112M-4/6	2.2	1.5	1430	950	76	70	0.8	0.70	5.22	4.42	14.69	15	2	1.8	6	5	2.2	2.2
MSD132S-4/6	3.3	2.2	1440	960	82	78	0.81	0.72	7.17	5.65	21.9	21.9	2	2	7	6	2.2	2.2
MSD132M-4/6	4.5	3	1450	970	83	80	0.82	0.74	9.54	7.31	29.6	29.5	2	2	7	6	2.3	2.3
MSD160M-4/6	6.6	4.5	1460	970	84	81	0.84	0.78	13.5	10.3	43.2	44.3	1.8	1.8	7	6	2.3	2.3
MSD160L-4/6	8.8	6	1460	970	84	81	0.85	0.79	17.8	13.5	57.6	59.1	1.8	1.8	7	6	2.3	2.3

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
MSD801-6/8	0.18	0.11	900	680	50	42	0.69	0.65	0.75	0.58	1.91	1.54	1.5	1.5	3.5	3	1.5	1.5
MSD802-6/8	0.25	0.18	920	700	54	46	0.7	0.66	0.95	0.86	2.60	2.46	1.7	1.5	3.5	3	1.5	1.7
MSD90S-6/8	0.37	0.25	930	680	58	50	0.72	0.68	1.28	1.06	3.80	3.51	1.5	1.4	4	3	1.8	1.7
MSD90L-6/8	0.55	0.37	940	685	63	54	0.73	0.69	1.73	1.43	5.59	5.16	1.5	1.4	4	3	1.8	1.7
MSD100L1-6/8	0.75	0.55	950	700	69	63	0.74	0.74	2.12	1.70	7.54	7.50	1.5	1.4	5	4	2	1.8
MSD100L2-6/8	1.03	0.75	955	705	71	65	0.76	0.76	2.76	2.19	10.30	10.16	1.5	1.4	5	4	2	1.8
MSD112M-6/8	1.25	0.95	960	710	72	64	0.71	0.71	3.53	3.02	12.43	12.78	1.5	1.5	5	4	2	1.8
MSD132S-6/8	2.2	1.5	970	720	76	70	0.71	0.7	5.88	4.42	21.66	19.90	1.6	1.4	6	5.5	2.3	2
MSD132M-6/8	3	1.85	970	720	78	74	0.71	0.7	7.82	5.01	29.54	24.37	1.6	1.4	6	5.5	2.3	2
MSD160M1-6/8	3.7	2.6	970	720	78	75	0.74	0.71	9.25	7.05	36.43	34.49	1.8	1.5	6	5.5	2.5	1.9
MSD160M2-6/8	4.5	3.3	970	720	79	76	0.78	0.72	10.54	8.70	44.30	43.77	1.8	1.7	6	5.5	2.5	2
MSD160L-4/6	6	4.5	973	720	80	77	0.79	0.73	13.70	11.55	59.89	59.69	1.8	1.7	6	5.5	2.5	2

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P
MSD801-2/8	0.37	0.08	2760	660	65	33	0.76	0.48	1.08	0.73	1.28	1.16	1.7	2	3.5	2.5	1.9	2.1
MSD802-2/8	0.55	0.11	2780	670	67	35	0.78	0.50	1.52	0.91	1.89	1.57	1.7	2	4	3	1.9	2.2
MSD90S-2/8	0.75	0.18	2800	670	67	43	0.79	0.52	2.05	1.16	2.56	2.57	1.8	2	4	3	2	2.3
MSD90L-2/8	1.1	0.3	2810	680	67	45	0.8	0.54	2.96	1.78	3.74	4.21	1.8	2	4	3.5	2	2.3
MSD100L1-2/8	1.5	0.37	2820	700	67	50	0.84	0.56	3.85	1.91	5.08	5.05	1.7	2.1	5	3.5	2	2.6
MSD100L2-2/8	2.2	0.55	2820	710	68	51	0.85	0.58	5.49	2.68	7.45	7.40	1.8	2.2	5	3.5	2	2.6
MSD112M1-2/8	2.6	0.75	2840	710	71	58	0.86	0.6	6.15	3.11	8.74	10.09	1.8	1.8	5.5	4	1.9	1.9
MSD112M2-2/8	3	0.9	2850	710	75	63	0.86	0.58	6.71	3.56	10.05	12.1	1.7	2	6.5	4.5	1.9	2.2
MSD132S-2/8	3.7	1.1	2890	710	81	65	0.83	0.57	7.94	4.29	12.22	14.80	1.7	1.7	7	5	1.9	1.9
MSD132M-2/8	5.5	1.5	2900	720	82	66	0.85	0.57	11.39	5.75	18.11	19.90	1.8	1.8	7	5	1.9	1.9
MSD160M-2/8	7.5	2.2	2900	720	80	73	0.87	0.58	15.55	7.50	24.70	29.18	2.3	2.5	7	5	2.3	2.5
MSD160L-2/8	9.5	3	2920	720	82	73	0.87	0.58	19.22	10.23	31.07	39.79	2.3	2.5	7	5	2.3	2.5

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P
MSD712-2/4	0.55	0.12	2850	1410	75	57	0.78	0.55	1.5	0.7	1.8	0.8	2.7	3.3	6	4	2.7	3.2
MSD802-2/4	0.75	0.19	2860	1430	75	59	0.82	0.6	2	1	2.4	1.2	3.3	2.8	7	4	2.6	2.8
MSD802-2/4	1.1	0.28	2870	1430	79	64	0.82	0.59	2.8	1.5	3.6	1.8	3.4	2.5	7.5	4.6	2.8	2.8
MSD90S-2/4	1.5	0.38	2880	1440	82	71	0.84	0.6	3.5	1.5	4.9	2.5	2.6	3.2	7.5	5.5	3.3	3.5
MSD90L-2/4	2.2	0.55	2880	1440	83	73	0.86	0.62	4.5	2	7.2	3.5	3.6	3.6	8	5.8	3.3	3.2
MSD100L1-2/4	3	0.8	2850	1430	81	77	0.9	0.72	6	2.2	10	5.2	2.1	1.9	8	5.5	2.8	2.5
MSD112M-2/4	4	1	2910	1450	85	80	0.86	0.67	8	3	13	6	3.2	3.2	10.5	8	3.4	3.7
MSD112M-2/4	4.5	1.3	2900	1440	84	81	0.93	0.81	8.5	3	14	8	2.3	1.9	9.5	6.5	2.9	2.6
MSD132S-2/4	5.5	1.4	2900	1450	85	82	0.9	0.73	10.5	3.5	18	9	2.7	2.1	9.5	6.5	3	3
MSD132S-2/4	6	1.6	2890	1440	83	80	0.92	0.79	11.5	3.9	19	10	2.5	1.8	9	6	2.9	2.7
MSD132M-2/4	9	2.5	2920	1450	86	82	0.91	0.79	17	6	29	16	2.5	1.8	10.3	6.8	2.5	2.7
MSD160M-2/4	15	3.7	3930	1460	86	86	0.91	0.76	28	8.5	48	24	2.5	2.3	8	6.4	2.9	2.6
MSD160L-2/4	18.5	4.4	2940	1470	88	87	0.91	0.74	34	10.5	59	58	3	2.7	9.5	7	3.2	3

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P
MSD711-4/8	0.25	0.03	1370	710	53	30	0.67	0.44	1.2	0.5	1.7	0.4	2.4	2.5	3.5	2.8	2.5	4.8
MSD712-4/8	0.33	0.04	1360	710	58	34	0.71	0.45	1.5	0.5	2.3	0.5	2.2	4.1	4	3	2.5	4.6
MSD712-4/8	0.37	0.09	1360	650	58	45	0.69	0.61	1.5	0.5	2.5	1.3	2.4	2	3.5	2.5	2.5	2
MSD801-4/8	0.55	0.09	1410	710	64	43	0.7	0.49	2	1	3.7	1.1	2	2.6	4.5	3.5	2.5	3.6
MSD802-4/8	0.75	0.19	1430	710	76	59	0.82	0.6	1.8	0.8	2.4	1.2	3.3	2.8	7	4	2.6	2.8
MSD90S-4/8	1.1	0.18	1400	710	75	53	0.79	0.47	3	1.5	7.4	2.4	2.3	3	5.8	3.6	2.5	3.5
MSD90L-4/8	1.5	0.25	1380	700	75	57	0.83	0.49	4	1.5	10	3	2.2	2.8	5.8	3.6	2.4	3.3
MSD100L1-4/8	2.2	0.37	1430	720	79	62	0.8	0.46	4	2	14	4.5	2.1	2.5	7	4.5	2.7	3.5
MSD100L2-4/8	3	0.55	1420	710	80	67	0.82	0.5	6.6	2.5	20	7.3	2	2.3	6.9	4	2.5	3
MSD112M-4/8	4	0.75	1440	720	82	72	0.84	0.53	8.5	3	26.5	9.9	1.9	1.9	7.5	4.5	2.5	2.8
MSD132S-4/8	5.5	1.1	1450	720	84	74	0.85	0.54	11	4	36	14	2.1	1.5	8.5	5	2.5	2.8
MSD132M-4/8	7.5	1.5	1450	720	85	75	0.83	0.51	15	5.8	49	19	2.2	2	9.2	5	3	3
MSD160M-4/8	8.9	2	1460	730	87	79	0.83	0.53	18	7	58	26	2.4	1.7	8.7	4.5	3	2.6
MSD160L-4/8	11	2.8	1460	720	88	81	0.83	0.58	22	8.5	71	36	2.3	1.4	8	4	2.7	1.8
MSD160L-4/8	15	3.5	1460	720	89	82	0.83	0.56	12.5	11.5	97	45	2.2	1.6	7.5	4	2.9	2
MSD180M-4/8	18.5	4.6	1470	730	90	84	0.84	0.55	35	14	119	59	2.5	2.3	9	5.5	3	2.8
MSD180L-4/8	22	5.5	1470	730	90	83	0.85	0.6	40	16	142	71	2.4	2.1	9.5	5.5	3	2.8

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P
MSD71S-4/6	0.25	0.09	1380	950	48	41	0.68	0.64	1.3	0.5	1.7	0.9	2.4	2	3	2.5	2.2	2.1
MSD801-4/6	0.37	0.12	1420	960	59	47	0.68	0.58	1.5	0.7	2.4	1.1	2	2.2	4.5	4	2.3	2.9
MSD802-4/6	0.55	0.16	1420	960	64	53	0.72	0.56	1.8	0.8	3.6	1.5	1.7	2.4	4.5	4.2	2.2	3.2
MSD90S-4/6	0.75	0.25	1410	950	65	59	0.74	0.65	2.5	0.9	5	2.4	1.8	1.6	4.5	4.2	2.1	2.3
MSD90L1-4/6	1.1	0.37	1410	950	68	64	0.74	0.68	3.2	1.5	7.4	3.7	1.9	2	4.5	4.2	2.1	2.2
MSD90L2-4/6	1.5	0.5	1420	950	73	68	0.77	0.7	4	1.6	10	4.8	1.9	1.9	5.5	5	2.1	2.3
MSD100L1-4/6	1.7	0.6	1430	960	75	68	0.77	0.73	4.5	2	11	5.5	1.9	1.6	5.5	5	2.2	2.1
MSD100L2-4/6	2.2	0.75	1430	950	80	69	0.83	0.69	5	2.4	14.5	7.5	2.4	1.7	6.5	4.3	2.5	2.2
MSD100L2-4/6	3	0.9	1430	950	77	68	0.77	0.7	7.5	3	19	8	2.7	1.7	6	4.6	2.5	2.2
MSD112M-4/6	3	1	1440	950	82	72	0.84	0.72	6.5	3	19.5	9.5	2.2	1.3	7.5	4.5	2.5	2.1
MSD132S-4/6	4	1.3	1440	960	80	73	0.81	0.73	9	4	26	12.5	2.3	1.3	3.8	5.5	2.4	2.1
MSD132M1-4/6	5.5	1.6	1450	970	83	75	0.81	0.71	12	4.5	36	15	2.4	1.4	7.8	6	2.4	2.2
MSD132M1-4/6	6	2	1450	970	84	77	0.8	0.74	13	5.5	39	19	2.5	1.5	7.8	6	2.8	2.2
MSD132M1-4/6	7.5	2.2	1450	970	85	72	0.86	0.74	15	6.2	49	21	2.2	1.4	8	5.5	2.7	2.2
MSD160M-4/6	11	3.3	1460	970	86	77	0.85	0.75	22	8.5	71	32	2.5	1.3	8	4.8	3	1.9
MSD160L-4/6	15	5	1450	970	88	80	0.86	0.73	29	12.5	98	48	2.2	1.9	9	6	2.3	2.3

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
MSD802-6/8	0.37	0.18	940	710	64	53	0.67	0.57	1.3	0.9	3.7	2.4	2.3	2.4	4.5	3.5	2.5	2.7
MSD90S-6/8	0.75	0.32	940	710	70	57	0.73	0.61	2.1	1.4	7.5	4.2	1.9	1.6	4.6	3.3	2.5	2.2
MSD90L-6/8	1.1	0.46	940	710	67	52	0.67	0.63	4	2.4	11	6	1.8	1.6	4	3.5	2.2	1.9
MSD100L-6/8	1.5	0.63	950	710	75	62	0.72	0.66	4.3	2.5	14.5	8	2.1	1.7	5.2	4	2.3	2
MSD112M-6/8	2.2	0.93	950	720	79	68	0.75	0.62	5.5	3.5	21	12	2.6	1.7	6	4.2	2.5	2.3
MSD132S-6/8	3	1.3	970	730	83	72	0.76	0.6	7	4.5	29	16	2.4	1.8	7	4.6	2.6	2.4
MSD132M-6/8	4	1.7	970	730	83	74	0.77	0.6	9.3	5.8	39	22	2.4	1.9	7	5	2.5	2.5

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T_{st}/T_n (Times)		I_{st}/I_n (Times)		T_{max}/T_n (Times)	
	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P
MSD802-6/12	0.37	0.06	930	450	59	30	0.71	0.57	1.3	0.5	3.7	1.2	1.6	1.9	3.5	2	1.9	2
MSD802-6/12	0.55	0.08	930	450	64	38	0.74	0.57	1.7	0.53	5.6	1.7	1.6	1.8	4	2	2	2
MSD90S-6/12	0.75	0.1	930	460	66	41	0.75	0.47	2.2	0.8	7	2	1.4	1.8	3.6	2	1.9	2.2
MSD90L-6/12	1.1	0.15	930	460	67	42	0.73	0.46	3.2	1.2	11	3	1.7	2.1	3.8	2	2	2.3
MSD100L-6/12	1.5	0.2	940	470	73	48	0.75	0.44	4	1.5	15	4	2.1	3.2	4.8	1.5	2.4	3.1
MSD112M-6/12	2.2	0.3	950	470	77	54	0.74	0.41	5.5	2	22	6	2.2	3	5.3	2.7	2.5	3.2
MSD132S-6/12	3	0.4	960	480	77	51	0.7	0.39	8	2.9	29	7	2.6	3.4	6	3.5	3	3.9
MSD132M1-6/12	4	0.55	970	480	80	57	0.72	0.39	10	3.6	39	10	2.7	3.4	6.5	3.6	3.2	4.2
MSD132M2-6/12	5.5	0.75	970	480	81	59	0.73	0.39	13.5	4.7	54	14	2.9	3.5	7	3.5	2.7	3.9
MSD112M-4/6	3	1	1440	950	82	72	0.84	0.72	6.5	3	19.5	9.5	2.2	1.3	7.5	4.5	2.5	2.1
MSD132S-4/6	4	1.3	1440	960	80	73	0.81	0.73	9	4	26	12.5	2.3	1.3	3.8	5.5	2.4	2.1
MSD132M1-4/6	5.5	1.6	1450	970	83	75	0.81	0.71	12	4.5	36	15	2.4	1.4	7.8	6	2.4	2.2
MSD132M1-4/6	6	2	1450	970	84	77	0.8	0.74	13	5.5	39	19	2.5	1.5	7.8	6	2.8	2.2
MSD132M1-4/6	7.5	2.2	1450	970	85	72	0.86	0.74	15	6.2	49	21	2.2	1.4	8	5.5	2.7	2.2

MSBCCL Series

Asynchronous Three-Phase Brake Motors With Squirrel Cage Rotor · Direct Current Brake

· MSBCCL series-enclosed construction externally ventilated-sizes 63~160

The brake–motors of the MSBCCL series result from coupling an asynchronous three–phase motor and an electromagnetic D.C. brake unit. Due to their reliability and operating safety, as well as their quick braking time (connection & disconnection time = 5~80 milliseconds) they are suitable for a great variety of applications, such as:

- Braking of loads or torques on the driving shaft.
- Braking of rotating masses to reduce any lost–time.
- Braking operations to increase the set–up precision.
- Braking of machine parts,according to safely rules.

2 poles-3000rpm-50Hz

Brake motors have a ±6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Current (A)			T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise dB(A)
					230V	400V	690V					
MSBCCL631-2	0.18	2710	63	0.75	0.95	0.55	0.32	2.2	2.4	1.6	6	61
MSBCCL632-2	0.25	2710	65	0.78	1.23	0.71	0.41	2.2	2.4	1.6	6	61
MSBCCL633-2	0.37	2710	65	0.78	1.82	1.05	0.61	2.2	2.4	1.6	6	62
MSBCCL711-2	0.37	2730	70	0.79	1.67	0.97	0.56	2.2	2.4	1.6	6	64
MSBCCL712-2	0.55	2760	71	0.79	2.45	1.42	0.82	2.2	2.4	1.6	6	64
MSBCCL713-2	0.75	2730	72	0.82	3.18	1.83	1.06	2.2	2.4	1.5	6	65
MSBCCL801-2	0.75	2770	73	0.84	3.06	1.77	1.02	2.2	2.4	1.5	6	67
MSBCCL802-2	1.1	2770	76.2	0.83	4.35	2.51	1.45	2.2	2.4	1.5	6	67
MSBCCL803-2	1.5	2800	78.5	0.83	5.87	3.32	1.92	2.2	2.4	1.5	6	70
MSBCCL90S-2	1.5	2840	78.5	0.84	5.76	3.28	1.90	2.2	2.4	1.5	6	72
MSBCCL90L1-2	2.2	2840	81	0.85	8.0	4.61	2.66	2.2	2.4	1.4	6	72
MSBCCL90L2-2	3	2840	82.6	0.86	10.56	6.10	3.52	2.2	2.4	1.4	6	74
MSBCCL100L1-2	3	2840	82.6	0.87	10.44	6.03	3.48	2.2	2.3	1.4	7	76
MSBCCL100L2-2	4	2850	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
MSBCCL112M-2	4	2880	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
MSBCCL112L-2	5.5	2880	85.7	0.88	18.23	10.53	6.08	2.2	2.3	1.2	7.5	78
MSBCCL132S1-2	5.5	2900	85.7	0.88	18.23	10.53	6.08	2	2.2	1.2	7.5	80
MSBCCL132S2-2	7.5	2920	87	0.88	24.49	14.14	8.16	2	2.2	1.2	7.5	80
MSBCCL132M1-2	9.2	2930	88	0.89	29.87	17.25	9.96	2	2.2	1.2	7.5	81
MSBCCL132M2-2	11	2930	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	83
MSBCCL160M1-2	11	2940	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	86
MSBCCL160M2-2	15	2940	89.4	0.91	46.09	26.61	15.36	2	2.2	1.2	7.5	86
MSBCCL160L-2	18.5	2940	90	0.91	56.47	32.6	18.82	2	2.2	1.1	7.5	86

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd^2 Kgm^2	No.of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
MSBCCL63	K 1	5	15	0.00005	3000	45	20	10	62
MSBCCL 71	K 2	12	20	0.00014	3000	50	30	15	64
MSBCCL 80	K 3	16	25	0.00021	1300	55	30	15	67
MSBCCL 90S	K 4	20	30	0.00039	1100	65	40	15	72
●MSBCCL 90S	K 4 D	40	30	0.00078	1100	65	40	15	72
MSBCCL 90 L	K 4	20	30	0.00039	1100	65	40	15	72
●MSBCCL 90 L	K 4 D	40	30	0.00078	1100	65	40	15	72
MSBCCL 100 L	K 5	40	45	0.00104	900	75	45	20	76
●MSBCCL 100 L	K 6	60	50	0.00135	900	180	85	25	76
MSBCCL 112 MT	K 5	40	45	0.00104	880	75	45	20	77
MSBCCL 112 M	K 6	60	50	0.00135	880	180	85	25	78
MSBCCL 132 S	K 7	90	55	0.00219	480	200	95	50	80
●MSBCCL 132 S	K 7 D	180	55	0.00438	480	200	95	50	80
MSBCCL 132 M	K 7	90	55	0.00219	450	200	95	50	80
●MSBCCL 132 M	K 7 D	180	55	0.00438	480	200	95	50	80
MSBCCL 160 MT	K 7 D	180	55	0.00438	350	200	95	50	86
MSBCCL 160 L	K 8	200	60	0.00408	350	210	100	60	86
●MSBCCL 160 L	K 8 D	400	60	0.00816	350	210	100	60	86

