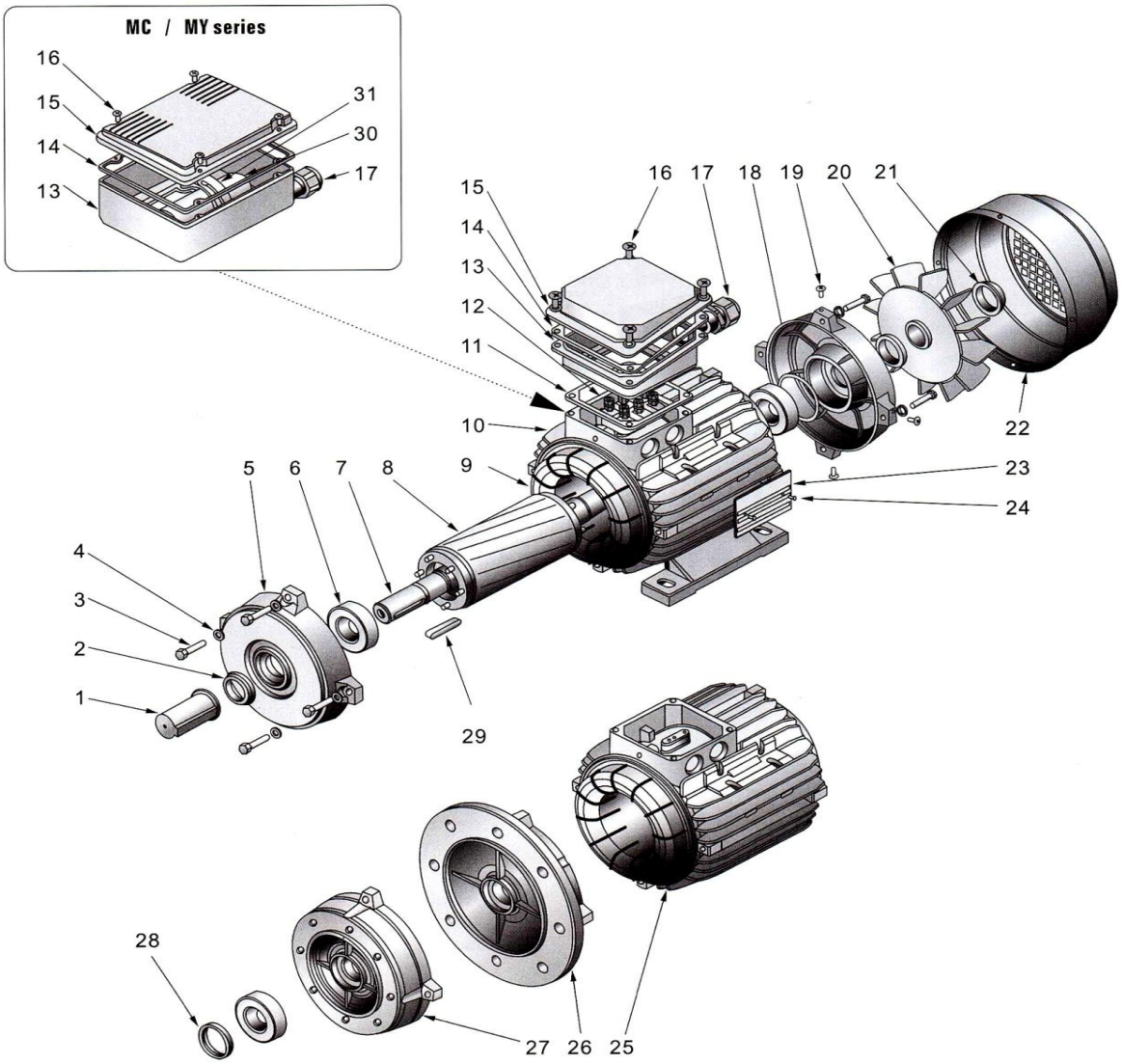
DM
Motor spare part list/drawing

Suntech

Motor spare part list/drawing



01. Shaft cover	**09.** Wound stator	**17.** Cable inlet bush	**25.** Wound stator
02. Sealing ring	**10.** Motor casing B3-B5	**18.** Shield	**26.** B5 flange
03. Motor clamping screws	**11.** IP 55 gasket	**19.** Screw for fan cover tightening	**27.** B14 flange
04. Spring ring	**12.** Terminal block box-base	**20.** PVC fan	**28.** Sealing ring
05. Shield	**13.** Terminal block box-base	**21.** Ring for fan tightening	**29.** Shaft key
06. Bearing	**14.** IP 65 gasket	**22.** Fan cover	**30.** Capacitor
07. Motor shaft	**15.** Teminal block box-cover	**23.** Motor identification plate	**31.** Capacitor clamp vers. MM
08. Rotor	**16.** Tightening block box-cover tightening screws	**24.** Identification plate tightening screws	

MS

Three-Phase Asynchronous Motors

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.

