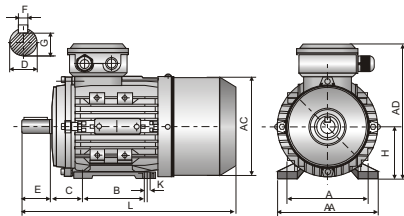
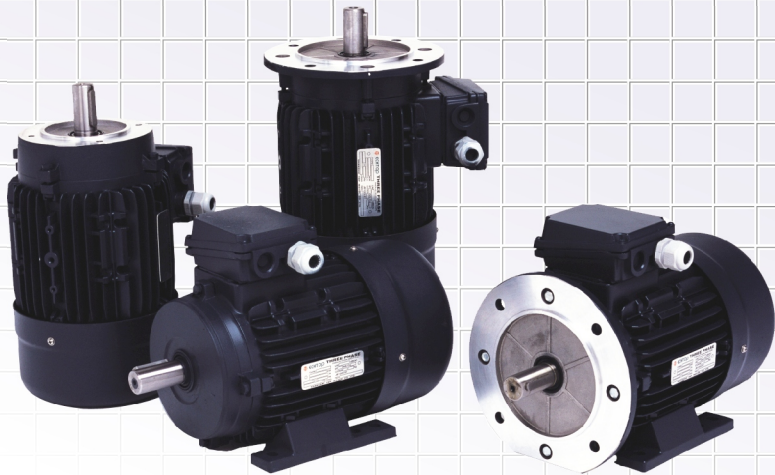
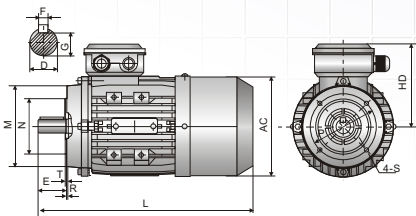


MSD

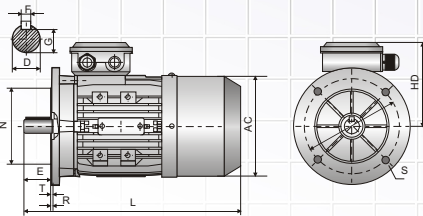
SERIES THREE-PHASE ASYNCHRONOUS DOUBLE-POLARITY MOTORS ALUMINUM HOUSING



IMB3



IMB14



IMB5

Overall & Installation Dimensions

B3

160M/L	160	254	210/254	108	Φ42	110	12	37	15X19	290	390	Φ320	640	652	705	795	2-M32X1.5	64	143	146	M16	35	42	14.2	2
132M/L	132	216	178	89	Φ38	80	10	33	12X16	252	325	Φ270	474/500	484/510	564/590	648/674	2-M25X1.5	38	112	119	M12	28	34	10.2	1.5
132S	132	216	140	89	Φ38	80	10	33	12X16	252	325	Φ270	436	468	553	636	2-M25X1.5	38	112	119	M12	28	34	10.2	1.5
112	112	190	140	70	Φ28	60	8	24	12X16	220	292	Φ230	395	410	483	455	2-M25X1.5	32	112	119	M10	22	28	8.5	1.5
100☆☆	100	160	140	63	Φ28	60	8	24	12X16	196	252	Φ205	368(386)	392(410)	474	445	1-M20X1.5	26	105	105	M10	22	28	8.5	1.5
90L1/L2	90	140	125	56	Φ24	50	8	20	10X13	175	235	Φ185	335/365	345/375	392	463	1-M20X1.5	30	105	105	M8	20	25	6.8	1
90S	90	140	100	56	Φ24	50	8	20	10X13	175	235	Φ185	310	320	367	448	1-M20X1.5	30	105	105	M8	20	25	6.8	1
80	80	125	100	50	Φ19	40	6	15.5	10X13	160	217	Φ165	290	300	353	390	1-M20X1.5	27	105	105	M6	16	22	5	1
71☆☆	71	112	90	45	Φ14	30	5	11	7X10	132	188/180	Φ145	240(254)	252(267)	307	345	1-M20X1.5	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	63	100	80	40	Φ11	23	4	8.5	7X10	120	173/165	Φ130	215	232	265	283	1-M16X1.5	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	56	90	71	36	Φ9	20	3	7.2	5.8X8.8	110	156/151	Φ120	195				1-M16X1.5	14/21	88/63	88/63	M3	8	12	2.5	0.5
FRAME	H	A	B	C	D	E	F	G	K	AA	AD	AC	L	Lcc [☆]	Lccl [☆]	Lca [☆]	KK	TBS	TBW	TBH	SS	XX	ZZ	CC	Y