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

Technical Features

4 poles-1500rpm-50Hz

Brake motors have a ±6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Current (A)			T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise dB(A)
					230V	400V	690V					
MSBCCL631-4	0.12	1350	57	0.64	0.82	0.47	0.27	2.2	2.4	1.7	6	52
MSBCCL632-4	0.18	1350	59	0.65	1.17	0.68	0.39	2.2	2.4	1.7	6	52
MSBCCL633-4	0.25	1350	60	0.66	1.58	0.91	0.53	2.2	2.4	1.7	6	54
MSBCCL711-4	0.25	1350	60	0.72	1.45	0.84	0.48	2.2	2.4	1.7	6	55
MSBCCL712-4	0.37	1370	65	0.74	1.92	1.11	0.64	2.2	2.4	1.7	6	55
MSBCCL713-4	0.55	1380	66	0.75	2.78	1.60	0.93	2.2	2.4	1.7	6	57
MSBCCL801-4	0.55	1370	67	0.75	2.74	1.58	0.91	2.2	2.4	1.7	6	58
MSBCCL802-4	0.75	1380	72	0.78	3.34	1.93	1.11	2.2	2.4	1.6	6	58
MSBCCL803-4	1.1	1390	76.2	0.78	4.63	2.67	1.54	2.2	2.4	1.6	6	60
MSBCCL90S-4	1.1	1400	76.2	0.79	4.57	2.64	1.52	2.2	2.4	1.6	6	61
MSBCCL90L-4	1.5	1400	78.5	0.8	5.97	3.45	1.99	2.2	2.4	1.6	6	61
MSBCCL90L2-4	2.2	1400	81	0.8	8.45	4.90	2.83	2.2	2.4	1.5	7	63
MSBCCL100L1-4	2.2	1420	81	0.81	8.38	4.84	2.79	2.2	2.3	1.5	7	64
MSBCCL100L2-4	3	1420	82.6	0.81	11.21	6.47	3.74	2.2	2.3	1.5	7	64
MSBCCL100L3-4	4	1430	84.2	0.82	14.18	8.36	4.83	2.2	2.3	1.5	7	65
MSBCCL112M-4	4	1430	84.2	0.83	14.31	8.26	4.77	2.2	2.2	1.5	7	65
MSBCCL112L-4	5.5	1440	85.7	0.83	19.33	11.16	6.44	2.2	2.2	1.4	7	68
MSBCCL132S-4	5.5	1450	85.7	0.84	19.1	11.03	6.37	2.2	2.2	1.4	7	71
MSBCCL132M-4	7.5	1450	87	0.85	25.35	14.64	8.45	2.2	2.2	1.4	7	71
MSBCCL132L1-4	9.2	1460	87.5	0.85	30.92	17.85	10.31	2.2	2.2	1.4	7.5	74
MSBCCL132L2-4	10	1460	88	0.85	33.42	19.3	11.14	2.2	2.2	1.4	7.5	74
MSBCCL132L2-4	11	1460	88.4	0.86	36.17	20.88	12.06	2.2	2.2	1.4	7.5	74
MSBCCL160M-4	11	1460	88.4	0.87	35.76	20.64	11.92	2.2	2.2	1.4	7	75
MSBCCL160L-4	15	1460	88.4	0.87	48.76	28.15	16.25	2.2	2.2	1.4	7.5	75

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd^2 Kgm^2	No.of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
MSBCCL63	K 1	5	15	0.00005	3000	45	20	10	52
MSBCCL 71	K 2	12	20	0.00014	3000	50	30	15	55
MSBCCL 80	K 3	16	25	0.00021	1300	55	30	15	58
MSBCCL 90S	K 4	20	30	0.00039	1100	65	40	15	61
●MSBCCL 90S	K 4 D	40	30	0.00078	1100	65	40	15	61
MSBCCL 90 L	K 4	20	30	0.00039	1100	65	40	15	63
●MSBCCL 90 L	K 4 D	40	30	0.00078	1100	65	40	15	63
MSBCCL 100 L	K 5	40	45	0.00104	900	75	45	20	64
●MSBCCL 100 L	K 6	60	50	0.00135	900	180	85	25	65
MSBCCL 112 MT	K 5	40	45	0.00104	880	75	45	20	65
MSBCCL 112 M	K 6	60	50	0.00135	880	180	85	25	65
MSBCCL 132 S	K 7	90	55	0.00219	480	200	95	50	71
●MSBCCL 132 S	K 7 D	180	55	0.00438	480	200	95	50	71
MSBCCL 132 M	K 7	90	55	0.00219	450	200	95	50	71
●MSBCCL 132 M	K 7 D	180	55	0.00438	480	200	95	50	71
MSBCCL 160 MT	K 7 D	180	55	0.00438	350	200	95	50	75
MSBCCL 160 L	K 8	200	60	0.00408	350	210	100	60	75
●MSBCCL 160 L	K 8 D	400	60	0.00816	350	210	100	60	75

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

6 poles-1000rpm-50Hz

Brake motors have a ±6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Current (A)			T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise dB(A)
					230V	400V	690V					
MSBCCL631-6	0.09	840	42	0.61	0.88	0.51	0.29	2	2	1.5	3.5	50
MSBCCL632-6	0.12	850	45	0.62	1.08	0.62	0.36	2	2	1.5	3.5	50
MSBCCL711-6	0.18	880	56	0.66	1.22	0.70	0.41	1.6	1.7	1.5	4	52
MSBCCL712-6	0.25	900	59	0.7	1.51	0.87	0.50	2.1	2.2	1.5	4	52
MSBCCL713-6	0.37	890	61	0.69	2.2	1.27	0.73	2	2.1	1.5	4	54
MSBCCL801-6	0.37	900	62	0.7	2.13	1.23	0.71	1.9	1.9	1.5	4	56
MSBCCL802-6	0.55	900	67	0.72	2.85	1.65	0.95	2	2.3	1.5	4	56
MSBCCL803-6	0.75	900	68	0.72	3.83	2.21	1.28	2	2.3	1.5	4	58
MSBCCL90S-6	0.75	920	69	0.72	3.77	2.18	1.26	2.2	2.2	1.5	5.5	59
MSBCCL90L-6	1.1	925	72	0.73	5.23	3.02	1.74	2.2	2.2	1.3	5.5	59
MSBCCL100L-6	1.5	945	74	0.76	6.67	3.85	2.22	2.2	2.2	1.3	6	61
MSBCCL112M-6	2.2	955	78	0.76	9.28	5.36	3.09	2.2	2.2	1.3	6	64
MSBCCL132S-6	3	960	79	0.76	12.49	7.21	4.16	2	2	1.3	6.5	64
MSBCCL132M1-6	4	960	80.5	0.76	16.35	9.44	5.45	2	2	1.3	6.5	68
MSBCCL132M2-6	5.5	960	83	0.77	21.51	12.42	7.17	2	2	1.3	6.5	68
MSBCCL132L-6	7.5	960	85	0.77	28.65	16.54	9.55	2	2	1.3	6.5	68
MSBCCL160M-6	7.5	960	86	0.8	27.25	15.73	9.08	2	2.2	1.3	6.5	68
MSBCCL160L-6	11	960	87.5	0.79	39.78	22.97	13.26	2	2.2	1.2	6.5	73

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd^2 Kgm^2	No.of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
MSBCCL63	K 1	5	15	0.00005	3000	45	20	10	50
MSBCCL 71	K 2	12	20	0.00014	3000	50	30	15	52
MSBCCL 80	K 3	16	25	0.00021	1300	55	30	15	56
MSBCCL 90S	K 4	20	30	0.00039	1100	65	40	15	59
●MSBCCL 90S	K 4 D	40	30	0.00078	1100	65	40	15	59
MSBCCL 90 L	K 4	20	30	0.00039	1100	65	40	15	59
●MSBCCL 90 L	K 4 D	40	30	0.00078	1100	65	40	15	59
MSBCCL 100 L	K 5	40	45	0.00104	900	75	45	20	61
●MSBCCL 100 L	K 6	60	50	0.00135	900	180	85	25	61
MSBCCL 112 MT	K 5	40	45	0.00104	880	75	45	20	64
MSBCCL 112 M	K 6	60	50	0.00135	880	180	85	25	64
MSBCCL 132 S	K 7	90	55	0.00219	480	200	95	50	64
●MSBCCL 132 S	K 7 D	180	55	0.00438	480	200	95	50	64
MSBCCL 132 M	K 7	90	55	0.00219	450	200	95	50	68
●MSBCCL 132 M	K 7 D	180	55	0.00438	480	200	95	50	68
MSBCCL 160 MT	K 7 D	180	55	0.00438	350	200	95	50	68
MSBCCL 160 L	K 8	200	60	0.00408	350	210	100	60	73
●MSBCCL 160 L	K 8 D	400	60	0.00816	350	210	100	60	73

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

Technical Features

8 poles-750rpm-50Hz

Brake motors have a ±6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Current (A)			T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise dB(A)
					230V	400V	690V					
MSBCCL711-8	0.09	680	48	0.56	0.84	0.48	0.28	1.5	1.7	1.3	3	50
MSBCCL712-8	0.12	690	51	0.59	1.00	0.58	0.33	1.6	1.7	1.3	2.7	50
MSBCCL801-8	0.18	680	51	0.61	1.45	0.84	0.48	1.5	1.7	1.3	2.8	52
MSBCCL802-8	0.25	680	56	0.61	1.83	1.06	0.61	1.6	2	1.3	2.7	52
MSBCCL90S-8	0.37	680	63	0.63	2.33	1.35	0.78	1.6	1.8	1.3	2.8	56
MSBCCL90L-8	0.55	680	66	0.65	3.21	1.85	1.07	1.6	1.8	1.3	3	56
MSBCCL100L1-8	0.75	710	66	0.67	4.24	2.45	1.41	1.7	2.1	1.3	3.5	59
MSBCCL100L2-8	1.1	710	72	0.69	5.54	3.20	1.85	1.7	2.1	1.2	3.5	59
MSBCCL112M-8	1.5	710	74	0.68	7.45	4.30	2.48	1.8	2.1	1.2	4.2	61
MSBCCL132S-8	2.2	720	75	0.71	10.33	5.96	3.44	2	2	1.2	5.5	64
MSBCCL132M-8	3	720	77	0.73	13.34	7.70	4.45	2	2	1.2	5.5	64
MSBCCL160M1-8	4	730	80	0.73	17.12	9.89	5.71	1.9	2.1	1.2	6	68
MSBCCL160M2-8	5.5	720	83.5	0.74	22.25	12.85	7.42	2	2.2	1.2	6	68
MSBCCL160L-8	7.5	720	85	0.75	29.41	17.0	9.8	1.9	2.2	1.2	6	68

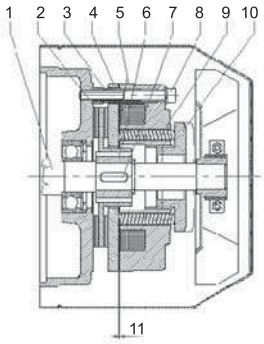
Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd^2 Kgm^2	No.of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
63 MSBCCL	K 1	5	15	0.00005	3000	45	20	10	50
71 MSBCCL	K 2	12	20	0.00014	3000	50	30	15	50
80 MSBCCL	K 3	16	25	0.00021	1300	55	30	15	52
90 S MSBCCL	K 4	20	30	0.00039	1100	65	40	15	56
●90 S MSBCCL	K 4 D	40	30	0.00078	1100	65	40	15	56
90 L MSBCCL	K 4	20	30	0.00039	1100	65	40	15	56
●90 L MSBCCL	K 4 D	40	30	0.00078	1100	65	40	15	56
100 L MSBCCL	K 5	40	45	0.00104	900	75	45	20	59
●100 L MSBCCL	K 6	60	50	0.00135	900	180	85	25	59
112 MT MSBCCL	K 5	40	45	0.00104	880	75	45	20	61
112 M MSBCCL	K 6	60	50	0.00135	880	180	85	25	61
132 S MSBCCL	K 7	90	55	0.00219	480	200	95	50	64
●132 S MSBCCL	K 7 D	180	55	0.00438	480	200	95	50	64
132 M MSBCCL	K 7	90	55	0.00219	450	200	95	50	64
●132 M MSBCCL	K 7 D	180	55	0.00438	480	200	95	50	64
160 MT MSBCCL	K 7 D	180	55	0.00438	350	200	95	50	68
160 L MSBCCL	K 8	200	60	0.00408	350	210	100	60	68
●160 L MSBCCL	K 8 D	400	60	0.00816	350	210	100	60	68

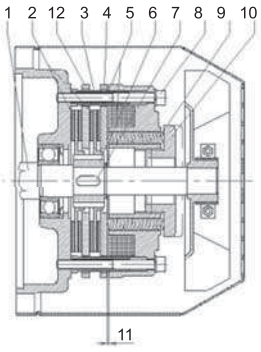
● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

Operating Principle

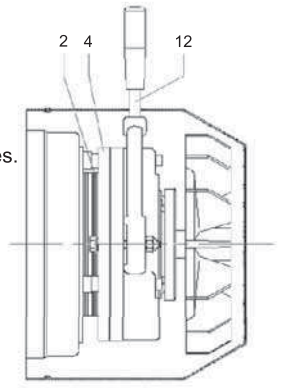
The direct current brake is fed by means of an electronic circuit with diode bridge (rectifier) situated inside the terminal-box. When feeding the electromagnet (5), the movable anchor (4) is attracted towards the same, thus loading the braking torque springs (9) and allowing the disk (2), equipped with friction packing and fitted on the groove hub (6) to turn solitary the motor shaft (1) by means of a key (7). By interrupting the feeding, the movable anchor (4), pushed by the braking torque springs (9), exerts a pressure upon the friction surface of the disk (2), thus causing its stopping.





Adjustment Of The Air Gap

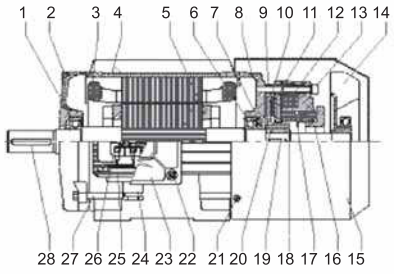
The air gap (11) is the distance between the electromagnet (5) and the movable anchor (9).
The air gap has to be regularly checked, since due to the wear of the friction packing (2) it tends to increase.
Act no the brake adjusters (3) after having unloosen the screws (8) to bring the air gap to the required value.
Act on the ring nut (10) which acts on the braking torque springs (9) to adjust the braking torque.
Pls. contact our technical department for information on the air gap adjustment values.



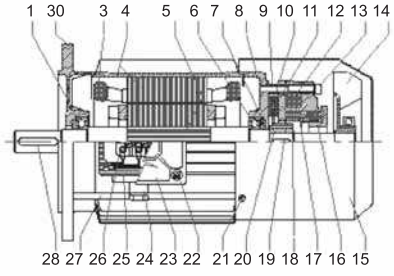
Hand Release With Lever

Upon request a hand release with lever can be supplied.
In case of a current cutoff, acting on the lever (12), the release, connected to the movable anchor (4) overcomes the springs pressure, thus detaching the movable anchor from the disc friction packing (2) allowing the shaft to turn.

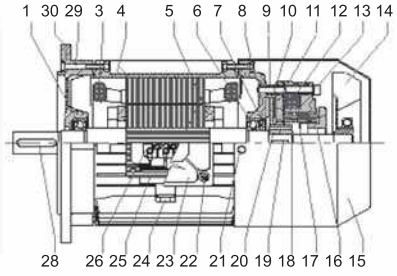
MSBCCL Brake Motors B3 63~160



MSBCCL Brake Motors B5 63~112



MSBCCL Brake Motors B5 132~160



Spare Parts

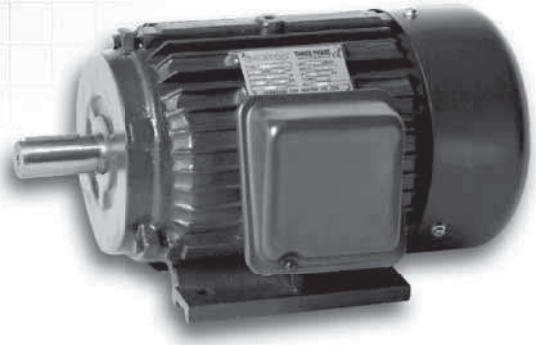
1. Front bearing
2. Front shield
3. Winding
4. Frame with stator package
5. Shaft with rotor
6. Rear bearing
7. Spring
8. Rear shield
9. Adjusting bush
10. Brake disc
11. Moving anchor
12. Electromagnet coil with diode
13. Fixing screws for brake
14. Cooling fan
15. Fan hood
16. Ring nut
17. Spring
18. See gearing
19. Key brake side
20. Toothed pinion
21. Fixing screw for fan hood
22. Fixing crew for terminal-box
23. Terminal-box
24. Able-holder
25. Packing
26. Terminal-block
27. Tie-bolt
28. Coupling side key
29. Fixing screw for shield
30. Flange shield

Y Series

Three-Phase Induction Motors

- Frame size H80~355
- Power 0.55~315KW
- Synchronous speed 3000；1500；1000；750RPM
- Voltage 220/380V；380/660V
- Frequency 50Hz、60Hz
- Protection class IP44；IP54；IP55
- Insulation class B、F
- Ambi.temperature -15~+40℃
- Altitude above sea level ≤1000m

- See Table 1 for the mounting arrangements and respective frame numbers
- See Table 2 for the bearings
- See Table 3-4 for the technical data
- See Table 7-10 for the types and mounting dimensions

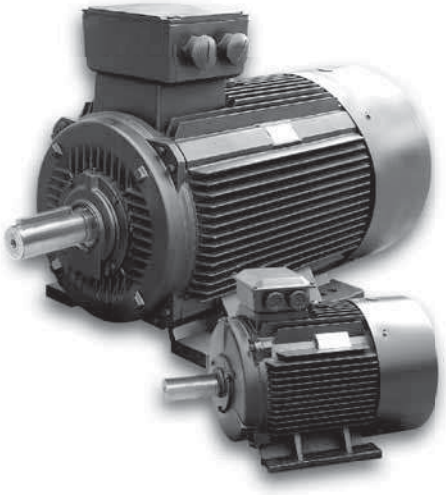


Y2 Series

Three-Phase Induction Motors

- Frame size H80~355
- Power 0.18~315KW
- Synchronous speed 3000；1500；1000；750；600RPM
- Voltage 230/400V；400/690V
- Frequency 50Hz、60Hz
- Protection class IP54；IP55
- Insulation class F
- Ambi.temperature -15~+40℃
- Altitude above sea level ≤1000m

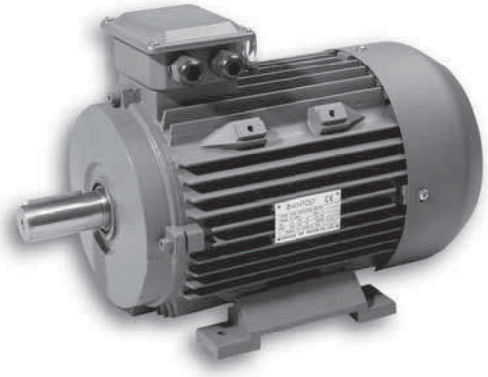
- See Table 1 for the mounting arrangements and respective frame numbers
- See Table 2 for the bearings
- See Table 5-6 for the technical data
- See Table 11-14 for the types and mounting dimensions



TE Series

Three-Phase Induction Motors

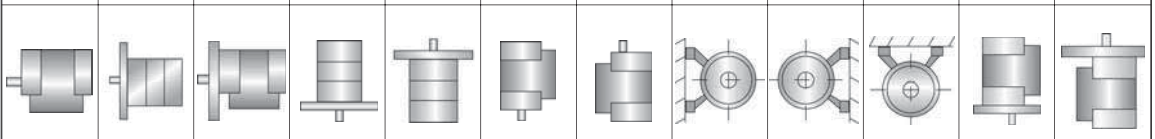
- Frame size H80~200
- Power 0.18~37KW
- Synchronous speed 3000；1500；1000；750RPM
- Voltage 230/400V；400/690V
- Frequency 50Hz、60Hz
- Protection class IP54；IP55
- Insulation class F
- Ambi.temperature -15~+40℃
- Altitude above sea level ≤1000m
- Removable feet



Mounting Arrangements

The Commonly used mounting arrangements and the corresponding frame numbers are shown in table 1

Table 1

Frame No.	Basic			Variations								
	B3	B5	B35	Based On B5		Based On B3					Based On B35	
				V1	V3	V5	V6	B6	B7	B8	V15	V36
												
H80~160	√	√	√	√	√	√	√	√	√	√	√	√
H180~225	√	√	√	√	—	—	—	—	—	—	—	—
H250~355	√	—	√	√	—	—	—	—	—	—	—	—

Bearings

Table 2

Frame No.	Driving End				Non-driving End			
	2P		4,6,8P		2P	4,6,8P	2P	4,6,8P
	Y	Y_2/TE	Y	Y_2/TE	Y	Y	Y_2/TE	Y_2/TE
80	6204				6204			
90	6205				6205			
100	6206				6206			
112	6206				6206			
132	6208				6208			
160	6309	6209	6309		6309			
180	6311	6211	6311		6311			
200	6312	6212	6312		6312			
225	6313	6312	6313		6313		6312	
250	6314	6313	6314		6314		6313	
280	6314		6317		6314	6317	6314	
315	6317		N319		6317	6319	6317	6319
355	6319		N322		6319	6322	6319	6322

Y Series Technical Data (at 380V)