IE1

OPERATING CONDITIONS

Ambient temperature: -15 ℃ < θ <40 ℃
Altitude: Not exceeding 1000meters
Rated voltage: ± 5%

Suntech

Technical data (at 50Hz)

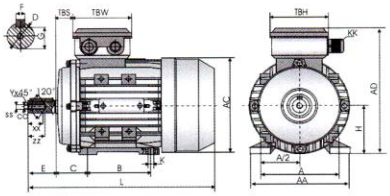
Model	Rated Output		Rated Current A									Rated Speed	Eff η	Power factor	Rated Torque	Ts/Tn	Tmax/Tn	Tmin/Tn	Is/In	Noise dB	W.t.
	kW	Hp	220V	380V	660V	230V	400V	690V	240V	415V	720V	rpm	%	COSΦ	Nm	Times	Times	Times	Times	A	Kg
3000rpm,2-pole,50Hz																					
MS561-2	0.09	0.12	0.64	0.37	0.21	0.61	0.35	0.20	0.58	0.34	0.19	2670	53	0.65	0.32	2.2	2.3	1.6	6	58	2.6
MS562-2	0.12	0.16	0.74	0.43	0.25	0.70	0.40	0.23	0.67	0.39	0.22	2730	61	0.69	0.42	2.2	2.3	1.6	6	58	3.0
MS631-2	0.18	0.25	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	0.63	2.2	2.4	1.6	6	61	4
MS632-2	0.25	0.33	1.29	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	2710	65	0.78	0.88	2.2	2.4	1.6	6	61	4.2
MS711-2	0.37	0.5	1.76	1.02	0.59	1.67	0.97	0.56	1.61	0.93	0.54	2730	70	0.79	1.29	2.2	2.4	1.6	6	64	5.2
MS712-2	0.55	0.75	2.57	1.49	0.86	2.45	1.42	0.82	2.36	1.36	0.79	2760	71	0.79	1.90	2.2	2.4	1.6	6	64	6.0
MS801-2	0.75	1	3.21	1.86	1.07	3.06	1.77	1.02	2.94	1.70	0.98	2770	73	0.84	2.58	2.2	2.4	1.5	6	67	8.7
MS802-2	1.1	1.5	4.56	2.64	1.52	4.35	2.51	1.45	4.18	2.42	1.39	2770	76.2	0.83	3.79	2.2	2.4	1.5	6	67	10.0
MS90S-2	1.5	2	5.97	3.46	1.99	5.76	3.28	1.90	5.47	3.16	1.82	2840	78.5	0.84	5.0	2.2	2.4	1.5	6	72	12
MS90L1-2	2.2	3	8.39	4.85	2.80	8.0	4.61	2.66	7.69	4.45	2.56	2840	81	0.85	7.4	2.2	2.4	1.4	6	72	14
MS100L1-2	3	4	10.96	6.34	3.65	10.44	6.03	3.48	10.04	5.81	3.35	2840	82.6	0.87	10.0	2.2	2.3	1.4	7	76	20
MS112M-2	4	5.5	14.33	8.30	4.78	13.65	7.88	4.55	13.14	7.60	4.38	2880	84.2	0.87	13.3	2.2	2.3	1.4	7.5	77	26
MS132S1-2	5.5	7.5	19.14	11.08	6.38	18.23	10.53	6.08	17.54	10.15	5.85	2900	85.7	0.88	18.2	2	2.2	1.2	7.5	80	38.5
MS132S2-2	7.5	10	25.71	14.88	8.57	24.49	14.14	8.16	23.57	13.63	7.86	2920	87	0.88	24.5	2	2.2	1.2	7.5	80	41.3
MS160M1-2	11	15	36.28	21.01	12.09	34.57	19.96	11.52	33.26	19.23	11.09	2940	88.4	0.9	35.7	2	2.2	1.2	7.5	86	76
MS160M2-2	15	20	48.39	28.01	16.13	46.09	26.61	15.36	44.35	25.62	14.78	2940	89.4	0.91	48.7	2	2.2	1.2	7.5	86	84
MS160L-2	18.5	25	59.28	34.32	19.76	56.47	32.6	18.82	54.34	31.43	18.11	2940	90	0.91	60.0	2	2.2	1.1	7.5	86	92
1500rpm,4-pole,50Hz																					
MS561-4	0.06	0.08	0.55	0.32	0.18	0.52	0.30	0.17	0.50	0.29	0.17	1320	48.5	0.59	0.43	2.3	2.4	1.7	6	50	2.9
MS562-4	0.09	0.12	0.77	0.45	0.26	0.74	0.43	0.25	0.71	0.41	0.24	1320	50	0.61	0.65	2.3	2.4	1.7	6	50	3.2
MS631-4	0.12	0.16	0.86	0.50	0.29	0.82	0.47	0.27	0.79	0.46	0.26	1350	52	0.64	0.85	2.2	2.4	1.7	6	52	3.7
MS632-4	0.18	0.25	1.23	0.71	0.41	1.17	0.68	0.39	1.13	0.65	0.38	1350	57	0.65	1.27	2.2	2.4	1.7	6	52	4.2
MS711-4	0.25	0.33	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.81	0.46	1350	60	0.72	1.77	2.2	2.4	1.7	6	55	5.0