B5 Overall & Installation Dimensions

160M/L	Φ300	Φ250	Φ350	5.0	Φ19	0							Φ42	110	12	37	2-M32X1.5	Φ320	230	640	652	705	795	64	143	146	M16	35	42	14.2	2
132M/L	Φ265	Φ230	Φ300	4.0	Φ15	0	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ38	80	10	33	2-M25X1.5	Φ270	193	474/500	484/510	564/590	648/674	38	112	119	M12	28	34	10.2	1.5
132S	Φ265	Φ230	Φ300	4.0	Φ15	0	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ38	80	10	33	2-M25X1.5	Φ270	193	436	468	553	636	38	112	119	M12	28	34	10.2	1.5
112	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ28	60	8	24	2-M25X1.5	Φ230	180	395	410	483	455	32	112	119	M10	22	28	8.5	1.5
100☆☆	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ28	60	8	24	1-M20X1.5	Φ205	152	368(386)	392(410)	474	445	26	105	105	M10	22	28	8.5	1.5
90L1/L2	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ130	Φ110	Φ160	3.5	Φ12	0	Φ24	50	8	20	1-M20X1.5	Φ185	145	335/365	345/375	392	463	30	105	105	M8	20	25	6.8	1
90S	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ130	Φ110	Φ160	3.5	Φ12	0	Φ24	50	8	20	1-M20X1.5	Φ185	145	310	320	367	448	30	105	105	M8	20	25	6.8	1
80	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ130	Φ110	Φ160	3.5	Φ10	0	Φ19	40	6	15.5	1-M20X1.5	Φ165	137	290	300	353	390	27	105	105	M6	16	22	5	1
71☆☆	Φ130	Φ110	Φ160	3.5	Φ10	0	Φ115	Φ95	Φ140	3.0	Φ10	0	Φ14	30	5	11	1-M20X1.5	Φ145	117/109	240(254)	252(267)	307	345	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	Φ115	Φ95	Φ140	3.0	Φ10	0							Φ11	23	4	8.5	1-M16X1.5	Φ130	110/102	215	232	265	283	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	Φ98	Φ80	Φ120	3.0	Φ7	0							Φ9	20	3	7.2	1-M16X1.5	Φ120	100/95	195				14/21	88/63	88/63	M3	8	12	2.5	0.5
FRAME	M	N	P	T	S	R	M	N	P	T	S	R	D	E	F	G	KK	AC	HD	L	L _{CC} [☆]	L _{CL} [☆]	L _{CA} [☆]	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
	B5						B5R																								