Table 3

Model	Rated Output (KW)	At Full Load				Locked Current	Locked Torque	Max Torque	Net Weight (Kg)	Noise Level dB(A)	
		Speed (r/min)	Current (A)	Eff. (%)	Power Factor (CosΦ)	Rated Current	Rated Torque	Rated Torque		I	II
Synchronous Speed 3000r/min 50Hz											
80 1	0.75	2825	1.8	75.5	0.845	6.5	2.2	2.3	16	66	71
80 2	1.1		2.5	77.2	0.867	7			18		
90S	1.5	2840	3.4	78.6	0.849				21	70	75
90L	2.2		4.8	80.7	0.86				24		
100L	3	2880	6.4	82.2	0.872				34	74	79
112M	4	2890	8.2	85.8	0.86				43		
132S1	5.5	2900	11.1	85.7	0.89		2		63	78	83
132S2	7.5		14.9	86.4	0.886				69		
160M1	11	2930	21.6	87.4	0.885				114	82	87
160M2	15		28.9	88.3	0.893				120		
160L	18.5		35.7	89.2	0.883			2.2	136		
180M	22	2940	42.2	89.9	0.881				172	87	92
200L1	30	2950	56.9	90.2	0.888				222	90	95
200L2	37		69.8	90.6	0.889				246		
225M	45	2970	83.9	91.3	0.893				292	92	97
250M	55		103	91.6	0.884				392		
280S	75	2960	139.7	91.8	0.889				508	94	99
280M	90		166	92.6	0.89	6.8	1.8		590		
315S	110		202	92.7	0.883				862	99	104
315M	132		238	93.1	0.905				996		
315L1	160		287	93.6	0.905				1055		
315L2	200		365	93.7	0.905				1080		
355M1	220	2980	397	94.2	0.89	6.9	1.2		1750	109	
355M2	250		444	94.5	0.9	7			1770	111	
355L1	280		497	94.7		7.1			1830		
355L2	315		557	95					1900		
Synchronous Speed 1500r/min 50Hz											
80 1	0.55	1390	1.5	73.2	0.766	6	2.4	2.3	16	56	67
80 2	0.75		2	74.7	0.764		2.3		17		
90S	1.1	1400	2.8	77.9	0.782	6.5			21	61	
90L	1.5		3.7	79.2	0.792				25	62	
100L1	2.2	1420	5	81.1	0.824	7	2.2		33	65	70
100L2	3		6.8	82.7	0.811				38		
112M	4	1440	8.7	84.6	0.83				49	68	74
132S	5.5		11.6	85.6	0.843				64	70	78
132M	7.5		15.4	86.7	0.852		2.2	2.3	77	71	
160M	11	1460	22.7	88.1	0.84				122	75	82
160L	15		30.5	88.4	0.845				140	77	
180M	18.5	1470	35.9	91.2	0.859		2	2.2	166		
180L	22		42.9	91.3	0.861				181		
200L	30		56.8	92.1	0.871				242	79	84
225S	37	1480	70.4	91.9	0.869		1.9		278		
225M	45		84.2	92.2	0.88				312		
250M	55		103	92.7	0.875		2		395	81	86
280S	75	1470	137.6	92.8	0.892		1.9		562	85	90
280M	90		163.7	93.4	0.894				630		
315S	110		199	94.1	0.893	6.8	1.8		905	93	98
315M	132		235	94.6	0.902				1016	96	101
315L1	160		285	94.5	0.903				1108		
315L2	200		361	94.6	0.89				1210		
355M1	220	1490	407	94.4	0.87		1.4		1660	106	
355M2	250		461	94.7					1700	108	
355L1	280		515	94.9					1790		
355L2	315		578	95.2		6.9			1890		

Y Series Technical Data (at 380V)

Table 4

Model	Rated Output (KW)	At Full Load				Locked Current	Locked Torque	Max Torque	Net Weight (Kg)	Noise Level dB(A)	
		Speed (r/min)	Current (A)	Eff. (%)	Power Factor (CosΦ)	Rated Current	Rated Torque	Rated Torque		I	II
Synchronous Speed 1000r/min 50Hz											
90S	0.75	910	2.3	72.5	0.7	5.5	2	2.2	22	56	65
90L	1.1		3.2	73.5	0.72				25		
100L	1.5	940	4	77.5	0.74	6			33	62	67
112M	2.2		5.6	80.5	0.74				43		
132S	3	960	7.2	83	0.76	6.5			60	66	71
									71		
132M1	4		9.4	84	0.77				71		
132M2	5.5		13	85.3	0.78				82		
160M	7.5	970	17.1	86.2	0.773			2	108	69	75
160L	11		25	87.1	0.768				128	70	
180L	15		31.4	89.4	0.812		1.8		178		78
200L1	18.5		37.7	89.9	0.829				220	73	
200L2	22		44.6	90.4	0.829				230		
225M	30	980	59.5	90.2	0.849		1.7		296	76	81
250M	37		72	90.9	0.859		1.8		386		
280S	45		84.2	92.1	0.882				498	79	84
280M	55		102	92.4	0.887				556		
315S	75	990	139.6	92.9	0.879		1.6		858	87	92
315M	90		167	93.3	0.878				962		
315L1	110		203.3	93.7	0.877				1020		
315L2	132		241.8	93.9	0.886				1126		
355M1	160		300	94.1	0.86	6.7	1.3		1590	102	
355M2	185		346	94.3					1680		
355M3	200		374	94.3					1750		
355L1	220		409	94.5					1880		
355L2	250		465	94.7					1990	105	
Synchronous Speed 750r/min 50Hz											
132S	2.2	710	5.8	80.5	0.71	5.5	2	2	60	61	66
132M	3		7.6	82.3	0.729				71		
160M1	4	720	10.5	84.1	0.73	6			102	64	69
160M2	5.5		13.4	85.2	0.732				108		
160L	7.5		17.7	86.1	0.748	5.5			133	67	72
180L	11	730	25.1	87.7	0.758	6	1.7	2	176		
200L	15		34.1	88.3	0.757		1.8		230	70	75
225S	18.5		41.3	89.7	0.759		1.7		258		
225M	22		47.6	90.3	0.778		1.8		296		
250M	30		63	90.5	0.8				378	73	78
280S	37		76.1	91.2	0.81				494		
280M	45		90.8	91.9	0.819				562		
315S	55		110.2	92.3	0.822	6.5	1.6	2	856	82	87
315M	75		148.9	92.7	0.826				1010		
315L1	90		175.9	93.3	0.833	6			1110		
315L2	110		214.8	93.4	0.833				1195		
355M1	132	740	260	93.8	0.81	6.3	1.3		1660	99	
355M2	160		315	94					1740		
355L1	185		363	94.2					1870		
355L2	200		392	94.3					1980		

Y2/TE Series Technical Data (at 400V)

Table 5

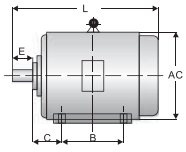
Model	Rated Output (KW)	At Full Load				Locked Current	Locked Torque	Max Torque	Net Weight (Kg)	Noise Level dB(A)	
		Speed (r/min)	Current (A)	Eff. (%)	Power Factor (CosΦ)	Rated Current	Rated Torque	Rated Torque		I	II
Synchronous Speed 3000r/min 50Hz											
80 1	0.75	2830	1.8	75	0.83	6.1	2.2	2.3	16	67	69
80 2	1.1		2.5	77	0.84	7			17		
90S	1.5	2840	3.3	79					22	72	74
90L	2.2		4.6	81	0.85				25		
100L	3	2860	6.0	83	0.87	7.5			33	76	78
112M	4	2880	7.7	85	0.88				45	77	79
132S1	5.5	2900	10.5	86					64	80	82
132S2	7.5		14.1	87					70		
160M1	11	2930	20.3	88	0.89				117	86	88
160M2	15		27.3	89					125		
160L	18.5		33	90	0.90				147		
180M	22	2940	39.2	90			2		180	89	91
200L1	30	2950	52.8	91.2					240	92	94
200L2	37		64.5	92					255		
225M	45	2970	78.2	92.3					309		
250M	55		95.4	92.5					403	93	95
280S	75		129.3	93					544	94	96
280M	90		152.2	93.8	0.91				620		
315S	110	2980	185.6	94		7.1	1.8	2.2	980	96	98
315M	132		221.6	94.5					1080		
315L1	160		265.4	94.6	0.92				1160	99	101
315L2	200		331.0	94.8					1190		
355M	250		411.6	95.3			1.6		1760	103	105
355L	315		517.0	95.6					1850		
Synchronous Speed 1500r/min 50Hz											
80 1	0.55	1390	1.5	71	0.75	5.2	2.4	2.3	17	58	63
80 2	0.75		2.0	73	0.76	6	2.3		18		
90S	1.1	1390	2.8	75	0.77				22	61	66
90L	1.5		3.5	78	0.79				27		
100L1	2.2	1410	4.9	80	0.81				34	64	69
100L2	3		6.5	82	0.82	7			38		
112M	4	1440	8.4	84					43	65	70
132S	5.5	1440	11.3	85	0.83				68	71	76
132M	7.5		14.8	87	0.84				81		
160M	11	1460	21.5	88			2.2		123	75	80
160L	15		30.1	89	0.85	7.5			144		79
180M	18.5	1470	34.3	90.5	0.86				182	76	80
180L	22		40.6	91					190		
200L	30		54.7	92		7.2			270	79	83
225S	37	1480	66.4	92.5	0.87				284	81	85
225M	45		80.5	92.8					320		84
250M	55		98.1	93					427	83	86
280S	75		132.7	93.8					562	86	89
280M	90		158.5	94.2					667		
315S	110	1490	191.0	94.5	0.88	6.9	2.1	2.2	1000	93	96
315M	132		228.4	94.8					1100		
315L1	160		273.4	94.9	0.89				1160	97	100
315L2	200		334.4	95					1270		
355M	250		420.7	95.3	0.90				1700	101	104
355L	315		528.4	95.6					1850		

Y2/TE Series Technical Data (at 400V)

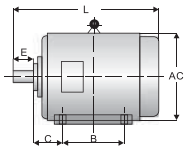
Table 6

Model	Rated Output (KW)	At Full Load				Locked Current	Locked Torque	Max Torque	Net Weight (Kg)	Noise Level dB(A)	
		Speed (r/min)	Current (A)	Eff. (%)	Power Factor (CosΦ)	Rated Current	Rated Torque	Rated Torque		I	II
Synchronous Speed 1000r/min 50Hz											
80 1	0.37	890	1.3	62	0.70	4.70	1.90	2.00	17	54	61
80 2	0.55		1.7	65	0.72			2.10	19		
90S	0.75	910	2.2	69		5.50	2.00		23	57	64
90L	1.1		3.0	72	0.73				25		
100L	1.5	920	3.8	76	0.75				33	61	68
112M	2.2	940	5.3	79	0.76	6.50			45	65	72
132S	3	960	7.0	81			2.10		63	69	76
132M1	4		9.3	82					73		
132M2	5.5		12.3	84	0.77				84		
160M	7.5	970	16.4	86			2.00		119	73	80
160L	11		23.3	87.5	0.78				147		
180L	15		30.0	89.0	0.81	7.00			195		79
200L1	18.5		36.6	90.0			2.10		220	76	82
200L2	22		42.5	90.0	0.83				250		
225M	30	980	56.3	91.5	0.84		2.00		292		
250M	37		67.5	92	0.86		2.10		408	78	84
280S	45		81.7	92.5				2.00	536	80	85
280M	55		99.5	92.8					595		
315S	75	990	134.6	93.5			2.00		990	85	90
315M	90		161.1	93.8					1080		
315L1	110		196.1	94.0		6.70			1150		
315L2	132		232.5	94.2	0.87				1210		89
355M1	160		227.7	94.5	0.88		1.90		1600	92	96
355M2	200		346.4	94.7					1700		
355L	250		432.1	94.9					1800		
Synchronous Speed 750r/min 50Hz											
80 1	0.18	630	0.9	51.0	0.61	3.30	1.80	1.90	17	52	60
80 2	0.25	640	1.1	54.0					19		
90S	0.37	660	1.4	62.0		4.00			23	56	64
90L	0.55		2.1	63.0				2.00	25		
100L1	0.75	690	2.3	71.0	0.67				33	59	67
100L2	1.1		3.2	73.0	0.69	5.00			38		
112M	1.5	680	4.2	75.0					50	61	69
132S	2.2	710	5.8	78.0	0.71	6.00			63	64	72
132M	3		7.5	79.0	0.73				79		
160M1	4	720	9.8	81.0			1.90		118	68	76
160M2	5.5		12.9	83.0	0.74		2.00		119		
160L	7.5		16.9	85.5	0.75				145		
180L	11	730	23.9	87.5	0.76	6.60			184	70	78
200L	15		32.4	88.0					250	73	80
225S	18.5		39.1	90.0			1.90		266		
225M	22	740	45.0	90.5	0.78			2.00	292		
250M	30		63.4	91.0	0.79				405	75	82
280S	37		73.9	91.5					520	76	83
280M	45		89.4	92.0					592		82
315S	55		105.6	92.8	0.81		1.80		1000	82	88
315M	75		143.7	93.0					1100		
315L1	90		168.9	93.8	0.82				1160		
315L2	110		206.0	94.0		6.40			1230		
355M1	132		248.0	93.7					1600	90	95
355M2	160		299.0	94.2					1700		
355L	200		368.1	94.5	0.83				1800		

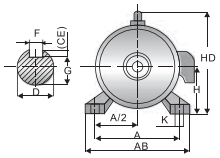
Y Series Mounting Dimensions



Frame Size 80~132



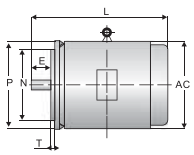
Frame Size 160~355



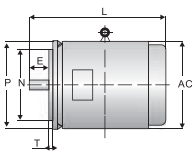
IM B3

Table 7

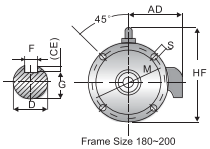
Frame No.	Poles	Mounting Dimensions & Tolerance																				Frame Dimensions				
		A	A/2	B	C		D		E		F		G[1]		H	K[2]						AB	AC	AD	HD	L
80	2,4	125	62.5	100	50	±1.5	19	+0.009 -0.004	40	±0.310	6	0 -0.030	15.5	0 -0.10	80	0 -0.5	10	+0.360 0				165	175	150	175	290
90S	2,4,6	140	70	100	56		24		50		8	0 -0.036	20		90							180	195	160	195	315
90L				125																						340
100L		160	80	140	63	±2.0	28		60	±0.370			24		100		12	+0.430 0				205	215	180	245	380
112M		190	95	140	70										112							245	240	190	265	400
132S	2,4,6,8	216	108	140	89		38	+0.018 +0.002	80		10		33		132							280	275	210	315	475
132M				178																						515
160M		254	127	210	108		42		110	±0.430	12		37		160		15					330	335	265	385	605
160L				254																						650
180M		279	139.5	241	121	±3.0	48				14		42.5		180							355	380	285	430	670
180L				279																						710
200L		318	159	±0.75	305	133		55				16		49		200		19				395	420	315	475	775
225S	4,8	356	178	286	149	±4.0	60	+0.030 +0.011	140	±0.500	18	0 -0.043	53	0 -0.20	225	0 -1.0		+0.520 0				435	475	345	530	820
225M	2			311			55		110	±0.430	16		49													815
	4,6,8						60		140	±0.500	18		53													845
250M	2	406	203	349	168										250		24					490	515	385	575	930
	4,6,8						65						58													
280S	2	457	228.5	368	190		75				20	0 -0.052	67.5		280							550	580	410	640	1000
	4,6,8																									
280M	2			419			65				18	0 -0.043	58													1050
	4,6,8						75				20	0 -0.052	67.5													
315S	2	508	254	±1.00	406	216	65			±0.500	18	0 -0.043	58		315		28					744	645	576	865	1240
	4,6,8,10						80		170		22	0 -0.052	71													1270
315M	2			457			65		140		18	0 -0.043	58													1310
	4,6,8,10						80		170		22	0 -0.052	71													1340
315L	2			508			65		140		18	0 -0.043	58													1310
	4,6,8,10						80		170		22	0 -0.052	71													1340
355M	2	610	305	±1.05	560	254	75	+0.030 +0.011	140	±0.50	20	0 -0.052	67.5		355							740	750	680	1035	1540
	4,6,8,10						95	+0.035 +0.013	170	±0.57	25		86													1570
355L	2			630			75	+0.030 +0.011	140	±0.50	20		67.5													1540
	4,6,8,10						95	+0.035 +0.013	170	±0.57	25		86													1570



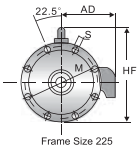
Frame Size 80~132



Frame Size 160~225



Frame Size 180~200



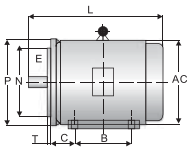
Frame Size 225

Y Series Mounting Dimensions IM B5

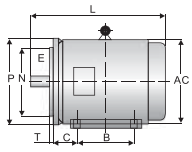
Table 8

Frame No.	Poles	Mounting Dimensions & Tolerance																						Frame Dimensions			
		D		E		F		G[1]		M	N		P[3]	R[4]		S		T		Holes No.			AC	AD	HF	L
80	2,4	19	+0.009 -0.004	40	±0.310	6	0 -0.030	15.5	0 -0.10	165	130	+0.014 -0.011	200	0	±1.5	12	+0.430 0	3.5	0 -0.120	4			175	150	185	290
90S	2,4,6	24		50		8	0 -0.036	20	0 -0.20														195	160	195	315
90L																										340
100L		28	+0.018 -0.002	60	±0.370			24		215	180		250		±2.0	15		4					215	180	245	380
112M																							240	190	265	400
132S	2,4,6,8	38		80		10		33		265	230		300										275	210	315	475
132M																										515
160M		42		110	±0.430	12		37		300	250	+0.016 -0.013	350		±3.0	19	+0.520 0	5					335	265	385	605
160L																										650
180M		48				14	0 -0.043	42.5															380	285	430	670
180L																										710
200L		55		140	±0.500	16		49		350	300	±0.016	400										420	315	480	775
225S	4,8	60	+0.030 -0.011	110	±0.430	18		53		400	350	±0.018	450		±4.0					8			475	345	535	820
225M	2	55		140	±0.500	16		49																		815
	4,6,8	60				18		53																		845

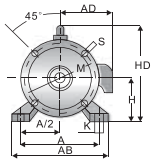
Y Series Mounting Dimensions



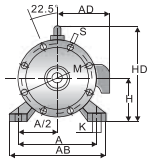
Frame Size 80~132



Frame Size 160~355



Frame Size 80~200

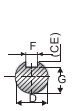


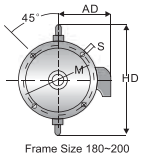
Frame Size 225~355

IM B35

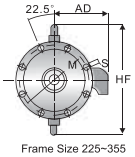
Table 9

Frame No.	Poles	Mounting Dimensions & Tolerance																					Frame Dimensions					
		A	A/2		B	C		D		E		F	G[1]	H	K[2]	M	N	P[3]	R[4]	S	T		Holes No.	AB	AC	AD	HD	L
80	2,4	125	62.5	±0.50	100	50	±1.5	19	+0.009 -0.004	40	±0.310	6	0 -0.030	16	0 -0.10	80	10	+0.360 0	165	130	+0.014 -0.011	200	±1.5	12	+0.430 0	3.5	0 -0.120	4	165	175	150	175	290
90S	2,4,6	140	70		100	56		24		50		8	0 -0.036	20		90													180	195	160	195	315
90L					125																												340
100L		160	80		140	63	±2.0	28		60				24		100	12	+0.430 0	215	180		250	±2.0	15		4			205	215	180	245	380
112M		190	95		140	70										112													245	240	190	265	400
132S	2,4,6,8	216	108		140	89		38		80	±0.370	10		33		132			265	230		300						4	280	275	210	315	475
132M				±0.75	178																												515
160M		254	127		210	108	±3.0	42	+0.018 -0.002	110	±0.430	12	0 -0.043	37	15	160	0 -0.5	+0.430 0	300	250	+0.016 -0.013	350	±3.0	19	+0.520 0	5			330	335	265	385	605
160L					254																												650
180M		279	139.5		241	121		48				14		43		180													355	380	285	430	670
180L					279																												710
200L		318	159		305	133		55				16		49		200			350	300	±0.016	400							395	420	315	475	775
225S	4,8	356	178		286	149		60		140	±0.500	18		53	19	225			400	350	±0.018	450						8	435	475	345	530	820
225M	2				311			55		110	±0.430	16		49																			815
	4,6,8			±1.00				60		140	±0.500	18		53																			845
250M	2	406	203		349	168		65						58	24	250			500	450	±0.020	550							490	515	385	575	930
	4,6,8																																
280S	2	457	228.5		368	190		75				20	0 -0.052	68		280													550	585	410	640	1000
	4,6,8							65	+0.030 -0.011			18	0 -0.043	58																			
280M	2				419			75				20	0 -0.052	68																			1050
	4,6,8																																
315S	2	508	254		406	216	±4.0	65				18	0 -0.043	58	28	315	0 -1.0	+0.520 0	600	550	±0.022	660	±4.0	24		6	0 -0.150		744	645	576	865	1240
	4,6,8,10							80		170		22	0 -0.052	71																			1270
315M	2				457			65		140		18	0 -0.043	58																			1310
	4,6,8,10							80		170		22	0 -0.052	71																			1340
315L	2				508			65		140		18	0 -0.043	58																			1310
	4,6,8,10							80		170		22	0 -0.052	71																			1340
355M	2	610	305	±1.05	560	254		75	+0.030 +0.011	140		20	0 -0.052	67.5		355			740	680	±0.025	800							740	750	680	1035	1540
	4,6,8,10							95	+0.035 +0.013	170	±0.570	25		86																			1570
355L	2				630			75	+0.030 +0.011	140	±0.500	20		67.5																			1540
	4,6,8,10							95	+0.035 +0.013	170	±0.570	25		86																			1570