MS712-4	0.37	0.5	2.02	1.17	0.67	1.92	1.11	0.64	1.85	1.07	0.62	1370	65	0.74	2.58	2.2	2.4	1.7	6	55	5.8
MS801-4	0.55	0.75	2.87	1.66	0.96	2.74	1.58	0.91	2.63	1.52	0.88	1370	67	0.75	3.83	2.2	2.4	1.7	6	58	8.1
MS802-4	0.75	1	3.50	2.03	1.17	3.34	1.93	1.11	3.21	1.86	1.07	1380	72	0.78	5.19	2.2	2.4	1.5	6	58	9.1
MS90S-4	1.1	1.5	4.80	2.78	1.60	4.57	2.64	1.52	4.40	2.54	1.47	1400	76.2	0.79	7.5	2.2	2.4	1.5	6	61	11
MS90L-4	1.5	2	6.27	3.63	2.09	5.97	3.45	1.99	5.75	3.32	1.92	1400	78.5	0.8	10.2	2.2	2.4	1.5	6	61	14.4
MS100L1-4	2.2	3	8.80	5.09	2.93	8.38	4.84	2.79	8.07	4.66	2.69	1420	81	0.81	14.8	2.2	2.3	1.5	7	64	19.2
MS100L2-4	3	4	11.77	6.81	3.92	11.21	6.47	3.74	10.79	6.24	3.60	1420	82.6	0.81	20.2	2.2	2.3	1.5	7	64	22.5
MS112M-4	4	5.5	15.02	8.70	5.01	14.31	8.26	4.77	13.77	7.96	4.59	1430	84.2	0.83	26.7	2.2	2.2	1.5	7	65	29
MS132S-4	5.5	7.5	20.05	11.61	6.68	19.1	11.03	6.37	18.38	10.63	6.13	1450	85.7	0.84	36.2	2.2	2.2	1.4	7	71	39
MS132M-4	7.5	10	26.62	15.41	8.87	25.35	14.64	8.45	24.40	14.11	8.13	1450	87	0.85	49.4	2.2	2.2	1.4	7	71	48.6
MS160M-4	11	15	37.54	21.73	12.51	35.76	20.64	11.92	34.41	19.90	11.47	1460	88.4	0.87	71.9	2.2	2.2	1.4	7	75	73
MS160L-4	15	20	51.18	29.63	17.06	48.76	28.15	16.25	46.92	27.13	15.64	1460	88.4	0.87	98.1	2.2	2.2	1.4	7.5	75	88.5
1000rpm,6-pole,50Hz																					
MS631-6	0.09	0.12	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	840	42	0.61	1.02	2	2	1.5	3.5	50	4.2
MS632-6	0.12	0.16	1.129	0.65	0.38	1.08	0.62	0.36	1.03	0.60	0.34	850	45	0.62	1.34	2	2	1.5	3.5	50	4.5
MS711-6	0.18	0.25	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	880	56	0.66	1.95	1.6	1.7	1.5	4	52	5.6
MS712-6	0.25	0.33	1.6	0.92	0.53	1.51	0.87	0.50	1.46	0.84	0.49	900	59	0.7	2.65	2.1	2.2	1.5	4	52	6.0
MS801-6	0.37	0.5	2.24	1.30	0.75	2.13	1.23	0.71	2.05	1.19	0.68	900	62	0.7	3.93	1.9	1.9	1.5	4	56	8.1
MS802-6	0.55	0.75	2.99	1.73	1.00	2.85	1.65	0.95	2.74	1.59	0.91	900	67	0.72	5.83	2	2.3	1.5	4	56	9.6
MS90S-6	0.75	1	3.96	2.29	1.32	3.77	2.18	1.26	3.63	2.10	1.21	920	69	0.72	7.78	2.2	2.2	1.5	5.5	59	11.3
MS90L-6	1.1	1.5	5.49	3.18	1.83	5.23	3.02	1.74	5.03	2.91	1.68	925	72	0.73	11.35	2.2	2.2	1.3	5.5	59	14.4
MS100L-6	1.5	2	7.00	4.05	2.33	6.67	3.85	2.22	6.42	3.71	2.14	945	74	0.76	15.15	2.2	2.2	1.3	6	61	18.8
MS112M-6	2.2	3	9.74	5.64	3.25	9.28	5.36	3.09	8.93	5.16	2.98	955	78	0.76	22.0	2.2	2.2	1.3	6	64	25
MS132S-6	3	4	13.11	7.59	4.37	12.49	7.21	4.16	12.02	6.95	4.01	960	79	0.76	29.8	2	2	1.3	6.5	64	35
MS132M1-6	4	5.5	17.16	9.93	5.72	16.35	9.44	5.45	15.73	9.10	5.24	960	80.5	0.76	39.8	2	2	1.3	6.5	68	45
MS132M2-6	5.5	7.5	22.58	13.08	7.53	21.51	12.42	7.17	20.70	11.97	6.90	960	83	0.77	54.7	2	2	1.3	6.5	68	50.7
MS160M-6	7.5	10	28.61	16.56	9.54	27.25	15.73	9.08	26.22	15.17	8.74	960	86	0.8	74.6	2	2.2	1.3	6.5	68	70
MS160L-6	11	15	41.76	24.18	13.92	39.78	22.97	13.26	38.28	22.14	12.76	960	87.5	0.79	09.4	2	2.2	1.3	6.5	73	87