B14 Overall & Installation Dimensions

132M/L	Φ130	Φ165	Φ200	3.5	0	M10	Φ180	Φ215	Φ250	4.0	0	M12	Φ38	80	10	33	2-M32X1.5	Φ270	193	475/500	484/510	564/590	648/674	38	112	119	M12	28	34	10.2	1.5
132S	Φ130	Φ165	Φ200	3.5	0	M10	Φ180	Φ215	Φ250	4.0	0	M12	Φ38	80	10	33	2-M25X1.5	Φ270	193	436	468	553	636	38	112	119	M12	28	34	10.2	1.5
112	Φ110	Φ130	Φ160	3.5	0	M8	Φ130	Φ165	Φ200	3.5	0	M10	Φ28	60	8	24	2-M25X1.5	Φ230	180	395	410	483	455	32	112	119	M10	22	28	8.5	1.5
100☆☆	Φ110	Φ130	Φ160	3.5	0	M8	Φ130	Φ165	Φ200	3.5	0	M10	Φ28	60	8	24	1-M25X1.5	Φ205	152	368(386)	392(410)	474	445	26	105	105	M10	22	28	8.5	1.5
90L1/L2	Φ95	Φ115	Φ140	3.0	0	M8	Φ110	Φ130	Φ160	3.5	0	M8	Φ24	50	8	20	1-M20X1.5	Φ185	145	335/365	345/375	392	463	30	105	105	M8	20	25	6.8	1
90S	Φ95	Φ115	Φ140	3.0	0	M8	Φ110	Φ130	Φ160	3.5	0	M8	Φ24	50	8	20	1-M20X1.5	Φ185	145	310	320	367	448	30	105	105	M8	20	25	6.8	1
80	Φ80	Φ100	Φ120	3.0	0	M6	Φ110	Φ130	Φ160	3.5	0	M8	Φ19	40	6	15.5	1-M20X1.5	Φ165	137	290	300	353	390	27	105	105	M6	16	22	5	1
71☆☆	Φ70	Φ85	Φ105	2.5	0	M6	Φ95	Φ115	Φ140	3.0	0	M8	Φ14	30	5	11	1-M20X1.5	Φ145	117/109	240(254)	252(267)	307	345	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	Φ60	Φ75	Φ90	2.5	0	M5	Φ80	Φ100	Φ120	3.0	0	M6	Φ11	23	4	8.5	1-M16X1.5	Φ130	110/102	215	232	265	283	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	Φ50	Φ65	Φ80	2.5	0	M5							Φ9	20	3	7.2	1-M16X1.5	Φ120	100/95	195				14/21	88/63	88/63	M3	8	12	2.5	0.5
FRAME	N	M	P	T	R	S	N	M	P	T	R	S	D	E	F	G	KK	AC	HD	L	Lcc [®]	Lccl [®]	Lca [®]	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
	B14						B14B																								

☆☆:For Brake Motors
☆☆: This frame size has two housing sizes, the rated output is for normal “L” size, and increased output is for the bigger “L” size
(refer to the figures in the bracket “ () ”)

TECHNICAL DATA @400V

Model	Power (KW)		Speed (r/min)		Eff (%)		Cos ϕ		Current (A)		Rated Torque (N.m)		Ts/Tn (Times)		Is/In (Times)		Tmax/Tn (Times)	
	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P
MSD631-2/4	0.15	0.11	2680	1340	54	50	0.68	0.63	0.59	0.50	0.535	0.784	2	2	3.5	3.5	2	2
MSD632-2/4	0.22	0.15	2690	1340	58	53	0.72	0.65	0.76	0.63	0.78	1.07	2	2	3.5	3.5	2	2
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 @400V

Model	Power (KW)		Speed (r/min)		Eff (%)		Cos ϕ		Current (A)		Rated Torque (N.m)		Ts/Tn (Times)		Is/In (Times)		Tmax/Tn (Times)	
	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P
MSD712-4/8	0.18	0.11	1380	680	55	36	0.68	0.55	0.69	0.80	1.25	1.54	2	2	3.6	2.2	2	2
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 @400V

Model	Power (KW)		Speed (r/min)		Eff (%)		Cos ϕ		Current (A)		Rated Torque (N.m)		Ts/Tn (Times)		Is/In (Times)		Tmax/Tn (Times)	
	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P
MSD712-4/6	0.22	0.15	1400	910	55	50	0.71	0.68	0.81	0.64	1.5	1.57	1.8	1.9	3.5	3.2	1.9	2
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 @400V

Model	Power (KW)		Speed (r/min)		Eff (%)		Cos ϕ		Current (A)		Rated Torque (N.m)		Ts/Tn (Times)		Is/In (Times)		Tmax/Tn (Times)	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
MSD712-6/8	0.11	0.075	880	670	44	35	0.69	0.68	0.52	0.45	1.19	1.07	1.3	1.3	3	2.5	1.5	1.5
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