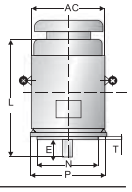




Frame Size 180~200



Frame Size 225~355



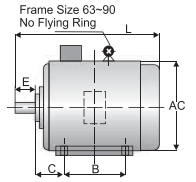
IM V1

Y Series Mounting Dimensions

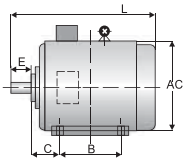
Table 10

Frame No.	Poles	Mounting Dimensions & Tolerance															Frame Dimensions				
		D		E		F		G[1]	M	N		P[3]	R[4]	S		T		Holes No.	AC	AD	HF	L
180M	2,4,6,8	48	+0.018 +0.002	110	±0.43	14	0 -0.043	42.5	300	250	+0.016 +0.013	350	0	±3.0	19	+0.520 0	5	0 -0.150	4	380	285	500	730
180L																							770
200L		55				16		49	350	300	±0.016	400								420	315	550	850
225S	4,8	60		140	±0.50	18		53	400	350	±0.018	450		±4.0					8				910
225M	2	55		110	±0.43	16		49												475	345	610	905
	4,6,8	60		140	±0.50	18		53															935
250M	2								500	450	±0.020	550								515	385	650	1035
	4,6,8	65						58															
280S	2																			580	410	720	1120
	4,6,8	75		140		20	0 -0.052	67.5															
280M	2	65				18	0 -0.043	58															1170
	4,6,8	75	+0.030 +0.011			20	0 -0.052	67.5															
315S	2	65			±0.50	18	0 -0.043	58	600	550	±0.022	660	0	±4.0	24	+0.520 0	6	0 -0.150	8	645	576	900	1360
	4,6,8,10	80		170		22	0 -0.052	71															1390
315M	2	65		140		18	0 -0.043	58															1460
	4,6,8,10	80		170		22	0 -0.052	71															1490
315L	2	65		140		18	0 -0.043	58															1460
	4,6,8,10	80		170		22		71															1490
355	2	75		140		20	0 -0.052	67.5	740	680	±0.025	800								750	680	1035	1645
	4,6,8,10	95	+0.035 +0.013	170	±0.57	25		86															1675

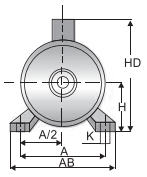
Y2/TE Series Mounting Dimensions



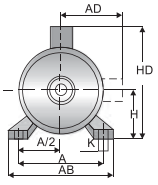
Frame Size 63~132



Frame Size 160~355



Frame Size 63~71



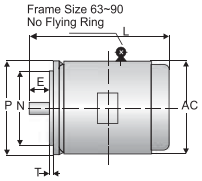
Frame Size 80~355

IM B3

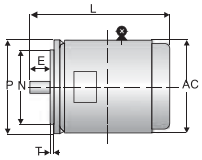
Table 11

Frame No.	Poles	Mounting Dimensions & Tolerance																Frame Dimensions				
		A	A/2	B	C		D		E		F		G[1]		H		K[2]		AB	AC	AD	HD	L
80	2,4,6,8	125	62.5	100	50	±1.5	19	+0.009 -0.004	40	±0.31	6	0 -0.036	15.5	0 -0.20	80	0 -0.5	10	+0.036 0	165	175	145	220	295
90S		140	70	100	56		24		50		8		20		90								320
90L				125															180	195	155	250	345
100L		160	80	140	63	±2.0	28		60	±0.37			24		100		12	+0.430 0	205	215	180	270	385
112M		190	95	140	70										112				230	240	190	300	400
132S		216	108	140	89		38		80		10		33		132				270	275	210	345	470
132M				178																			510
160M		254	127	210	108	±3.0	42	+0.018 +0.002	110	±0.43	12		37		160		15		320	330	255	420	615
160L				254																			670
180M		279	139.5	241	121		48				14		42.5		180				355	380	280	455	700
180L				279																			740
200L		318	159	305	133		55	+0.030 +0.011			16		49		200		19	+0.520 0	395	420	305	505	770
225S	4,8	356	178	286	149	±4.0	60		140	±0.50	18	0 -0.043	53		225				435	470	335	560	815
225M	2			311			55		110	±0.43	16		49										820
	4,6,8						60		140	±0.50	18		53										845
250M	2	406	203	349	168										250	0 -1.0	24		490	510	370	615	910
	4,6,8						65						58										
280S	2	457	228.5	368	190										280				550	580	410	680	985
	4,6,8						75				20	0 -0.052	67.5										
280M	2			419			65				18	0 -0.043	58										1035
	4,6,8						75				20	0 -0.052	67.5										
315S	2	508	254	406	216		65				18	0 -0.043	58		315		28		635	645	530	845	1185
	4,6,8,10						80		170		22	0 -0.052	71										1215
315M	2			457			65		140		18	0 -0.043	58										1295
	4,6,8,10						80		170		22	0 -0.052	71										1325
315L	2			508			65		140		18	0 -0.043	58										1295
	4,6,8,10						80		170		22		71										1325
355M	2	610	305	560	254		75		140		20	0 -0.052	67.5		355				730	710	655	1010	1500
	4,6,8,10						95	+0.035 +0.013	170		25		86										1530
355L	2			630			75	+0.030 +0.011	140		20		67.5										1500
	4,6,8,10						95	+0.035 +0.013	170		25		86										1530

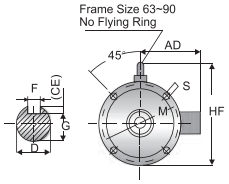
IM B5



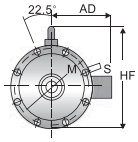
Frame Size 63~132



Frame Size 160~280



Frame Size 63~200

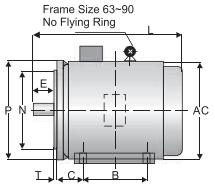


Frame Size 225~280

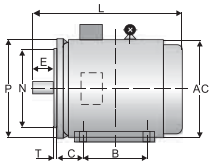
Table 12

Frame No.	Poles	Mounting Dimensions & Tolerance																	Frame Dimensions			
		D		E		F		G[1]		M	N		P[3]	R[4]		S		T		Holes No.	AC	AD	HF	L
80	2,4,6,8	19	+0.009 -0.004	40	±0.31	6	0 -0.030	15.5	0 -0.10	165	130	+0.014 -0.011	200	0	±1.5	12	+0.430 0	3.5	0 -0.120	4	175	145	185	295
90S		24		50		8	0 -0.036	20	0 -0.20												195	155	195	320
90L																								345
100L		28		60	±0.37			24		215	180		250		±2.0	15		4			215	180	245	385
112M																					240	190	265	400
132S		38		80		10		33		265	230		300								275	210	315	470
132M																								510
160M		42	+0.018 +0.002	110	±0.43	12	0 -0.043	37		300	250	+0.016 -0.013	350		±3.0	19	+0.520 0	5			330	255	385	615
160L																								670
180M		48				14		42.5													380	280	430	700
180L																								740
200L		55	+0.030 +0.011	140	±0.50	16		49		350	300	±0.016	400								420	305	480	770
225S	4,8	60				18		53		400	350	±0.018	450		±4.0					8	470	335	535	815
225M	2	55		110	±0.43	16		49																820
	4,6,8	60		140	±0.50	18		53																845
250M	2																				510	370	595	910
	4,6,8	65						58																
280S	2																				580	410	650	985
	4,6,8	75				20	0 -0.052	67.5		500	450	±0.020	550											
280M	2	65				18	0 -0.043	58																1035
	4,6,8	75				20	0 -0.052	67.5																

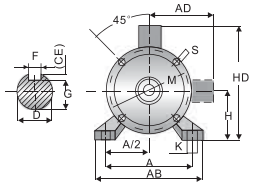
Y2/TE Series Mounting Dimensions



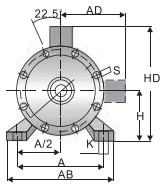
Frame Size 63~132



Frame Size 160~355



Frame Size 63~200

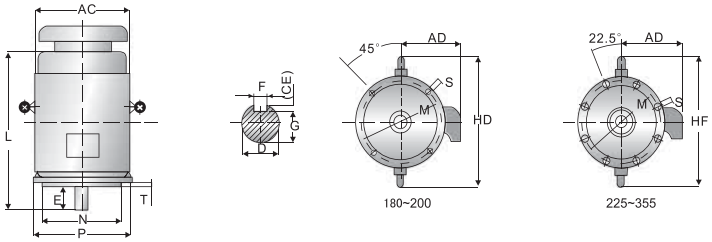


Frame Size 225~355

IM B35

Table 13

Frame No.	Poles	Mounting Dimensions & Tolerance																								Frame Dimensions				
		A	A/2	B	C	D		E		F		G[1]	H	K[2]		M	N	P[3]	R[4]	S	T		Holes No.	AB	AC	AD	HD	L
80	2,4,6,8	125	63	100	50	19	+0.009 -0.004	40	±0.310	6	0 -0.030	16	80	10	+0.360 0	165	130	200	±1.5	12	3.5	0 -0.12	4	165	175	145	220	295
90S		140	70	100	56	24		50		8	0 -0.036	20	90	12										180	195	155	250	320
90L				125																								345
100L		160	80	140	63	±2.0	28	60	±0.370			24	100		+0.430 0	215	180	250		15	4			205	215	180	270	385
112M		190	95	140	70								112											230	240	190	300	400
132S		216	108	140	89		38	80		10		33	132			265	230	300						270	275	210	345	470
132M				178																								510
160M		254	127	210	108	±3.0	42	+0.018 +0.002	±0.430	12	0 -0.043	37	160	15		300	250	350	±3.0	19	5			320	330	255	420	615
160L				254																								670
180M		279	140	241	121		48	110		14		43	180											355	380	280	455	700
180L				279																								740
200L		318	159	305	133		55			16		49	200			350	300	400						395	420	305	505	770
225S	4,8	356	178	286	149	±4.0	60	140	±0.500	18		53	225	19	+0.520 0	400	350	450	±4.0	19	5		8	435	470	335	560	815
225M	2			311			55	110	±0.430	16		53																820
	4,6,8						60			18		49																845
250M	2	406	203	349	168								250			500	450	550						490	510	370	615	910
	4,6,8						65					58		24														
280S	2	457	229	368	190								280											550	580	410	680	985
	4,6,8						75			20	0 -0.052	68																
280M	2			419			65			18	0 -0.043	58																1035
	4,6,8,10						75			20	0 -0.052	68																
315S	2	508	254	406	216		65			18	0 -0.043	58	315			600	550	660		24	6	0 -0.15		635	645	530	845	1185
	4,6,8,10						80	170		22	0 -0.052	71																1215
315M	2			457			65	140		18	0 -0.043	58																1295
	4,6,8,10						80	170		22	0 -0.052	71																1325
315L	2			508			65	140		18	0 -0.043	58		28														1295
	4,6,8,10						80	170		22		71																1325
355M	2	610	305	560	254		75	140		20	0 -0.052	68	355			740	680	800						730	710	655	1010	1500
	4,6,8,10						95	+0.035 +0.013	170	25		86																1530
355L	2			630			75	+0.030 +0.011	140	20		68																1500
	4,6,8,10						95	+0.035 +0.013	170	25		86																1530



IM V1

Table 14

Frame No.	Poles	Mounting Dimensions & Tolerance																Frame Dimensions			
		D		E		F		G[1]		M	N		P[3]	R[4]	S	T	Holes No.	AC	AD	HF	L
180M	2,4,6,8	48	+0.018 +0.022	110	±0.430	14	0 -0.043	42.5	0 -0.20	300	250	+0.016 -0.013	350	0 ±3.0	19 +0.520 0	5 0 -0.120	4	380	280	500	760
180L																					800
200L		55	+0.030 +0.011			16		49		350	300	±0.016	400					420	305	550	840
225S	4,8	60		140	±0.500	18		53		400	350	±0.018	450			-0.150 0	8	470	335	610	905
225M	2	55		110	±0.430	16		49													910
	4,6,8	60		140	±0.500	18		53													935
250M	2									500	450	±0.020	550					510	370	650	1015
	4,6,8	65						58													
280S	2					20	0 -0.052	67.5										580	410	720	1110
	4,6,8	75				18	0 -0.043	58													
280M	2	65																			1150
	4,6,8	75				20	0 -0.052	67.5						±4.0							
315S	2	65				18	0 -0.043	58		600	550	±0.022	660		24	6		645	530	900	1280
	4,6,8,10	80		170	±0.500	22	0 -0.052	71													1510
315M	2	65		140		18	0 -0.043	58													1310
	4,6,8,10	80		170		22	0 -0.052	71													1430
315L	2	65		140		18	0 -0.043	58													1310
	4,6,8,10	80		170		22		71													1430
355M	2	75		140		20		67.5		740	680	±0.025	800					710	655	1010	1640
	4,6,8,10	95	+0.035 +0.013	170		25	0 -0.052	86													1670
355L	2	75	+0.030 +0.011	140		20		67.5													1640
	4,6,8,10	95	+0.035 +0.013	170		25		86													1670

The note for: 1)G=D-GE.The limit of deciation in GE is $(^{+0.10}_{0})$ for frame No.up to 80,the rest is $(^{+0.20}_{0})$.

2)The position tolerance for hole K is based on the axis of shaft extention.

3)Dimension P is the maximun limit value.

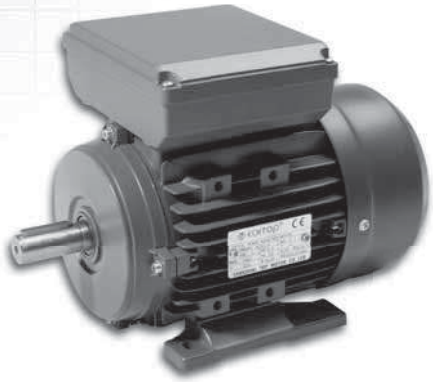
4)R is the distance from the matching surface of flange to the shoulder of shaft extension.

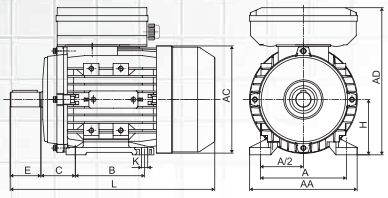
ML Series

Single-Phase Capacitor Start and Capacitor Run Asynchronous Motors

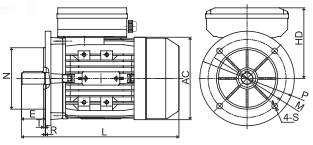
Aluminum Housing

ML series aluminum housing single-phase dual-capacitor asynchronous motors,with latest design in entirety, are made of selected quality materials and conform to the IEC standard.
ML motors have good performance,safety and reliable operation, the multiple of starting torque is up to 2.5.
These series motors are suitable for the occasion where the requirements of big starting torque and high over load, such as air-compressors, pumps, and many other small machines.

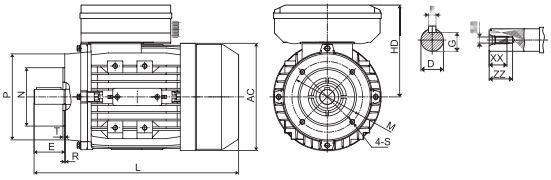




IM B3



IM B5



IM B14

Overall & Installation Dimensions

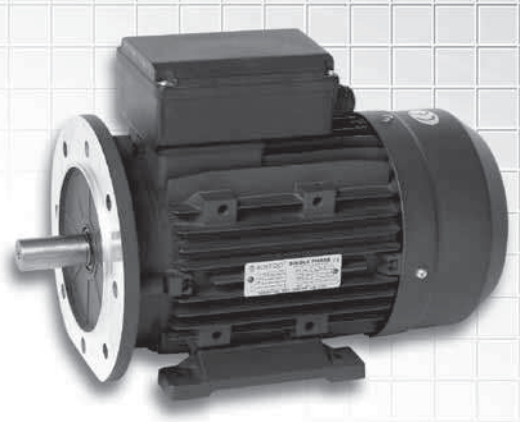
Frame Size	Mounting Dimensions																				Overall Dimensions					Shaft End Screw Dimensions		
	A	B	C	D	E	F	G	H	K	IM B14						IM B5													
										M	N	P	R	S	T	M	N	P	R	S	T	AA	AC	AD	HD	L	SS	XX	ZZ
63	100	80	40	11	23	4	8.5	63	7X10	75	60	90	0	M5	2.5	115	95	140	0	Φ 10	3.0	120	130	179	116	212	M4	10	15
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	Φ 10	3.5	132	145	194	123	255	M5	12	18
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	Φ 12	3.5	157	165	223	143	290	M6	16	22
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	Φ 12	3.5	172	185	240	150	335	M8	20	25
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	Φ 12	3.5	172	185	240	150	365	M8	20	25
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	Φ 15	4.0	196	205	260	160	398/416	M10	22	28
112M	190	140	70	28	60	8	24	112	12X15	130	110	160	0	M8	3.5	215	180	250	0	Φ 15	4.0	222	230	295	183	416	M10	22	28

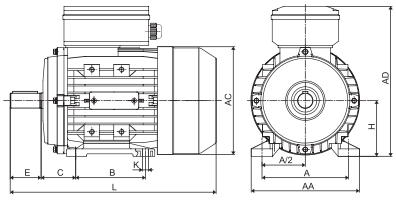
Technical Data (at 230V/50Hz)

Model	Power (KW)	Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Rate Torque (N.M)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	Starting Current (A)	Run Capacitor (μF/V)	Start Capacitor (μF/V)	Noise dB (A)	W.T (Kg)
ML631-2	0.18	1.38	2710	63	0.9	0.63	2.5	1.6	8	10μF/450V	30μF/250V	70	3.9
ML632-2	0.25	1.89	2710	64	0.9	0.88	2.5	1.6	10	12μF/450V	40μf/250V	73	4.4
ML711-2	0.37	2.66	2780	65	0.93	1.27	2.5	1.8	15	12μF/450V	75μF/250V	75	6.1
ML712-2	0.55	3.78	2790	68	0.93	1.88	2.5	1.8	20	16μF/450V	100μF/250V	76	7
ML801-2	0.75	4.87	2800	72	0.93	2.56	2.5	1.8	30	20μF/450V	100μF/250V	76	9
ML802-2	1.1	7.04	2810	73	0.93	3.74	2.5	1.8	40	30μF/450V	150μF/250V	79	10.3
ML90S-2	1.5	9.48	2810	74	0.93	5.10	2.5	1.8	55	40μF/450F	200μF/300V	84	16.3
ML90L-2	2.2	13.57	2810	75	0.94	7.48	2.5	1.8	75	50μF/450V	250μF/300V	84	16.7
ML100L-2	3.0	17.83	2830	77	0.95	10.13	2.5	1.7	110	60μF/450V	400μF/300V	88	25
ML112M1-2	3.7	21.48	2850	78	0.96	12.40	2.5	1.7	140	60μF/450V	600μF/300V	90	33
ML112M2-2	4.0	22.18	2850	80	0.98	13.41	2.5	1.7	150	60μF/450V	600μF/300V	90	34.2
ML631-4	0.12	1.05	1350	55	0.9	0.85	2.5	1.6	6	10μF/450V	30μF/250V	64	4.1
ML632-4	0.18	1.55	1350	56	0.9	1.27	2.5	1.6	8.5	12μF/450V	40μF/250V	64	4.5
ML711-4	0.25	2.01	1380	60	0.9	1.73	2.5	1.7	10	12μF/450V	50μF/250V	66	5.9
ML712-4	0.37	2.84	1380	63	0.9	2.56	2.5	1.7	15	16μF/450V	75μF/250V	68	6.9
ML801-4	0.55	4.03	1400	66	0.9	3.75	2.5	1.8	20	20μF/450V	100μF/250V	71	9.6
ML802-4	0.75	5.25	1410	69	0.9	5.08	2.5	1.8	30	25μF/450V	100μF/250V	71	10.9
ML90S-4	1.1	7.24	1410	71	0.93	7.45	2.5	1.8	40	35μF/450V	150μF/250V	74	13.8
ML90L-4	1.5	9.61	1400	73	0.93	10.24	2.5	1.8	55	40μF/450V	200μF/300V	79	16.7
ML100L1-4	2.2	13.90	1430	74	0.93	14.70	2.5	1.8	75	50μF/450V	300μF/300V	79	22.8
ML100L2-4	3	18.70	1440	75	0.93	19.91	2.5	1.8	110	60μF/450V	500μF/300V	83	28.7
ML112M1-4	3.7	21.99	1440	77	0.95	24.55	2.5	1.7	140	60μF/450V	600μF/300V	86	31
ML112M2-4	4.0	22.41	1440	80	0.97	26.54	2.5	1.7	150	60μF/450V	600μF/300V	86	32.8

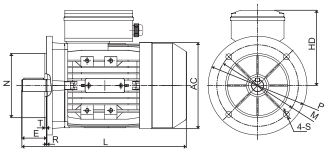
MY/MYT Series
Single-Phase Capacitor Run Asynchronous Motors
Aluminum Housing

MY/MYT series aluminum housing single-phase capacitor-run asynchronous motors,with latest design in entirety, are made of selected quality materials and conform to the IEC standard.
MY 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 of light weight and simple construction. The multiple of starting torque is 0.3~0.7(MY), 0.45~0.75(MYT).
These series motors are suitable for the occasion where there requirements of starting torque is low and long-term continuous woking, such as home electric appliances, pumps, fans, and recording meters,etc.