MS
Three-Phase Asynchronous Motors

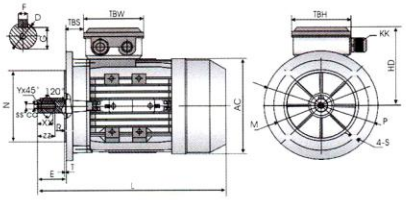
Suntech

Overall & Installation Dimensions

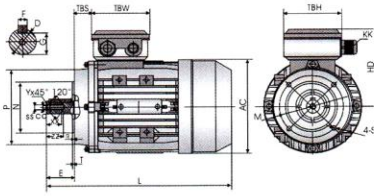
IMB3



IMB5



IMB14



B3 Overall & Installation Dimensions

FRAME	H	A	B	C	D	E	F	G	K	AA	AD	AC	L	Lcc☆	Lcc☆	Lca☆	KK	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
160M/L	160	254	210/254	108	42	110	12	37	15X19	290	390	320	640	652	705	795	2-M32X1.5	64	143	146	M16	35	42	14.2	2
132M/L	132	216	178	89	38	80	10	33	12X16	252	325	270	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	38	80	10	33	12X16	252	325	270	436	468	553	636	2-M25X1.5	38	112	119	M12	28	34	10.2	1.5
112	112	190	140	70	28	60	8	24	12X16	220	292	230	395	410	483	455	2-M25X1.5	32	112	119	M10	22	28	8.5	1.5
100☆☆	100	160	140	63	28	60	8	24	12X16	196	252	205	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	24	50	8	20	10X13	175	235	185	335/365	345/375	392	463	1-M20X1.5	30	105	105	M8	20	25	6.8	1
90S	90	140	100	56	24	50	8	20	10X13	175	235	185	310	320	367	448	1-M20X1.5	30	105	105	M8	20	25	6.8	1
80	80	125	100	50	19	40	6	15.5	10X13	160	217	165	290	300	353	390	1-M20X1.5	27	105	105	M6	16	22	5	1
71☆☆	71	112	90	45	14	30	5	11	7X10	132	188/180	145	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	11	23	4	8.5	7X10	120	173/165	130	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	9	20	3	7.2	5.8X8.8	110	156/151	120	195				1-M16X1.5	14/21	88/63	88/63	M3	8	12	2.5	0.5