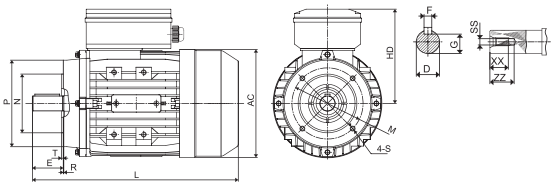




IM B3



IM B5



IM B14

Overall & Installation Dimensions

Frame Size	Mounting Dimensions																					Overall Dimensions					Shaft End Screw Dimensions		
										IM B14						IM B5													
	A	B	C	D	E	F	G	H	K	M	N	P	T	R	S	M	N	P	T	R	S	AA	AC	AD	HD	L	SS	XX	ZZ
56	90	71	36	φ9	20	3	7.2	56	5.8x8.8	φ65	φ50	φ80	2.5	0	M5	φ100	φ80	φ120	3.0	0	φ7	110	φ117	144	88	196	M3	9	12
63	100	80	40	φ11	23	4	8.5	63	7x10	φ75	φ60	φ90	2.5	0	M5	φ115	φ95	φ140	3.0	0	φ10	120	φ130	181	118	220	M4	10	14
71*	112	90	45	φ14	30	5	11	71	7x10	φ85	φ70	φ105	2.5	0	M6	φ130	φ110	φ160	3.5	0	φ10	132	φ147	196	125	241/255	M5	12	17
80	125	100	50	φ19	40	6	15.5	80	10x13	φ100	φ80	φ120	3.0	0	M6	φ165	φ130	φ200	3.5	0	φ12	160	φ163	226	146	290	M6	16	21
90S	140	100	56	φ24	50	8	20	90	10x13	φ115	φ95	φ140	3.0	0	M8	φ165	φ130	φ200	3.5	0	φ12	175	φ183	243	153	312	M8	19	25
90L	140	125	56	φ24	50	8	20	90	10x13	φ115	φ95	φ140	3.0	0	M8	φ165	φ130	φ200	3.5	0	φ12	175	φ183	243	153	337/367	M8	19	25
100L**	160	140	63	φ28	60	8	24	100	12x15	φ130	φ110	φ160	3.5	0	M8	φ215	φ180	φ250	4.0	0	φ15	198	φ205	265	165	369/387	M10	22	30

Technical Data (at 230V/50Hz)

Model	Power (KW)	Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	Starting Current (A)	Run Capacitor (μF/V)	Noise dB(A)	W.T (Kg)
MY561-2	0.09	0.80	2740	54	0.91	0.69	1.8	2.5	4μF/450V	67	2.8
MY562-2	0.12	0.90	2760	60	0.93	0.69	1.8	3.5	6μF/450V	67	3.05
MY631-2	0.18	1.40	2760	62	0.93	0.55	1.8	4.5	8μF/450V	70	4.1
MY632-2	0.25	1.70	2780	66	0.93	0.55	1.8	6	10μF/450V	70	4.5
MY633-2	0.37	2.50	2780	67	0.93	0.45	1.65	8	12μF/450V	75	5.25
MY711-2	0.37	2.60	2780	67	0.93	0.5	1.65	10	12μF/450V	75	5.6
MY712-2	0.55	3.50	2790	73	0.95	0.5	1.8	15	16μF/450V	75	6.95
MY713-2	0.75	4.50	2810	74	0.97	0.48	1.8	20	25μF/450V	75	8.15
MY801-2	0.75	4.40	2810	74	0.98	0.4	1.8	19	25μF/450V	75	8.5
MY802-2	1.1	6.30	2810	75	0.98	0.4	1.8	30	35μF/450V	78	11
MY803-2	1.5	8.50	2810	77	0.98	0.33	1.8	40	40μF/450V	80	12.75
MY90S-2	1.5	8.40	2820	77	0.98	0.33	1.72	35	45μF/450V	80	13.7
MY90L-2	2.2	12.10	2850	78	0.98	0.29	1.8	61	60μF/450V	80	16.7
MY100L-2	3	16.50	2860	79	0.99	0.28	1.8	73	80μF/450V	83	23.1
MY561-4	0.06	0.60	1370	48	0.92	0.73	1.75	2	4μF/450V	63	3.3
MY562-4	0.09	0.80	1370	50	0.92	0.6	1.75	3	6μF/450V	63	3.6
MY631-4	0.12	1.30	1370	52	0.92	0.6	1.75	3	8μF/450V	65	4.45
MY632-4	0.18	1.50	1370	54	0.94	0.6	1.6	4	12μF/450V	65	5.05
MY633-4	0.25	2.00	1370	58	0.95	0.6	1.6	5	14μF/450V	65	5.4
MY711-4	0.25	1.80	1390	61	0.96	0.5	1.6	5	14μF/450V	65	5.8
MY712-4	0.37	2.70	1390	62	0.96	0.5	1.6	8	16μF/450V	68	6.9
MY713-4	0.55	3.70	1390	64	0.97	0.48	1.7	12	20μF/450V	70	8.25
MY801-4	0.55	3.50	1410	64	0.98	0.37	1.8	13	25μF/450V	70	9.55
MY802-4	0.75	4.70	1410	68	0.98	0.37	1.65	17	30μF/450V	70	10.45
MY90S-4	1.1	6.30	1410	71	0.98	0.35	1.75	24	40μF/450V	73	13.1
MY90L-4	1.5	8.50	1420	73	0.96	0.33	1.8	36	45μF/450V	75	16.45
MY100L1-4	2.2	12.90	1440	77	0.96	0.32	1.8	57	80μF/450V	78	22.8
MY100L2-4	3	16.20	1440	78	0.99	0.3	1.7	75	100μF/450V	78	29.2
MY711-6	0.18	1.49	920	57	0.92	0.45	1.5	4	16μF/450V	68	6.3
MY712-6	0.25	2.00	920	59	0.92	0.45	1.5	5	20μF/450V	68	7.6
MY801-6	0.37	2.78	920	63	0.92	0.35	1.6	8	20μF/450V	68	9
MY802-6	0.55	3.90	920	66	0.93	0.35	1.6	14	25μF/450V	70	11.6
MY90S-6	0.75	5.05	920	68	0.95	0.35	1.6	16	35μF/450V	70	13.5
MY90L-6	1.1	7.30	920	69	0.95	0.35	1.6	25	50μF/450V	70	16.2

Technical Data (at 230V/50Hz)

Model	Power (KW)	Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	Starting Current (A)	Run Capacitor (μF/V)	Noise dB(A)	W.T (Kg)
MYT631-2	0.18	1.40	2750	62	0.93	0.7	1.8	4.5	10μF/450V	70	4
MYT632-2	0.25	1.80	2750	65	0.93	0.65	1.75	6	12μF/450V	70	4.7
MYT711-2	0.37	2.60	2640	66	0.94	0.72	1.65	8	14μF/450V	75	6.1
MYT712-2	0.55	3.60	2760	71	0.95	0.7	1.8	14	20μF/450V	75	7.7
MYT801-2	0.75	4.50	2735	73	0.98	0.68	1.75	16	25μF/450V	75	10.25
MYT802-2	1.1	6.60	2720	74	0.98	0.65	1.8	23	35μF/450V	78	11.6
MYT90S-2	1.5	8.50	2755	76	0.98	0.65	1.8	31	50μF/450V	80	14.55
MYT90L-2	2.2	12.30	2765	77	0.98	0.65	1.8	51	70μF/450V	80	17.8
MYT100L-2	3	16.90	2765	77	0.99	0.55	1.75	64	90μF/450V	83	23.7
MYT711-4	0.25	2.00	1320	56	0.94	0.75	1.6	5	16μF/450V	65	6.2
MYT712-4	0.37	2.90	1325	58	0.94	0.7	1.55	7	20μF/450V	68	7.3
MYT801-4	0.55	10.60	1340	64	0.94	0.7	1.7	11	25μF/450V	73	10.05
MYT802-4	0.75	5.30	1340	64	0.94	0.7	1.75	15	35μF/450V	73	11.4
MYT90S-4	1.1	7.00	1355	72	0.95	0.68	1.8	22	40μF/450V	75	14.4
MYT90L-4	1.5	9.30	1360	74	0.95	0.68	1.8	32	50μF/450V	78	17.5
MYT100L1-4	2.2	12.60	1390	78	0.97	0.48	1.75	49	70μF/450V	80	24.5
MYT100L2-4	3	16.50	1380	79	0.99	0.45	1.6	61	90μF/450V	80	32
MYT631-6	0.09	0.92	900	46	0.92	0.8	1.45	2	8μF/450V	63	5.1
MYT632-6	0.12	1.05	900	54	0.92	0.75	1.45	3	11μF/450V	63	6
MYT711-6	0.18	1.55	900	55	0.92	0.7	1.5	4	16μF/450V	68	6.3
MYT712-6	0.25	2.07	900	57	0.92	0.68	1.5	5	20μF/450V	68	7.6
MYT801-6	0.37	2.82	900	62	0.92	0.68	1.6	8	25μF/450V	68	9
MYT802-6	0.55	4.08	900	63	0.93	0.68	1.6	14	30μF/450V	70	11.6
MYT90S-6	0.75	5.20	900	66	0.95	0.65	1.6	16	40μF/450V	70	13.5
MYT90L-6	1.1	7.51	900	67	0.95	0.62	1.6	25	50μF/450V	70	16.2

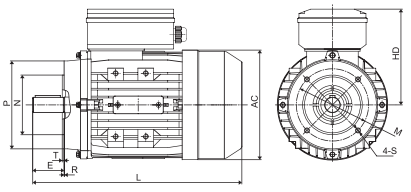
* Note: MYT is high starting torque series single phase capacitor–run motors

MC Series
Single-Phase Capacitor Start Asynchronous Motors
Aluminum Housing

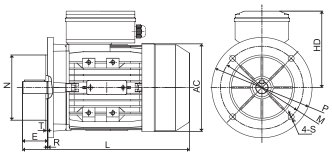
MC Series aluminum housing single-phase capacitor-start asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MC motors have good performance, safely and reliable operation, nice appearance, and can be maintained very conveniently, while with low noises, little vibration and at the same time of light weight and simple construction. High starting torque, perfect starting performance, generally the multiple of the starting torque can up to 3.0 times.

These series motors are suitable for the occasion where big starting torque and small starting current, such as air-compressors, pumps, refrigerators, medical apparatus, and many other machines needing full-load start.



IM B3



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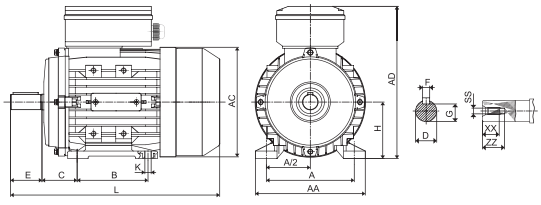


IM B14

Overall & Installation Dimensions

Frame Size	Mounting Dimensions									IM B14						IM B5						Overall Dimensions					Shaft End Screw Dimensions		
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AA	AC	AD	HD	L	SS	XX	ZZ
63	100	80	40	11	23	4	8.5	63	7X10	75	60	90	0	M5	2.5	115	95	140	0	Φ10	3.0	120	130	179	116	212	M4	10	15
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	Φ10	3.5	132	145	194	123	255	M5	12	18
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	Φ12	3.5	157	165	223	143	290	M6	16	22
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	Φ12	3.5	172	185	240	150	335	M8	20	25
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	Φ12	3.5	172	185	240	150	365	M8	20	25
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	Φ15	4.0	196	205	260	160	398/416	M10	22	28
112M	190	140	70	28	60	8	24	112	12X15	130	110	160	0	M8	3.5	215	180	250	0	Φ15	4.0	222	230	295	183	416	M10	22	28

Technical Data (at 230V/50Hz)

Model	Power (KW)	Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Rate Torque (N.M)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	Starting Current (A)	Start Capacitor (μF/V)	Noise dB(A)	W.T (Kg)
MC711-2	0.18	1.86	2750	60	0.70	0.63	3.0	2.2	12	75μF/250V	70	5
MC712-2	0.25	2.43	2780	62	0.72	0.86	3.0	2.2	15	75μF/250V	70	6.8
MC801-2	0.37	3.46	2800	62	0.75	1.26	2.8	2.2	21	100μF/250V	75	9.2
MC802-2	0.55	4.78	2800	65	0.77	1.88	2.8	2.2	29	150μF/250V	75	11
MC90S-2	0.75	6.15	2810	68	0.78	2.55	2.5	2.2	37	200μF/300V	75	13
MC90L-2	1.1	8.76	2820	70	0.78	3.73	2.5	2.2	60	250μF/300V	78	16
MC100L1-2	1.5	11.47	2830	72	0.79	5.06	2.5	2.0	80	300μF/300V	83	22
MC100L2-2	2.2	16.59	2840	73	0.79	7.40	2.2	2.0	120	400μF/300V	83	24
MC112M-2	3.0	22.03	2850	74	0.8	10.05	2.2	1.9	150	600μF/300V	87	28
MC711-4	0.12	1.86	1360	50	0.56	0.84	3.0	2.2	9	50μF/250V	65	5.4
MC712-4	0.18	2.46	1380	53	0.6	1.25	2.8	2.2	12	75μF/250V	65	6.4
MC801-4	0.25	3.07	1390	58	0.61	1.72	2.8	2.2	15	100μF/250V	65	9
MC802-4	0.37	4.18	1400	62	0.62	2.52	2.5	2.2	21	100μF/250V	70	10.2
MC90S-4	0.55	5.49	1400	66	0.66	3.75	2.5	2.0	29	150μF/250V	70	12.8
MC90L-4	0.75	6.85	1410	68	0.7	5.08	2.5	2.0	37	150μF/250V	70	15.7
MC100L1-4	1.1	9.49	1420	71	0.71	7.40	2.5	2.0	60	250μF/300V	73	23
MC100L2-4	1.5	12.41	1430	73	0.72	10.01	2.5	2.0	80	400μF/300V	78	28
MC112M-4	2.2	17.71	1440	74	0.73	14.59	2.2	1.9	120	600μF/300V	78	34.5

YC Series

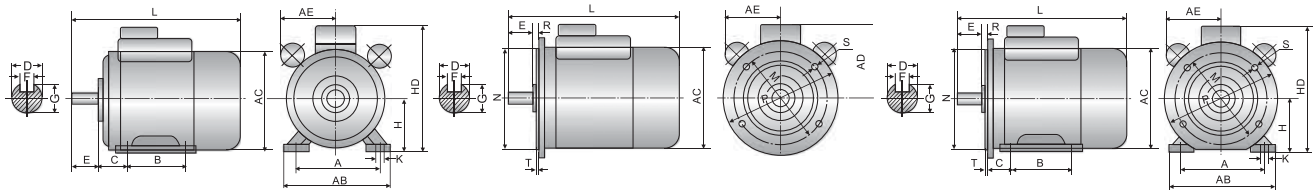
Single-Phase Capacitor Start Asynchronous Motors

Cast Iron Housing

YC series heavy–duty single–phase motors are suitable for driving small machines and water pumps，especially for families or workshops where only single–phase electric supply are available conforming to “IEC” design with advanced techniques and made from best materials，the motors have pleasant appearance and good performance.

YC series a motors are of IP44，totally enclosed and fan–cooling type. rated output is 3HP or below are capacitor–start，when operating under rated voltage，under 50HZ(60HZ)，has a starting torque as high as 3 times the rated tone and under 60HZ,the torque can be 2.75 times the rated one. Motors of 4HP and above are of capacitor start and run. They have the advantages of high torque，steady running，low the mal rise，lower noise and greater overload performance.

YC Series Single-Phase Capacitor Start Asynchronous Motors



IM B3 IM B5 IM B35

Overall & Installation Dimensions (at 230V/50Hz)

Frame Size	Mounting Dimensions(mm)															Overall & Installation Dimension					
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	AE	HD	L
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	160	165	120	110	200	310
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	140	120	240	355
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	4.5	180	185	140	120	240	385
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4.0	205	220	145	130	260	415
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	245	250	160	140	300	440
132S	216	140	89	38	80	10	33	132	12	215	230	300	0	15	4.0	280	262	210	150	350	470

Technical Data

Model	Output		Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Locked Rotor Torque	Locked Rotor Current	Pull-Out Torque
	(HP)	(KW)					Rated Torque	Rated Current	Rated Torque
YC80A-2	1/2	0.37	3.7	2880	62	0.73	2.8	6.5	1.8
YC80B-2	3/4	0.55	5.3	2880	65	0.73	2.8	6.5	1.8
YC80C-2	1	0.75	6.7	2880	68	0.75	2.4	6.5	1.8
YC90S-2	1.5	1.1	9.1	2880	71	0.77	2.4	7.0	1.8
YC90L-2	2	1.5	12.1	2900	72	0.78	2.4	7.0	1.8
YC100L-2	3	2.2	17.1	2900	74	0.79	2.1	7.0	1.8
YC80A-4	1/3	0.25	3.4	1450	56	0.60	2.8	6	1.8
YC80B-4	1/2	0.37	4.5	1450	60	0.62	2.8	6	1.8
YC80C-4	3/4	0.55	6	1450	64	0.65	2.8	6	1.8
YC90S-4	1	0.75	7.7	1450	67	0.66	2.4	6.5	1.8
YC90L-4	1.5	1.1	10.5	1450	70	0.68	2.4	6.5	1.8
YC100L-4	2	1.5	13.5	1450	72	0.70	2.4	6.5	1.8
YC112M-4	3	2.2	19.3	1450	72	0.72	2.2	6.5	1.8
YC132A-4	4	3	25.2	1450	74	0.73	2.1	6.5	1.8
YC132B-4	5	3.7	30	1450	75	0.74	2.1	6.5	1.8

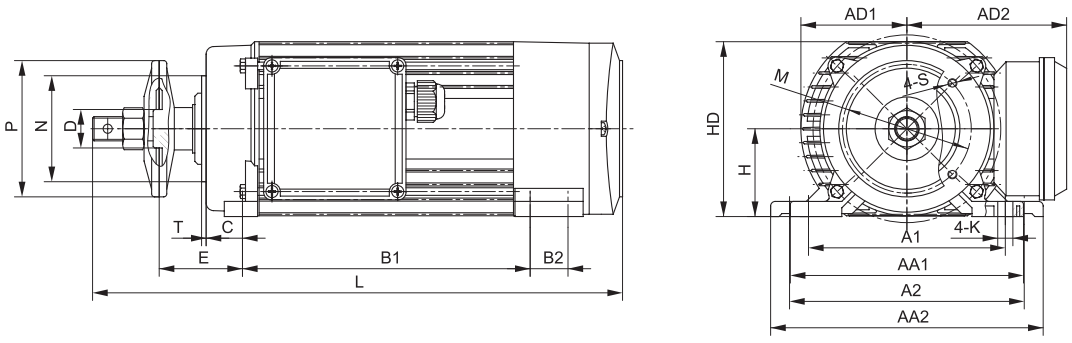
MSC/MYC Series

Three/Single-Phase Aluminum Housing Saw Motors

MSC/MYC Series Motors Technical Data

Type	Power (KW)	Phase	V/Hz	Current (A)	Eff. (%)	Power Factor (CosΦ)	Speed (r/min)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	I_{st}/I_n (Times)	Duty	Capacitor
MYC58A2	1.1	1	230/50	7.18	68	0.98	2770	0.35	1.7	5	S6-40%	25uF/450V
MYC58B2	1.5	1	230/50	9.51	70	0.98	2790	0.35	1.7	5	S6-40%	30uF/450V
MYC58C2	1.8	1	230/50	11.1	72	0.98	2790	0.32	1.7	5	S6-40%	30uF/450V
MYC63B2	2.2	1	230/50	13.2	74	0.98	2800	0.32	1.7	5	S6-40%	40uF/450V
MSC58A2	1.5	3	400/50	3.41	77.5	0.82	2750	3	3	6	S6-40%	
MSC58B2	2.2	3	400/50	4.76	78.5	0.85	2750	3	3	6	S6-40%	
MSC63A2	2.2	3	400/50	4.73	79	0.85	2800	2.4	2.2	6	S6-40%	
MSC63B2	3	3	400/50	6.37	80	0.85	2820	2.8	2.4	6.5	S6-40%	
MSC74A2	4	3	400/50	8.19	82	0.86	2850	3	3	7	S6-40%	
MSC81A2	5.5	3	400/50	10.5	85	0.89	2880	3	3	9	S1	
MSC81B2	7.5	3	400/50	14.1	86	0.89	2880	3	3	9	S1	
MSC93A2	5.5	3	400/50	10.1	87	0.90	2890	3	3	9	S1	
MSC93B2	7.5	3	400/50	13.6	87.5	0.91	2890	3	3	9	S1	

MSC/MYC Series Three/Single-Phase Aluminum Housing Saw Motors



MSC/MYC Series Motors Overall & Installation Dimensions

Model	H	D	P	N	M	S	A1	A2	B1	B2	C	E	T	K	AA1	AA2	HD	AD1	AD2	L*
MYC58A2	58	25.4	90	70	85	M6	130	155	165	25	24	55	3	10	154	180	116	70	113	325
MYC58B2	58	25.4	90	70	85	M6	130	155	190	25	24	55	3	10	154	180	116	70	113	350
MYC58C2	58	25.4	90	70	85	M6	130	155	190	25	24	55	3	10	154	180	116	70	113	350
MYC63B2	63	25.4	90	80	100	M6	130	155	190	28	24	55	3	10	154	180	126	77	108	355
MSC58A2	58	25.4	90	70	85	M6	130	155	165	25	24	55	3	10	154	180	116	70	103	325
MSC58B2	58	25.4	90	70	85	M6	130	155	190	25	24	55	3	10	154	180	116	70	103	350
MSC63A2	63	25.4	90	80	100	M6	130	155	165	28	24	55	3	10	154	180	126	77	108	330
MSC63B2	63	25.4	90	80	100	M6	130	155	190	28	24	55	3	10	154	180	126	77	108	355
MSC74A2	74	30	110	95	115	M6	155	155	190	25	24	55	3	12	180	180	147	87	126	370
MSC81A2	81	40	158	110	130	M8	160	190	254	20	25	64	3.5	12	190	225	162	99	133	462
MSC81B2	81	40	158	110	130	M8	160	190	318	20	25	64	3.5	12	190	225	162	99	133	526
MSC93A2	93	40	158	110	130	M8	190	190	229	25	25	64	3.5	14	225	225	184	108	145	442
MSC93B2	93	40	158	110	130	M8	190	190	254	25	25	64	3.5	14	225	225	184	108	145	467

* Note:The size “L” With brake type is 30mm more

MSV/MYV Series

Three/Single-Phase Aluminum Housing Pad Mount Motors

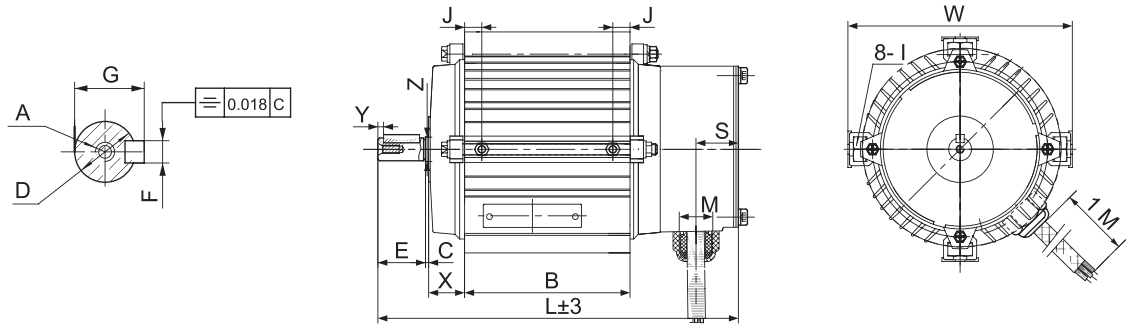
MYV Series Technical Data (at 230V/50Hz)

Model	Power (KW)	Current (A)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	Starting Current (A)	Run Capacitor (μF/V)	Noise dB(A)	W.T (Kg)
MYV711-2	0.37	2.60	2780	67	0.93	0.5	1.65	10	12μF/450V	75	5.6
MYV712-2	0.55	3.50	2790	73	0.95	0.5	1.8	15	16μF/450V	75	6.95
MYV713-2	0.75	4.50	2810	74	0.97	0.48	1.8	20	25μF/450V	75	8.15
MYV801-2	0.75	4.40	2810	74	0.98	0.4	1.8	19	25μF/450V	75	8.5
MYV802-2	1.1	6.30	2810	75	0.98	0.4	1.8	30	35μF/450V	78	11
MYV803-2	1.5	8.50	2810	77	0.98	0.33	1.8	40	40μF/450V	80	12.75
MYV90S-2	1.5	8.40	2820	77	0.98	0.33	1.72	35	45μF/450V	80	13.7
MYV90L-2	2.2	12.10	2850	78	0.98	0.29	1.8	61	60μF/450V	80	16.7
MYV100L-2	3	16.50	2860	79	0.99	0.28	1.8	73	80μF/450V	83	23.1
MYV711-4	0.25	1.80	1390	61	0.96	0.5	1.6	5	14μF/450V	65	5.8
MYV712-4	0.37	2.70	1390	62	0.96	0.5	1.6	8	16μF/450V	68	6.9
MYV713-4	0.55	3.70	1390	64	0.97	0.48	1.7	12	20μF/450V	70	8.25
MYV801-4	0.55	3.50	1410	64	0.98	0.37	1.8	13	25μF/450V	70	9.55
MYV802-4	0.75	4.70	1410	68	0.98	0.37	1.65	17	30μF/450V	70	10.45
MYV90S-4	1.1	6.30	1410	71	0.98	0.35	1.75	24	40μF/450V	73	13.1
MYV90L-4	1.5	8.50	1420	73	0.96	0.33	1.8	36	45μF/450V	75	16.45
MYV100L1-4	2.2	12.90	1440	77	0.96	0.32	1.8	57	80μF/450V	78	22.8
MYV711-6	0.18	1.49	920	57	0.92	0.45	1.5	4	16μF/450V	68	6.3
MYV712-6	0.25	2.00	920	59	0.92	0.45	1.5	5	20μF/450V	68	7.6
MYV801-6	0.37	2.78	920	63	0.92	0.35	1.6	8	20μF/450V	68	9
MYV802-6	0.55	3.90	920	66	0.93	0.35	1.6	14	25μF/450V	70	11.6
MYV90S-6	0.75	5.05	920	68	0.95	0.35	1.6	16	35μF/450V	70	13.5
MYV90L-6	1.1	7.30	920	69	0.95	0.35	1.6	25	50μF/450V	70	16.2

MSV Series 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)	I_{st}/I_n (Times)	Noise dB(A)	W.T (Kg)	Moment Of Inertia ($Kg*M^2$)	Rated Torque (N.M)
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
MSV711-2	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	6	64	5.6	0.00034	1.30
MSV712-2	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	6	64	6.1	0.00042	1.90
MSV713-2	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	6	65	7	0.00054	2.63
MSV801-2	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	6	67	9.1	0.00083	2.59
MSV802-2	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	6	67	10.2	0.00097	3.79
MSV803-2	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	6	70	11.7	0.00125	5.12
MSV90S-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	6	72	12	0.00136	5.05
MSV90L1-2	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	6	72	15	0.0017	7.40
MSV90L2-2	3	11.08	6.42	3.69	10.56	6.10	3.52	10.16	5.88	3.39	2840	82.6	0.86	2.2	2.4	6	74	18.5	0.0021	10.09
MSV100L1-2	3	10.96	6.34	3.65	10.44	6.03	3.48	10.04	5.81	3.35	2840	82.6	0.87	2.2	2.3	7	76	22.3	0.0036	10.09
MSV100L2-2	4	14.33	8.30	4.78	13.65	7.88	4.55	13.14	7.60	4.38	2850	84.2	0.87	2.2	2.3	7.5	77	25.2	0.0044	13.41
MSV112M-2	4	14.33	8.30	4.78	13.65	7.88	4.55	13.14	7.60	4.38	2880	84.2	0.87	2.2	2.3	7.5	77	26.7	0.0054	13.27
MSV112L-2	5.5	19.14	11.08	6.38	18.23	10.53	6.08	17.54	10.15	5.85	2880	85.7	0.88	2.2	2.3	7.5	78	30.2	0.0068	18.25
MSV711-4	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	6	55	5.4	0.00051	1.77
MSV712-4	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	6	55	6.2	0.00081	2.58
MSV713-4	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	6	57	7.3	0.00092	3.81
MSV801-4	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	6	58	9	0.00128	3.84
MSV802-4	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	6	58	10	0.0015	5.19
MSV803-4	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	6	60	12.3	0.00184	7.56
MSV90S-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	6	61	12.1	0.00221	7.51
MSV90L1-4	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	6	61	14.6	0.00284	10.24
MSV90L2-4	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	7	63	18.3	0.0037	15.02
MSV100L1-4	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	7	64	21	0.0058	14.80
MSV100L2-4	3	11.77	6.81	3.92	11.21	6.47	3.74	10.79	6.24	3.60	1420	82.6	0.81	2.2	2.3	7	64	24.7	0.0073	20.19
MSV100L3-4	4	15.20	8.80	5.07	14.18	8.36	4.83	13.94	8.06	4.65	1430	84.2	0.82	2.2	2.3	7	65	29	0.0092	26.73
MSV112M-4	4	15.02	8.70	5.01	14.31	8.26	4.77	13.77	7.96	4.59	1430	84.2	0.83	2.2	2.2	7	65	30.5	0.0107	26.73
MSV112L-4	5.5	20.29	11.75	6.76	19.33	11.16	6.44	18.60	10.76	6.20	1440	85.7	0.83	2.2	2.2	7	68	34.8	0.013	36.49
MSV711-6	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	4	52	6	0.00083	1.95
MSV712-6	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	4	52	6.5	0.00095	2.65
MSV713-6	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	4	54	7.2	0.00114	3.97
MSV801-6	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	4	56	8.2	0.00153	3.93
MSV802-6	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	4	56	9.9	0.00232	5.84
MSV803-6	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	4	58	11.3	0.00286	7.96
MSV90S-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	5.5	59	11.7	0.00376	7.79
MSV90L1-6	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	5.5	59	15.1	0.00467	11.36
MSV90L2-6	1.5	7.19	4.16	2.40	6.88	3.97	2.29	6.59	3.81	2.20	930	73	0.75	2.2	2.2	6	61	18	0.00567	15.41
MSV100L1-6	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	6	61	19.1	0.0073	15.17
MSV100L2-6	2.2	9.87	5.71	3.29	9.40	5.44	3.13	9.04	5.23	3.01	950	77	0.76	2.2	2.2	6	63	23.4	0.0084	22.13
MSV112M-6	2.2	9.74	5.64	3.25	9.28	5.36	3.09	8.93	5.16	2.98	955	78	0.76	2.2	2.2	6	64	25.4	0.013	22.01
MSV112L-6	3	13.28	7.69	4.43	12,7	7.31	4.24	12.17	7.04	4.06	955	78	0.76	2.2	2.2	6	69	30	0.019	30.02

MSV/MYV Series Motors Overall & Installation Dimensions



MYV Series Motors Overall & Installation Dimensions

Model	Power (KW)	A	B	C	D	E	F	G	Y	Z	W	I	J	L	X	M	S
MYV711-2	0.37	M5X10	115	2	Φ14	30	5	16	4.5	Φ14.85	147	M10	11	235	26	M16	22
MYV712-2	0.55		135											255			
MYV713-2	0.75		155											275			
MYV711-4	0.25		120											240			
MYV712-4	0.37		140											260			
MYV713-4	0.55		160											280			
MYV711-6	0.18		135											255			
MYV712-6	0.25		150											270			
MYV801-2	0.75	M6X12	125	2	Φ19	40	6	21.5	7	Φ19.85	173	M12	13	267	30	M16	26
MYV802-2	1.1		145											287			
MYV803-2	1.5		165											307			
MYV801-4	0.55		130											272			
MYV802-4	0.75		145											287			
MYV801-6	0.37		140											282			
MYV802-6	0.55		165											307			
MYV90S-2	1.5	M6X12	150	8	Φ24	50	8	27	4	Φ24.85	191	M12	13	320	35	M16	28
MYV90L-2	2.2		180											350			
MYV90S-4	1.1		155											325			
MYV90L-4	1.5		185											355			
MYV90S-6	0.75		155											325			
MYV90L-6	1.1		195											365			
MYV100L-2	3	M8X16	175	8	Φ28	60	8	31	4	Φ29.7	211	M12	13	356	27	M20	28
MYV100L1-4	2.2		175											356			

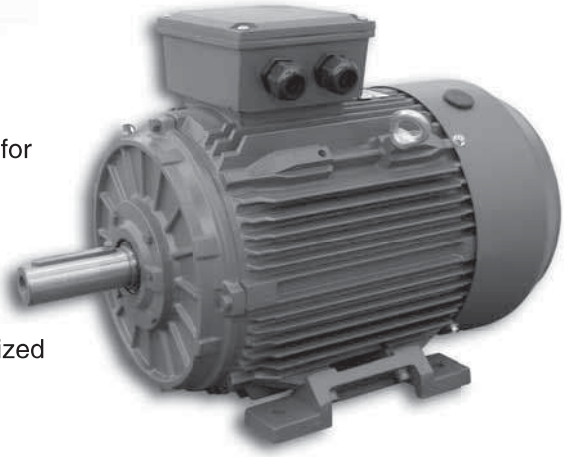
MSV Series Motors Overall & Installation Dimensions

Model	Power (KW)	A	B	C	D	E	F	G	Y	Z	W	I	J	L	X	M	S
MSV711-2	0.37		110											230			
MSV712-2	0.55		125											245			
MSV713-2	0.75		140											260			
MSV711-4	0.25		110											230			
MSV712-4	0.37	M5X10	125	2	Φ14	30	5	16	4.5	Φ14.85	147	M10	11	245	26	M16	22
MSV713-4	0.55		145											265			
MSV711-6	0.18		125											245			
MSV712-6	0.25		135											255			
MSV713-6	0.37		155											275			
MSV801-2	0.75		120											257			
MSV802-2	1.1		135											272			
MSV803-2	1.5		155											292			
MSV801-4	0.55		115											252			
MSV802-4	0.75	M6X12	135	2	Φ19	40	6	21.5	7	Φ19.85	173	M12	13	272	30	M16	26
MSV803-4	1.1		155											292			
MSV801-6	0.37		115											252			
MSV802-6	0.55		135											272			
MSV803-6	0.75		155											292			
MSV90S-2	1.5		140											310			
MSV90L1-2	2.2		170											340			
MSV90L2-2	3		200											370			
MSV90S-4	1.1		135											305			
MSV90L1-4	1.5	M6X12	160	8	Φ24	50	8	27	4	Φ24.85	191	M12	13	330	35	M16	28
MSV90L2-4	2.2		195											365			
MSV90S-6	0.75		135											305			
MSV90L1-6	1.1		170											340			
MSV90L2-6	1.5		200											370			
MSV100L1-2	3		150											331			
MSV100L2-2	4		175											356			
MSV100L1-4	2.2		150											331			
MSV100L2-4	3	M8X16	175	8	Φ28	60	8	31	4	Φ29.7	211	M12	13	356	27	M20	25
MSV100L3-4	4		210											391			
MSV100L1-6	1.5		150											331			
MSV100L2-6	2.2		185											366			
MSV112M-2	4		165											337			
MSV112L-2	5.5		190											362			
MSV112M-4	4	M8X16	190	4	Φ28	60	8	31	4	Φ29.7	211	M12	13	362	28	M25	25
MSV112L-4	5.5		220											392			
MSV112M-6	2.2		165											337			
MSV112L-6	3		200											372			

"ECOL" Motors

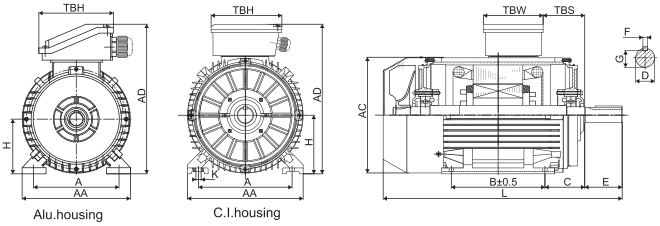
FEATURES

- 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

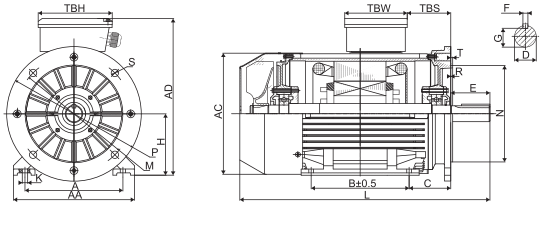


APPLICATIONS

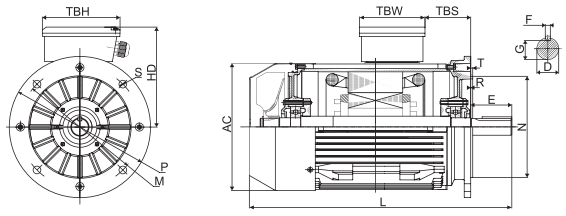
- Pumps
- Waste water treatment plants
- Air compressors, fans
- Gear reducers and power transmission
- Pulp and paper mills
- Steel mill
- Conveyors, elevators
- Should be "Material handling equipment"
- Agricultural application
- Mining equipment
- Hydraulic equipment



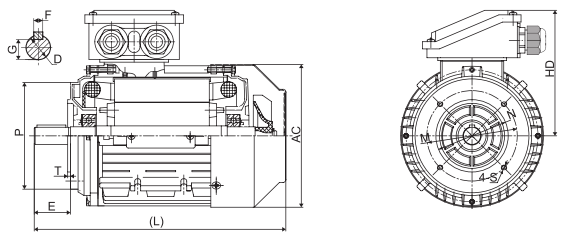
IM B3 Figure 1



IM B35 Figure 2



IM B5 Figure 3



IM B14 Figure 4

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	149	Φ60	140	18	53	Φ19	436	553	328	Φ465	814	190	186	233
225M	2	225	356	311	149	Φ55	110	16	49	Φ19	436	553	328	Φ465	809	202	186	233
	4,6,8	225	356	311	149	Φ60	140	18	53	Φ19	436	553	328	Φ465	839	202	186	233
250M	2	250	406	349	168	Φ60	140	18	53	Φ24	484	616	366	Φ506	918	233	218	260
	4,6,8	250	406	349	168	Φ65	140	18	58	Φ24	484	616	366	Φ506	918	233	218	260
280S/M	2	280	457	368/419	190	Φ65	140	18	58	Φ24	557	668	388	Φ559	984/1035	265	218	260
	4,6,8	280	457	368/419	190	Φ75	140	20	67.5	Φ24	557	668	388	Φ559	984/1035	265	218	260
315S	2	315	508	406	216	Φ65	140	18	58	Φ28	630	840	525	Φ680	1160	130	350	430
	4,6,8	315	508	406	216	Φ80	170	22	71	Φ28	630	840	525	Φ680	1190	130	350	430
315M/L	2	315	508	457/508	216	Φ65	140	18	58	Φ28	630	840	525	Φ680	1310	130	350	430
	4,6,8	315	508	457/508	216	Φ80	170	22	71	Φ28	630	840	525	Φ680	1340	130	350	430
355M/L	2	355	610	560/630	254	Φ75	140	20	67.5	Φ28	740	920	565	Φ820	1770	180	350	430
	4,6,8	355	610	560/630	254	Φ95	170	25	86	Φ28	740	920	565	Φ820	1840	180	350	430

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	6314C3		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_{nl} 400V (A)	I_n 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_{nl} 400V (A)	I_n 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											
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_{nl} 400V (A)	I_{fl} 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											
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

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Model	Power (KW)	Full Load Speed (r/min)	I_{nl} 400V (A)	I_n 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											
TCI 801-2	0.75	2860	0.86	1.77	6.8	80.5	0.76	2.51	2.4	2.1	2.8
TCI 802-2	1.1	2860	1.19	2.43	7.2	82.8	0.79	3.69	2.4	2.1	2.9
TCI 90S-2	1.5	2860	1.55	3.16	7.5	84.1	0.81	5.02	2.4	2	2.7
TCI 90L-2	2.2	2860	2.15	4.45	7.6	85.6	0.83	7.38	2.4	2.1	2.7
TCI 100L-2	3	2880	2.79	6.04	8.1	86.7	0.83	10.05	2.3	2	2.8
TCI 112M-2	4	2900	3.68	7.42	8.3	87.6	0.89	13.13	2.4	2	2.7
TCI 132S1-2	5.5	2900	4.44	10.4	8.3	88.6	0.86	18.08	2.3	2	2.9
TCI 132S2-2	7.5	2900	5.75	14.1	7.7	89.5	0.86	24.61	2.3	2	2.8
TCI 160M1-2	11	2945	7.59	18.90	7.5	90.6	0.92	35.97	2.4	2.1	3
TCI 160M2-2	15	2945	10.27	25.53	7.5	91.3	0.93	49.09	2.4	2.1	3
TCI 160L-2	18.5	2945	11.37	31.30	7.5	91.8	0.93	60.46	2.4	2.1	2.9
TCI 180M-2	22	2945	13.47	38.70	7.5	92.2	0.89	71.70	2.3	2	2.8
TCI 200L1-2	30	2960	17.25	51.80	7.5	92.9	0.90	97.94	2.4	2	2.7
TCI 200L2-2	37	2960	21.18	63.60	7.5	93.3	0.90	120.59	2.3	2	2.7
TCI 225M-2	45	2975	24.19	77.00	7.5	93.7	0.90	146.66	2.3	2	2.8
TCI 250M-2	55	2975	29.47	93.80	7.5	94	0.90	178.64	2.3	1.9	2.7
TCI 280S-2	75	2980	37.53	125.80	7.5	94.6	0.91	243.60	2.2	1.9	2.7
TCI 280M-2	90	2980	42.07	150.30	7.5	94.8	0.91	292.33	2.2	1.9	2.6
TCI 315S-2	110	2980	61.77	185.51	7.7	95.1	0.90	357.29	2	1.8	2.3
TCI 315M-2	132	2980	69.70	219.47	7.6	95.4	0.91	428.74	2	1.8	2.3
TCI 315L1-2	160	2980	89.48	268.70	7.8	95.5	0.90	518.81	2	1.8	2.3
TCI 315L2-2	200	2980	118.19	339.65	7.9	95.5	0.89	648.51	2	1.8	2.3
TCI 355M-2	250	2980	139.81	419.84	7.8	95.5	0.90	810.64	2	1.8	2.3
TCI 355L-2	315	2980	186.16	534.95	7.8	95.5	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
TCI 802-4	0.75	1420	0.82	1.85	6.6	82.2	0.71	5.04	2.3	2.1	2.9
TCI 90S-4	1.1	1420	1.18	2.77	6.8	83.8	0.70	7.37	2.3	2.1	2.7
TCI 90L-4	1.5	1420	1.48	3.78	7	85	0.68	10.09	2.4	2	2.7
TCI 100L1-4	2.2	1430	2.13	4.50	7.4	86.4	0.81	14.69	2.4	2.1	2.9
TCI 100L2-4	3	1435	2.87	6.50	7.4	87.4	0.78	20.03	2.4	2	2.8
TCI 112M-4	4	1450	3.52	8.0	7.5	88.3	0.82	26.62	2.5	2	3
TCI 132S-4	5.5	1450	4.60	10.8	7.8	89.2	0.82	36.73	2.3	2	2.8
TCI 132M-4	7.5	1460	5.20	14.7	7.4	90.1	0.82	50.08	2.3	2	2.7
TCI 160M-4	11	1460	7.55	19.51	7	91	0.89	72.95	2.5	2.1	2.8
TCI 160L-4	15	1460	9.72	26.28	7.5	91.8	0.90	99.13	2.4	2.1	2.9
TCI 180M-4	18.5	1470	11.93	32.20	7.5	92.2	0.89	122.26	2.4	2.1	3
TCI 180L-4	22	1470	12.69	38.50	7.5	92.6	0.89	143.89	2.3	2	3
TCI 200L-4	30	1475	18.17	54.00	7.2	93.2	0.86	196.22	2.4	2	2.7
TCI 225S-4	37	1480	22.31	66.50	7.2	93.6	0.86	240.36	2.4	2	2.7
TCI 225M-4	45	1480	27.05	79.50	7.2	93.9	0.87	290.35	2.3	2	2.8
TCI 250M-4	55	1480	29.41	96.90	7.2	94.2	0.87	354.87	2.4	1.9	2.7
TCI 280S-4	75	1485	39.90	131.40	7.2	94.7	0.87	483.92	2.2	1.9	2.6
TCI 280M-4	90	1485	44.85	157.20	7.2	95	0.87	580.70	2.2	1.9	2.6
TCI 315S-4	110	1485	61.64	185.12	7.8	95.3	0.90	709.75	2	1.8	2.3
TCI 315M-4	132	1485	69.63	219.24	7.8	95.5	0.91	851.69	2	1.8	2.3
TCI 315L1-4	160	1485	84.22	265.19	7.9	95.7	0.91	1032.36	2	1.8	2.3
TCI 315L2-4	200	1485	111.61	335.17	7.7	95.7	0.90	1290.45	2	1.8	2.3
TCI 355M-4	250	1485	147.43	423.67	7.9	95.7	0.89	1613.06	2	1.8	2.3
TCI 355L-4	315	1485	175.79	527.90	7.8	95.7	0.90	2032.45	2	1.8	2.3

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6 Pole - 1000 rpm Synchronous Speed 50Hz											
TCI 90S-6	0.75	940	1.04	1.95	5.5	77.7	0.71	7.66	2.2	2	2.7
TCI 90L-6	1.1	940	1.49	2.69	5.5	79.9	0.74	11.23	2.3	2.1	2.6
TCI 100L-6	1.5	950	1.93	3.58	6	81.5	0.74	15.24	2.3	2.1	2.7
TCI 112M-6	2.2	960	2.77	4.98	6	83.4	0.76	22.35	2.3	2.1	2.9
TCI 132S-6	3	960	3.71	6.45	6.5	84.9	0.79	30.48	2.4	2.2	2.8
TCI 132M1-6	4	960	4.73	8.24	6.5	86.1	0.81	40.42	2.5	2	2.8
TCI 132M2-6	5.5	960	6.03	11.2	6.5	87.4	0.81	55.58	2.3	1.9	2.8
TCI 160M-6	7.5	960	8.12	16.10	6.5	88.5	0.76	74.99	2.4	1.9	2.7
TCI 160L-6	11	970	11.00	22.90	6.5	89.8	0.77	109.42	2.5	2	2.8
TCI 180L-6	15	970	14.35	28.10	7	90.7	0.85	149.21	2.3	2.1	2.9
TCI 200L1-6	18.5	970	15.12	33.20	7	91.3	0.88	183.07	2.4	2.1	3.2
TCI 200L2-6	22	970	17.88	39.22	7	91.8	0.88	217.70	2.3	1.9	3.1
TCI 225M-6	30	980	24.20	54.54	7	92.5	0.86	293.82	2.2	1.9	2.7
TCI 250M-6	37	980	27.28	66.75	7	93	0.86	362.38	2.3	2.1	2.7
TCI 280S-6	45	980	31.54	85.50	7	93.5	0.81	438.49	2.3	2	2.8
TCI 280M1-6	55	980	36.61	104.60	7	93.9	0.81	535.93	2.2	1.9	2.7
TCI 315S-6	75	980	44.84	128.85	7.9	94.4	0.89	730.81	2.1	1.9	2.5
TCI 315M-6	90	980	50.70	152.26	8	94.8	0.90	876.98	2	1.8	2.3
TCI 315L1-6	110	980	61.77	185.51	7.7	95.1	0.90	1071.86	2	1.8	2.3
TCI 315L2-6	132	980	78.09	224.40	.8	95.4	0.89	1286.23	2	1.8	2.3
TCI 355M1-6	160	980	84.31	265.47	7.6	95.6	0.91	1559.07	2	1.8	2.3
TCI 355M2-6	200	980	111.73	335.52	7.8	95.6	0.90	1948.84	2	1.8	2.3
TCI 355L-6	250	980	147.59	424.12	7.8	95.6	0.89	2436.05	2	1.8	2.3
8 Pole - 750 rpm Synchronous Speed 50Hz											
TCI 100L1-8	0.75	690	1.19	0.02	4.5	73.5	69.00	10.38	2.2	2	2.5
TCI 100L2-8	1.1	690	1.69	0.03	4.5	76.3	69.00	15.22	2.3	2.1	2.6
TCI 112M1-8	1.5	695	2.18	0.04	4.8	78.4	70.00	20.61	2.3	2.1	2.6
TCI 132S-8	2.2	700	3.10	0.06	5	80.9	70.00	30.01	2.3	2.1	2.7
TCI 132M-8	3	700	4.03	0.07	5.1	82.7	71.00	40.93	2.4	2.2	2.7
TCI 160M1-8	4	720	5.27	10.80	6	84.2	0.63	53.80	2.5	2	2.8
TCI 160M2-8	5.5	720	6.92	14.86	6	85.8	0.63	73.97	2.3	1.9	2.6
TCI 160L-8	7.5	720	9.29	18.60	6	87.2	0.67	100.17	2.4	1.9	2.7
TCI 180L-8	11	730	13.00	23.80	6.6	88.8	0.75	145.89	2.3	2	2.8
TCI 200L-8	15	730	17.49	30.60	6.6	90	0.78	198.94	2.2	2	2.9
TCI 2225S-8	18.5	730	20.79	38.65	6.6	90.7	0.76	243.67	2.2	2	3.2
TCI 2225M-8	22	740	23.85	43.50	6.6	91.2	0.80	289.77	2.1	1.9	3.1
TCI 250M-8	30	740	32.21	61.50	6.6	92.1	0.76	392.44	2.1	1.9	2.7
TCI 280S-8	37	740	37.04	73.50	6.6	92.7	0.78	484.01	2.1	1.8	2.5
TCI 280M1-8	45	740	44.81	88.88	6.6	93.2	0.78	584.65	2	1.8	2.5
TCI 315S-8	55	740	50.92	107.25	7.5	93.7	0.79	709.75	2	1.8	2.4
TCI 315M-8	75	740	68.92	145.16	7.7	94.4	0.79	967.83	2	1.8	2.3
TCI 315L1-8	90	740	79.56	171.47	7.8	94.7	0.80	1161.40	2	1.8	2.2
TCI 315L2-8	110	745	96.83	208.70	7.8	95.1	0.80	1409.96	2	1.8	2.3
TCI 355M1-8	132	745	99.06	237.76	7.9	95.4	0.84	1691.96	2	1.8	2.3
TCI 355M2-8	160	745	119.70	287.29	7.8	95.7	0.84	2050.86	2	1.8	2.3
TCI 355L-8	200	745	136.95	350.76	7.7	95.7	0.86	2563.57	2	1.8	2.3

MEPS2 (Aus) Premium Efficiency Motors Technical Data

Model	Power (KW)	Full Load Speed (r/min)	I_{nl} 400V (A)	I_{fl} 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											
TCP 801-2	0.75	2848	0.84	1.70	5	82.9	0.77	2.51	2.4	2.1	2.8
TCP 802-2	1.1	2846	1.17	2.41	5	84.5	0.78	3.69	2.4	2.1	2.9
TCP 90S-2	1.5	2852	1.51	3.18	5	86.2	0.79	5.02	2.4	2	2.7
TCP 90L-2	2.2	2845	2.10	4.54	5.5	87.5	0.80	7.38	2.4	2.1	2.7
TCP 100L-2	3	2851	2.74	6.04	5.5	88.5	0.81	10.05	2.3	2	2.8
TCP 112M-2	4	2910	3.61	7.98	6	89.3	0.81	13.13	2.4	2	2.7
TCP 132S1-2	5.5	2905	4.37	10.49	6	90.1	0.84	18.08	2.3	2	2.9
TCP 132S2-2	7.5	2910	5.66	14.01	6.4	90.9	0.85	24.61	2.3	2	2.8
TCP 160M1-2	11	2920	7.48	19.86	6.3	91.9	0.87	35.97	2.4	2.1	3
TCP 160M2-2	15	2918	10.14	26.90	6.8	92.5	0.87	49.09	2.4	2.1	3
TCP 160L-2	18.5	2922	11.24	32.30	7	92.9	0.89	60.46	2.4	2.1	2.9
TCP 180M-2	22	2930	13.31	38.24	7.2	93.3	0.89	71.70	2.3	2	2.8
TCP 200L1-2	30	2925	17.06	51.24	7	93.9	0.90	97.94	2.4	2	2.7
TCP 200L2-2	37	2930	20.98	62.99	7.2	94.2	0.90	120.59	2.3	2	2.7
TCP 225M-2	45	2930	23.96	75.45	7	94.6	0.91	146.66	2.3	2	2.8
TCP 250M-2	55	2940	29.20	91.93	7.8	94.9	0.91	178.64	2.3	1.9	2.7
TCP 280S-2	75	2940	37.22	123.34	7.8	95.4	0.92	243.60	2.2	1.9	2.7
TCP 280M-2	90	2940	41.76	146.27	7.7	95.5	0.93	292.33	2.2	1.9	2.6
TCP 315S-2	110	2940	61.32	184.15	7.7	95.8	0.90	357.29	2	1.8	2.3
TCP 315M-2	132	2940	69.19	217.87	7.6	96.1	0.91	428.74	2	1.8	2.3
TCP 315L1-2	160	2945	88.92	267.02	7.8	96.1	0.90	518.81	2	1.8	2.3
TCP 315L2-2	200	2945	117.46	337.53	7.9	96.1	0.89	648.51	2	1.8	2.3
TCP 355M-2	250	2945	138.93	417.22	7.8	96.1	0.90	810.64	2	1.8	2.3
TCP 355L-2	315	2945	184.99	531.61	7.8	96.1	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
TCP 802-4	0.75	1420	0.80	1.64	5.4	84.5	0.78	5.04	2.3	2.1	2.9
TCP 90S-4	1.1	1425	1.15	2.37	5.3	85.9	0.78	7.37	2.3	2.1	2.7
TCP 90L-4	1.5	1420	1.44	3.11	5.5	87	0.80	10.09	2.4	2	2.7
TCP 100L1-4	2.2	1430	2.09	4.50	6	88.2	0.80	14.69	2.4	2.1	2.9
TCP 100L2-4	3	1430	2.82	6.07	6	89.1	0.80	20.03	2.4	2	2.8
TCP 112M-4	4	1435	3.46	7.83	6.3	89.9	0.82	26.62	2.5	2	3
TCP 132S-4	5.5	1430	4.53	10.55	6.5	90.7	0.83	36.73	2.3	2	2.8
TCP 132M-4	7.5	1430	5.12	13.60	6.4	91.5	0.87	50.08	2.3	2	2.7
TCP 160M-4	11	1440	7.46	19.79	6.8	92.2	0.87	72.95	2.5	2.1	2.8
TCP 160L-4	15	1445	9.60	26.48	6.7	92.9	0.88	99.13	2.4	2.1	2.9
TCP 180M-4	18.5	1445	11.79	32.52	7.2	93.3	0.88	122.26	2.4	2.1	3
TCP 180L-4	22	1460	12.55	37.70	7.3	93.6	0.90	143.89	2.3	2	3
TCP 200L-4	30	1460	17.97	51.65	7.6	94.2	0.89	196.22	2.4	2	2.7
TCP 225S-4	37	1470	22.10	63.50	7.5	94.5	0.89	240.36	2.4	2	2.7
TCP 225M-4	45	1480	26.79	76.99	7.3	94.8	0.89	290.35	2.3	2	2.8
TCP 250M-4	55	1480	29.16	91.83	7.4	95	0.91	354.87	2.4	1.9	2.7
TCP 280S-4	75	1480	39.90	125.62	7.5	94.7	0.91	483.92	2.2	1.9	2.6
TCP 280M-4	90	1480	44.85	148.64	7.7	95	0.92	580.70	2.2	1.9	2.6
TCP 315S-4	110	1480	61.52	184.73	7.8	95.5	0.90	709.75	2	1.8	2.3
TCP 315M-4	132	1480	69.48	218.78	7.8	95.7	0.91	851.69	2	1.8	2.3
TCP 315L1-4	160	1480	83.96	264.36	7.9	96	0.91	1032.36	2	1.8	2.3
TCP 315L2-4	200	1480	111.15	333.78	7.7	96.1	0.90	1290.45	2	1.8	2.3
TCP 355M-4	250	1480	146.52	421.03	7.9	96.3	0.89	1613.06	2	1.8	2.3
TCP 355L-4	315	1480	174.69	524.61	7.8	96.3	0.90	2032.45	2	1.8	2.3

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Model	Power (KW)	Full Load Speed (r/min)	I_{nl} 400V (A)	I_n 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)
6 Pole - 1000 rpm Synchronous Speed 50Hz											
TCP 90S-6	0.75	935	1.01	1.87	5.3	80.4	0.72	7.66	2.2	2	2.7
TCP 90L-6	1.1	935	1.44	2.68	5	82.4	0.72	11.23	2.3	2.1	2.6
TCP 100L-6	1.5	940	1.88	3.54	4.9	83.8	0.73	15.24	2.3	2.1	2.7
TCP 112M-6	2.2	940	2.70	5.09	5.7	85.5	0.73	22.35	2.3	2.1	2.9
TCP 132S-6	3	940	3.62	6.83	6.3	86.9	0.73	30.48	2.4	2.2	2.8
TCP 132M1-6	4	945	4.64	8.88	6.2	87.9	0.74	40.42	2.5	2	2.8
TCP 132M2-6	5.5	945	5.92	11.72	6.8	89.1	0.76	55.58	2.3	1.9	2.8
TCP 160M-6	7.5	955	7.98	15.81	7	90.1	0.76	74.99	2.4	1.9	2.7
TCP 160L-6	11	960	10.83	22.32	7.3	91.2	0.78	109.42	2.5	2	2.8
TCP 180L-6	15	960	14.14	29.79	7.2	92	0.79	149.21	2.3	2.1	2.9
TCP 200L1-6	18.5	965	14.92	34.78	6.9	92.5	0.83	183.07	2.4	2.1	3.2
TCP 200L2-6	22	965	17.67	41.18	7.3	92.9	0.83	217.70	2.3	1.9	3.1
TCP 225M-6	30	975	23.92	55.74	7.4	93.6	0.83	293.82	2.2	1.9	2.7
TCP 250M-6	37	975	26.99	66.84	7.5	94	0.85	362.38	2.3	2.1	2.7
TCP 280S-6	45	980	31.24	80.01	7.7	94.4	0.86	438.49	2.3	2	2.8
TCP 280M1-6	55	980	36.26	96.26	7.7	94.8	0.87	535.93	2.2	1.9	2.7
TCP 315S-6	75	980	44.46	127.77	7.9	95.2	0.89	730.81	2.1	1.9	2.5
TCP 315M-6	90	980	50.33	151.14	8	95.5	0.90	876.98	2	1.8	2.3
TCP 315L1-6	110	980	61.32	184.15	7.7	95.8	0.90	1071.86	2	1.8	2.3
TCP 315L2-6	132	980	77.52	222.77	.8	96.1	0.89	1286.23	2	1.8	2.3
TCP 355M1-6	160	980	83.78	263.81	7.6	96.2	0.91	1559.07	2	1.8	2.3
TCP 355M2-6	200	980	111.03	333.43	7.8	96.2	0.90	1948.84	2	1.8	2.3
TCP 355L-6	250	980	146.67	421.47	7.8	96.2	0.89	2436.05	2	1.8	2.3
8 Pole - 750 rpm Synchronous Speed 50Hz											
TCP 100L1-8	0.75	690	1.15	2.05	4.5	76.5	0.69	10.38	2.2	2	2.5
TCP 100L2-8	1.1	690	1.63	2.91	4.5	79.1	0.69	15.22	2.3	2.1	2.6
TCP 112M1-8	1.5	695	2.11	3.82	4.8	81	0.70	20.61	2.3	2.1	2.6
TCP 132S-8	2.2	700	3.01	5.45	5	83.3	0.70	30.01	2.3	2.1	2.7
TCP 132M-8	3	700	3.92	7.18	5.1	84.9	0.71	40.93	2.4	2.2	2.7
TCP 160M1-8	4	710	5.15	9.43	5.3	86.2	0.71	53.80	2.5	2	2.8
TCP 160M2-8	5.5	710	6.77	12.57	5.5	87.7	0.72	73.97	2.3	1.9	2.6
TCP 160L-8	7.5	715	9.11	16.91	6	88.9	0.72	100.17	2.4	1.9	2.7
TCP 180L-8	11	720	12.78	24.09	6	90.3	0.73	145.89	2.3	2	2.8
TCP 200L-8	15	720	17.22	32.45	6.4	91.4	0.73	198.94	2.2	2	2.9
TCP 2225S-8	18.5	725	20.49	39.22	6.4	92	0.74	243.67	2.2	2	3.2
TCP 2225M-8	22	725	23.54	45.82	7	92.4	0.75	289.77	2.1	1.9	3.1
TCP 250M-8	30	730	31.83	61.95	7	93.2	0.75	392.44	2.1	1.9	2.7
TCP 280S-8	37	730	36.65	74.02	7.5	93.7	0.77	484.01	2.1	1.8	2.5
TCP 280M1-8	45	735	44.34	89.55	7.5	94.2	0.77	584.65	2	1.8	2.5
TCP 315S-8	55	740	50.44	106.23	7.5	94.6	0.79	709.75	2	1.8	2.4
TCP 315M-8	75	740	68.34	143.94	7.7	95.2	0.79	967.83	2	1.8	2.3
TCP 315L1-8	90	740	78.90	170.04	7.8	95.5	0.80	1161.40	2	1.8	2.2
TCP 315L2-8	110	745	96.13	207.17	7.8	95.8	0.80	1409.96	2	1.8	2.3
TCP 355M1-8	132	745	98.34	236.03	7.9	96.1	0.84	1691.96	2	1.8	2.3
TCP 355M2-8	160	745	118.95	285.50	7.8	96.3	0.84	2050.86	2	1.8	2.3
TCP 355L-8	200	745	136.10	348.58	7.7	96.3	0.86	2563.57	2	1.8	2.3

IEC Frame - NEMA EPACT Efficiency TEFC Motors Technical Data

Model	Power (KW)	60Hz						50Hz						I_{st}/I_n (Times)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)
		Full Load Speed (r/min)	I_{nl} 460V (A)	I_{fl} 460V (A)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	Full Load Speed (r/min)	I_{nl} 460V (A)	I_{fl} 460V (A)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)				
801-2	0.75	3495	0.85	1.66	75.5	0.75	2.05	2848	0.96	1.86	77.4	0.75	2.51	6	2.7	2.1	2.8
802-2	1.1	3495	1.01	2.12	82.5	0.79	3.01	2846	1.20	2.52	79.6	0.79	3.69	6.7	2.7	2.1	2.9
90S-2	1.5	3510	1.11	2.67	84	0.84	4.08	2852	1.32	3.17	81.3	0.84	5.02	6.1	2.3	2	2.7
90L-2	2.2	3525	1.60	3.84	85.5	0.84	5.96	2845	1.89	4.54	83.2	0.84	7.38	7	2.6	2.1	2.7
100L-2	3	3540	1.68	4.84	87.5	0.89	8.09	2851	2.00	5.75	84.6	0.89	10.05	7.6	2.5	2	2.8
112M-2	4	3540	2.24	6.45	87.5	0.89	10.79	2910	2.63	7.56	85.8	0.89	13.13	7.8	2.5	2	2.7
132S1-2	5.5	3540	3.05	8.76	88.5	0.89	14.84	2905	3.57	10.25	87	0.89	18.08	7.8	2.4	2	2.9
132S2-2	7.5	3545	4.33	11.95	89.5	0.88	20.20	2910	5.06	13.96	88.1	0.88	24.61	7.9	2.7	2	2.8
160M1-2	11	3550	5.66	17.01	90.2	0.90	29.59	2920	6.57	19.73	89.4	0.90	35.97	7.9	2.2	2.1	3
160M2-2	15	3550	7.28	22.94	90.2	0.91	40.35	2918	8.37	26.35	90.3	0.91	49.09	7.9	2.3	2.1	3
160L-2	18.5	3550	8.37	27.74	91	0.92	49.76	2922	9.64	31.93	90.9	0.92	60.46	8	2.4	2.1	2.9
180M-2	22	3555	11.86	34.09	91	0.89	59.10	2930	13.60	39.08	91.3	0.89	71.70	7.5	2.3	2	2.8
200L1-2	30	3555	16.92	46.66	91.7	0.88	80.58	2925	19.39	53.49	92	0.88	97.94	6.7	2.4	2	2.7
200L2-2	37	3560	18.60	55.84	92.4	0.90	99.25	2930	21.36	64.15	92.5	0.90	120.59	6.3	2.3	2	2.7
225M-2	45	3560	25.02	69.01	93	0.88	120.71	2930	28.81	79.45	92.9	0.88	146.66	6.9	2.3	2	2.8
250M-2	55	3565	30.58	84.35	93	0.88	147.32	2940	35.09	96.80	93.2	0.88	178.64	8	2.3	1.9	2.7
250M2-2	75	3565	37.21	111.75	93.6	0.90	200.90	2940	42.70	128.24	93.8	0.90	243.60	8	2.3	1.9	2.7
280S-2	75	3565	32.99	109.32	93.6	0.92	200.90	2940	37.86	125.45	93.8	0.92	243.60	8	2.2	1.9	2.7
280M-2	90	3564	39.21	129.93	94.5	0.92	241.14	2940	45.28	150.06	94.1	0.92	292.33	7.7	2.2	1.9	2.6
280M2-2	110	3555	50.99	160.55	94.5	0.91	295.48	2940	58.76	185.03	94.3	0.91	357.29	7.7	2.2	1.9	2.6
315S-2	110	3555	54.06	162.34	94.5	0.90	295.48	2940	62.30	187.08	94.3	0.90	357.29	7.7	2	1.8	2.3
315M-2	132	3560	61.19	192.66	94.5	0.91	354.08	2940	70.29	221.33	94.6	0.91	428.74	7.6	2	1.8	2.3
315L1-2	160	3560	78.22	234.88	95	0.90	429.18	2945	90.14	270.68	94.8	0.90	518.81	7.8	2	1.8	2.3
315L2-2	200	3565	102.89	295.66	95.4	0.89	535.72	2945	118.82	341.44	95	0.89	648.51	7.9	2	1.8	2.3
355M-2	250	3565	121.70	365.46	95.4	0.90	669.66	2945	140.54	422.05	95	0.90	810.64	7.8	2	1.8	2.3
355L-2	315	3568	162.04	465.66	95.4	0.89	843.06	2945	187.14	537.76	95	0.89	1021.40	7.8	2	1.8	2.3
802-4	0.75	1705	0.76	1.50	82.5	0.76	4.20	1420	0.90	1.79	79.6	0.76	5.04	5.4	2.3	2.1	2.9
90S-4	1.1	1710	1.02	2.11	84	0.78	6.14	1425	1.21	2.50	81.4	0.78	7.37	5.9	2.3	2.1	2.7
90L-4	1.5	1710	1.35	2.84	84	0.79	8.38	1420	1.57	3.31	82.8	0.79	10.09	6.4	2.4	2	2.7
100L1-4	2.2	1710	1.70	3.85	87.5	0.82	12.29	1430	2.03	4.59	84.3	0.82	14.69	6.6	2.4	2.1	2.9
100L2-4	3	1715	2.50	5.38	87.5	0.80	16.70	1430	2.94	6.33	85.5	0.80	20.03	6.9	2.4	2	2.8
112M-4	4	1715	3.45	7.26	87.5	0.79	22.27	1435	4.01	8.44	86.6	0.79	26.62	7.9	2.5	2	3
132S-4	5.5	1720	4.15	9.41	89.5	0.82	30.54	1430	4.87	11.04	87.7	0.82	36.73	7.1	2.3	2	2.8
132M-4	7.5	1720	5.44	12.67	89.5	0.83	41.64	1430	6.31	14.70	88.7	0.83	50.08	7.8	2.3	2	2.7
160M-4	11	1730	5.30	16.67	91	0.91	60.72	1440	6.17	19.43	89.8	0.91	72.95	7.9	2.5	2.1	2.8
160L-4	15	1730	6.79	22.49	91	0.92	82.80	1445	7.82	25.92	90.8	0.92	99.13	7.8	2.4	2.1	2.9
180M-4	18.5	1730	10.88	28.89	92.4	0.87	102.12	1445	12.68	33.66	91.2	0.87	122.26	7.8	2.4	2.1	3
180L-4	22	1740	11.68	33.58	92.4	0.89	120.74	1460	13.55	38.95	91.6	0.89	143.89	7.5	2.3	2	3

IEC Frame - NEMA EPACT Efficiency TEFC Motors Technical Data

Model	Power (KW)	60Hz						50Hz						I_{st}/I_n (Times)	T_{st}/T_n (Times)	T_{min}/T_n (Times)	T_{max}/T_n (Times)
		Full Load Speed (r/min)	I_{nl} 460V (A)	I_n 460V (A)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	Full Load Speed (r/min)	I_{nl} 400V (A)	I_n 400V (A)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)				
225S-4	37	1745	28.96	62.42	93	0.80	202.48	1470	33.42	72.02	92.7	0.80	240.36	6.7	2.4	2	2.7
225M-4	45	1745	35.00	75.43	93.6	0.80	246.26	1480	40.47	87.21	93.1	0.80	290.35	7	2.3	2	2.8
250M-4	55	1750	30.22	83.37	94.1	0.88	300.12	1480	34.98	96.49	93.5	0.88	354.87	7.4	2.4	1.9	2.7
250M2-4	75	1755	36.86	110.68	94.5	0.90	408.09	1480	42.61	127.96	94	0.90	483.92	7.4	2.4	1.9	2.7
280S-4	75	1760	34.77	109.47	94.5	0.91	406.93	1480	40.19	126.56	94	0.91	483.92	7.5	2.2	1.9	2.6
280M-4	90	1760	39.21	129.93	94.5	0.92	488.32	1480	45.23	149.90	94.2	0.92	580.70	7.7	2.2	1.9	2.6
315S-4	110	1780	53.77	161.48	95	0.90	590.13	1480	62.17	186.69	94.5	0.90	709.75	7.8	2	1.8	2.3
315M-4	132	1780	60.87	191.65	95	0.91	708.15	1480	70.22	221.09	94.7	0.91	851.69	7.8	2	1.8	2.3
315L1-4	160	1781	73.78	232.30	95	0.91	857.88	1480	84.93	267.43	94.9	0.91	1032.36	7.9	2	1.8	2.3
315L2-4	200	1781	97.77	293.60	95	0.90	1072.35	1480	112.32	337.29	95.1	0.90	1290.45	7.7	2	1.8	2.3
355M-4	250	1782	128.61	369.57	95.4	0.89	1339.69	1480	148.36	426.35	95.1	0.89	1613.06	7.9	2	1.8	2.3
355L-4	315	1782	153.34	460.48	95.4	0.90	1688.01	1480	176.90	531.23	95.1	0.90	2032.45	7.8	2	1.8	2.3
90L-6	1.1	1120	0.94	2.02	85.5	0.80	9.38	935	1.18	2.54	78.1	0.80	11.23	6	2.3	2.1	2.6
100L-6	1.5	1120	1.17	2.65	86.5	0.82	12.79	940	1.46	3.31	79.8	0.82	15.24	5.8	2.3	2.1	2.7
112M-6	2.2	1130	1.83	3.94	87.5	0.80	18.59	940	2.25	4.85	81.8	0.80	22.35	6.4	2.3	2.1	2.9
132S-6	3	1130	2.22	5.18	87.5	0.83	25.35	940	2.69	6.26	83.3	0.83	30.48	6.3	2.4	2.2	2.8
132M1-6	4	1140	2.85	6.83	87.5	0.84	33.51	945	3.39	8.12	84.6	0.84	40.42	6.2	2.5	2	2.8
132M2-6	5.5	1140	4.15	9.41	89.5	0.82	46.07	945	4.97	11.26	86	0.82	55.58	6.8	2.3	1.9	2.8
160M-6	7.5	1140	5.22	12.52	89.5	0.84	62.82	955	6.16	14.78	87.2	0.84	74.99	7	2.4	1.9	2.7
160L-6	11	1145	7.27	18.01	90.2	0.85	91.74	960	8.50	21.06	88.7	0.85	109.42	7.3	2.5	2	2.8
180L-6	15	1145	10.79	25.15	90.2	0.83	125.10	960	12.48	29.08	89.7	0.83	149.21	7.8	2.3	2.1	2.9
200L1-6	18.5	1150	12.03	29.79	91.7	0.85	153.62	965	14.03	34.75	90.4	0.85	183.07	7.8	2.4	2.1	3.2
200L2-6	22	1150	13.67	35.01	91.7	0.86	182.68	965	15.86	40.62	90.9	0.86	217.70	7.9	2.3	1.9	3.1
225M-6	30	1150	19.23	47.63	93	0.85	249.11	975	22.43	55.56	91.7	0.85	293.82	7.9	2.2	1.9	2.7
250M-6	37	1150	25.82	60.16	93	0.83	307.24	975	29.95	69.79	92.2	0.83	362.38	7.5	2.3	2.1	2.7
250M2-6	45	1155	28.66	70.99	93.6	0.85	372.05	975	33.28	82.43	92.7	0.85	440.74	7.5	2.3	2.1	2.7
280S-6	45	1160	27.40	70.17	93.6	0.86	370.45	980	31.81	81.48	92.7	0.86	438.49	7.2	2.3	2	2.8
280M1-6	55	1160	33.48	85.76	93.6	0.86	452.77	980	38.71	99.15	93.1	0.86	535.93	7.7	2.2	1.9	2.7
280M2-6	75	1165	41.22	113.68	94.1	0.88	614.76	980	47.60	131.29	93.7	0.88	730.81	7.7	2.2	1.9	2.7
315S-6	75	1174	39.11	112.40	94.1	0.89	610.05	980	45.17	129.81	93.7	0.89	730.81	7.9	2.1	1.9	2.5
315M-6	90	1172	44.42	133.38	94.1	0.90	733.31	980	51.13	153.56	94	0.90	876.98	8	2	1.8	2.3
315L1-6	110	1176	53.77	161.48	95	0.90	893.22	980	62.30	187.08	94.3	0.90	1071.86	7.7	2	1.8	2.3
315L2-6	132	1178	68.19	195.95	95	0.89	1070.04	980	78.75	226.30	94.6	0.89	1286.23	.8	2	1.8	2.3
355M1-6	160	1180	73.78	232.30	95	0.91	1294.82	980	85.02	267.71	94.8	0.91	1559.07	7.6	2	1.8	2.3
355M2-6	200	1179	97.77	293.60	95	0.90	1619.90	980	112.43	337.64	95	0.90	1948.84	7.8	2	1.8	2.3
355L-6	250	1180	129.15	371.13	95	0.89	2023.16	980	148.52	426.79	95	0.89	2436.05	7.8	2	1.8	2.3

IEC Frame - NEMA Premium Efficiency TEFC Motors Technical Data

Model	Power (KW)	60Hz						50Hz						I_{st}/I_n (Times)	T_{st}/T_n (Times)	T_{min}/T_n (Times)	T_{max}/T_n (Times)
		Full Load Speed (r/min)	I_{nl} 460V (A)	I_n 460V (A)	Eff. 100% FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	Full Load Speed (r/min)	I_{nl} 400V (A)	I_n 400V (A)	Eff. 100% FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)				
801-2	0.75	3495	0.84	1.63	77	0.75	2.05	2848	0.92	1.79	80.7	0.75	2.51	6	2.7	2.1	2.8
802-2	1.1	3495	0.99	2.08	84	0.79	3.01	2846	1.15	2.43	82.7	0.79	3.69	6.7	2.7	2.1	2.9
90S-2	1.5	3510	1.09	2.62	85.5	0.84	4.08	2852	1.28	3.06	84.2	0.84	5.02	6.1	2.3	2	2.7
90L-2	2.2	3525	1.58	3.80	86.5	0.84	5.96	2845	1.83	4.40	85.9	0.84	7.38	7	2.6	2.1	2.7
100L-2	3	3540	1.66	4.78	88.5	0.89	8.09	2851	1.94	5.59	87.1	0.89	10.05	7.6	2.5	2	2.8
112M-2	4	3540	2.22	6.37	88.5	0.89	10.79	2910	2.56	7.36	88.1	0.89	13.13	7.8	2.5	2	2.7
132S1-2	5.5	3540	3.02	8.67	89.5	0.89	14.84	2905	3.48	10.00	89.2	0.89	18.08	7.8	2.4	2	2.9
132S2-2	7.5	3545	4.30	11.86	90.2	0.88	20.20	2910	4.95	13.65	90.1	0.88	24.61	7.9	2.7	2	2.8
160M1-2	11	3550	5.61	16.86	91	0.90	29.59	2920	6.44	19.34	91.2	0.90	35.97	7.9	2.2	2.1	3
160M2-2	15	3550	7.22	22.74	91	0.91	40.35	2918	8.22	25.89	91.9	0.91	49.09	7.9	2.3	2.1	3
160L-2	18.5	3550	8.31	27.52	91.7	0.92	49.76	2922	9.48	31.41	92.4	0.92	60.46	8	2.4	2.1	2.9
180M-2	22	3555	11.77	33.83	91.7	0.89	59.10	2930	13.39	38.49	92.7	0.89	71.70	7.5	2.3	2	2.8
200L1-2	30	3555	16.79	46.31	92.4	0.88	80.58	2925	19.12	52.74	93.3	0.88	97.94	6.7	2.4	2	2.7
200L2-2	37	3560	18.48	55.48	93	0.90	99.25	2930	21.09	63.33	93.7	0.90	120.59	6.3	2.3	2	2.7
225M-2	45	3560	24.86	68.57	93.6	0.88	120.71	2930	28.47	78.52	94	0.88	146.66	6.9	2.3	2	2.8
250M-2	55	3565	30.39	83.81	93.6	0.88	147.32	2940	34.68	95.67	94.3	0.88	178.64	8	2.3	1.9	2.7
250M2-2	75	3565	37.01	111.15	94.1	0.90	200.90	2940	42.30	127.02	94.7	0.90	243.60	8	2.3	1.9	2.7
280S-2	75	3565	32.81	108.74	94.1	0.92	200.90	2940	37.50	124.26	94.7	0.92	243.60	8	2.2	1.9	2.7
280M-2	90	3564	39.00	129.25	95	0.92	241.14	2940	44.85	148.64	95	0.92	292.33	7.7	2.2	1.9	2.6
280M2-2	110	3555	50.72	159.71	95	0.91	295.48	2940	58.21	183.28	95.2	0.91	357.29	7.7	2.2	1.9	2.6
315S-2	110	3555	53.77	161.48	95	0.90	295.48	2940	61.71	185.31	95.2	0.90	357.29	7.7	2	1.8	2.3
315M-2	132	3560	60.87	191.65	95	0.91	354.08	2940	69.70	219.47	95.4	0.91	428.74	7.6	2	1.8	2.3
315L1-2	160	3560	77.89	233.90	95.4	0.90	429.18	2945	89.38	268.42	95.6	0.90	518.81	7.8	2	1.8	2.3
315L2-2	200	3565	102.46	294.42	95.8	0.89	535.72	2945	117.82	338.58	95.8	0.89	648.51	7.9	2	1.8	2.3
355M-2	250	3565	121.19	363.94	95.8	0.90	669.66	2945	139.37	418.53	95.8	0.90	810.64	7.8	2	1.8	2.3
355L-2	315	3568	161.37	463.71	95.8	0.89	843.06	2945	185.57	533.27	95.8	0.89	1021.40	7.8	2	1.8	2.3
802-4	0.75	1705	0.73	1.45	85.5	0.76	4.20	1420	0.87	1.73	82.5	0.76	5.04	5.4	2.3	2.1	2.9
90S-4	1.1	1710	0.99	2.05	86.5	0.78	6.14	1425	1.17	2.42	84.1	0.78	7.37	5.9	2.3	2.1	2.7
90L-4	1.5	1710	1.31	2.76	86.5	0.79	8.38	1420	1.53	3.21	85.3	0.79	10.09	6.4	2.4	2	2.7
100L1-4	2.2	1710	1.66	3.76	89.5	0.82	12.29	1430	1.97	4.47	86.7	0.82	14.69	6.6	2.4	2.1	2.9
100L2-4	3	1715	2.44	5.26	89.5	0.80	16.70	1430	2.86	6.17	87.7	0.80	20.03	6.9	2.4	2	2.8
112M-4	4	1715	3.37	7.10	89.5	0.79	22.27	1435	3.92	8.25	88.6	0.79	26.62	7.9	2.5	2	3
132S-4	5.5	1720	4.05	9.18	91.7	0.82	30.54	1430	4.77	10.81	89.6	0.82	36.73	7.1	2.3	2	2.8
132M-4	7.5	1720	5.31	12.37	91.7	0.83	41.64	1430	6.19	14.43	90.4	0.83	50.08	7.8	2.3	2	2.7
160M-4	11	1730	5.21	16.42	92.4	0.91	60.72	1440	6.06	19.09	91.4	0.91	72.95	7.9	2.5	2.1	2.8
160L-4	15	1730	6.64	22.00	93	0.92	82.80	1445	7.71	25.55	92.1	0.92	99.13	7.8	2.4	2.1	2.9
180M-4	18.5	1730	10.74	28.51	93.6	0.87	102.12	1445	12.49	33.15	92.6	0.87	122.26	7.8	2.4	2.1	3
180L-4	22	1740	11.54	33.15	93.6	0.89	120.74	1460	13.35	38.37	93	0.89	143.89	7.5	2.3	2	3
200L-4	30	1740	16.49	45.47	94.1	0.88	164.64	1460	19.06	52.57	93.6	0.88	196.22	7.9	2.4	2	2.7
225S-4	37	1745	28.50	61.43	94.5	0.80	202.48	1470	32.99	71.09	93.9	0.80	240.36	6.7	2.4	2	2.7
225M-4	45	1745	34.48	74.32	95	0.80	246.26	1480	39.99	86.19	94.2	0.80	290.35	7	2.3	2	2.8
250M-4	55	1750	29.81	82.23	95.4	0.88	300.12	1480	34.57	95.36	94.6	0.88	354.87	7.4	2.4	1.9	2.7
250M2-4	75	1755	36.51	109.64	95.4	0.90	408.09	1480	42.16	126.62	95	0.90	483.92	7.4	2.4	1.9	2.7
280S-4	75	1760	34.44	108.43	95.4	0.91	406.93	1480	39.77	125.22	95	0.91	483.92	7.5	2.2	1.9	2.6
280M-4	90	1760	38.84	128.71	95.4	0.92	488.32	1480	44.76	148.32	95.2	0.92	580.70	7.7	2.2	1.9	2.6
315S-4	110	1780	53.32	160.13	95.8	0.90	590.13	1480	61.58	184.92	95.4	0.90	709.75	7.8	2	1.8	2.3
315M-4	132	1780	60.36	190.05	95.8	0.91	708.15	1480	69.56	219.01	95.6	0.91	851.69	7.8	2	1.8	2.3
315L1-4	160	1781	72.86	229.40	96.2	0.91	857.88	1480	84.13	264.91	95.8	0.91	1032.36	7.9	2	1.8	2.3
315L2-4	200	1781	96.55	289.94	96.2	0.90	1072.35	1480	111.26	334.12	96	0.90	1290.45	7.7	2	1.8	2.3
355M-4	250	1782	127.54	366.50	96.2	0.89	1339.69	1480	146.97	422.35	96	0.89	1613.06	7.9	2	1.8	2.3
355L-4	315	1782	152.07	456.65	96.2	0.90	1688.01	1480	175.24	526.25	96	0.90	2032.45	7.8	2	1.8	2.3

IEC Frame - NEMA Premium Efficiency TEFC Motors Technical Data

Model	Power (KW)	60Hz						50Hz						I_{st}/I_n (Times)	T_{st}/T_n (Times)	T_{min}/T_n (Times)	T_{max}/T_n (Times)
		Full Load Speed (r/min)	I_{nl} 460V (A)	I_n 460V (A)	Eff. 100% FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	Full Load Speed (r/min)	I_{nl} 400V (A)	I_n 400V (A)	Eff. 100% FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)				
90L-6	1.1	1120	0.92	1.97	87.5	0.80	9.38	935	1.14	2.45	81	0.80	11.23	6	2.3	2.1	2.6
100L-6	1.5	1120	1.14	2.59	88.5	0.82	12.79	940	1.41	3.20	82.5	0.82	15.24	5.8	2.3	2.1	2.7
112M-6	2.2	1130	1.79	3.86	89.5	0.80	18.59	940	2.18	4.71	84.3	0.80	22.35	6.4	2.3	2.1	2.9
132S-6	3	1130	2.18	5.07	89.5	0.83	25.35	940	2.62	6.09	85.6	0.83	30.48	6.3	2.4	2.2	2.8
132M1-6	4	1140	2.78	6.68	89.5	0.84	33.51	945	3.30	7.92	86.8	0.84	40.42	6.2	2.5	2	2.8
132M2-6	5.5	1140	4.08	9.25	91	0.82	46.07	945	4.85	11.00	88	0.82	55.58	6.8	2.3	1.9	2.8
160M-6	7.5	1140	5.13	12.32	91	0.84	62.82	955	6.03	14.46	89.1	0.84	74.99	7	2.4	1.9	2.7
160L-6	11	1145	7.15	17.71	91.7	0.85	91.74	960	8.35	20.69	90.3	0.85	109.42	7.3	2.5	2	2.8
180L-6	15	1145	10.61	24.74	91.7	0.83	125.10	960	12.27	28.60	91.2	0.83	149.21	7.8	2.3	2.1	2.9
200L1-6	18.5	1150	11.86	29.37	93	0.85	153.62	965	13.83	34.26	91.7	0.85	183.07	7.8	2.4	2.1	3.2
200L2-6	22	1150	13.48	34.53	93	0.86	182.68	965	15.64	40.05	92.2	0.86	217.70	7.9	2.3	1.9	3.1
225M-6	30	1150	19.01	47.08	94.1	0.85	249.11	975	22.14	54.84	92.9	0.85	293.82	7.9	2.2	1.9	2.7
250M-6	37	1150	25.52	59.46	94.1	0.83	307.24	975	29.59	68.97	93.3	0.83	362.38	7.5	2.3	2.1	2.7
250M2-6	45	1155	28.39	70.32	94.5	0.85	372.05	975	32.93	81.55	93.7	0.85	440.74	7.5	2.3	2.1	2.7
280S-6	45	1160	27.14	69.50	94.5	0.86	370.45	980	31.47	80.61	93.7	0.86	438.49	7.2	2.3	2	2.8
280M1-6	55	1160	33.17	84.94	94.5	0.86	452.77	980	38.30	98.10	94.1	0.86	535.93	7.7	2.2	1.9	2.7
280M2-6	75	1165	40.83	112.60	95	0.88	614.76	980	47.15	130.04	94.6	0.88	730.81	7.7	2.2	1.9	2.7
315S-6	75	1174	38.74	111.34	95	0.89	610.05	980	44.74	128.58	94.6	0.89	730.81	7.9	2.1	1.9	2.5
315M-6	90	1172	44.00	132.12	95	0.90	733.31	980	50.65	152.10	94.9	0.90	876.98	8	2	1.8	2.3
315L1-6	110	1176	53.32	160.13	95.8	0.90	893.22	980	61.77	185.51	95.1	0.90	1071.86	7.7	2	1.8	2.3
315L2-6	132	1178	67.62	194.32	95.8	0.89	1070.04	980	78.09	224.40	95.4	0.89	1286.23	.8	2	1.8	2.3
355M1-6	160	1180	73.16	230.36	95.8	0.91	1294.82	980	84.31	265.47	95.6	0.91	1559.07	7.6	2	1.8	2.3
355M2-6	200	1179	96.95	291.15	95.8	0.90	1619.90	980	111.50	334.82	95.8	0.90	1948.84	7.8	2	1.8	2.3
355L-6	250	1180	128.07	368.03	95.8	0.89	2023.16	980	147.28	423.23	95.8	0.89	2436.05	7.8	2	1.8	2.3

Welcome to TECHTOP