B5 Overall & Installation Dimensions

FRAME	B5						B5R						D	E	F	G	KK	AC	HD	L	Lcc☆	Lcc☆	Lca☆	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
	M	N	P	T	S	R	M	N	P	T	S	R																			
160M/L	300	250	350	5.0	19	0							42	110	12	37	2-M32X1.5	320	230	640	652	705	795	64	143	146	M16	35	42	14.2	2
132M/L	265	230	300	4.0	15	0	215	180	250	4.0	15	0	38	80	10	33	2-M25X1.5	270	193	474/500	484/510	564/590	648/674	38	112	119	M12	28	34	10.2	1.5
132S	265	230	300	4.0	15	0	215	180	250	4.0	15	0	38	80	10	33	2-M25X1.5	270	193	436	468	553	636	38	112	119	M12	28	34	10.2	1.5
112	215	180	250	4.0	15	0	165	130	200	3.5	12	0	28	60	8	24	2-M25X1.5	230	180	395	410	483	455	32	112	119	M10	22	28	8.5	1.5
100☆☆	215	180	250	4.0	15	0	165	130	200	3.5	12	0	28	60	8	24	1-M20X1.5	205	152	368/386	392/410	474	445	26	105	105	M10	22	28	8.5	1.5
90L1/L2	165	130	200	3.5	12	0	130	110	160	3.5	12	0	24	50	8	20	1-M20X1.5	185	145	335/365	345/375	392	463	30	105	105	M8	20	25	6.8	1
90S	165	130	200	3.5	12	0	130	110	160	3.5	12	0	24	50	8	20	1-M20X1.5	185	145	310	320	367	448	30	105	105	M8	20	25	6.8	1
80	165	130	200	3.5	12	0	130	110	160	3.5	10	0	19	40	6	15.5	1-M20X1.5	165	137	290	300	353	390	27	105	105	M6	16	22	5	1
71☆☆	130	110	160	3.5	10	0	115	95	140	3.0	10	0	14	30	5	11	1-M20X1.5	145	117/109	240/254	252/267	307	345	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	115	95	140	3.0	10	0							11	23	4	8.5	1-M16X1.5	130	110/102	215	232	265	283	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	98	80	120	3.0	7	0							9	20	3	7.2	1-M16X1.5	120	100/95	195				14/21	88/73	88/73	M3	8	12	2.5	0.5

B14 Overall & Installation Dimensions

FRAME	B14						B14B						D	E	F	G	KK	AC	HD	L	Lcc☆	Lcc☆	Lca☆	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
	N	M	P	T	R	S	N	M	P	T	R	S																			
132M/L	130	165	200	3.5	0	M10	180	215	250	4.0	0	M12	38	80	10	33	2-M32X1.5	270	193	475/500	484/510	564/590	648/674	38	112	119	M12	28	34	10.2	1.5
132S	130	165	200	3.5	0	M10	180	215	250	4.0	0	M12	38	80	10	33	2-M25X1.5	270	193	436	468	553	636	38	112	119	M12	28	34	10.2	1.5
112	110	130	160	3.5	0	M8	130	165	200	3.5	0	M10	28	60	8	24	2-M25X1.5	230	180	395	410	483	455	32	112	119	M10	22	28	8.5	1.5
100☆☆	110	130	160	3.5	0	M8	130	165	200	3.5	0	M10	28	60	8	24	1-M25X1.5	205	152	368/386	392/410	474	445	26	105	105	M10	22	28	8.5	1.5
90L1/L2	95	115	140	3.0	0	M8	110	130	160	3.5	0	M8	24	50	8	20	1-M20X1.5	185	145	335/365	345/375	392	463	30	105	105	M8	20	25	6.8	1
90S	95	115	140	3.0	0	M8	110	130	160	3.5	0	M8	24	50	8	20	1-M20X1.5	185	145	310	320	367	448	30	105	105	M8	20	25	6.8	1
80	80	100	120	3.0	0	M6	110	130	160	3.5	0	M8	19	40	6	15.5	1-M20X1.5	165	137	290	300	353	390	27	105	105	M6	16	22	5	1
71☆☆	70	85	105	2.5	0	M6	95	115	140	3.0	0	M8	14	30	5	11	1-M20X1.5	145	117/109	240/254	252/267	307	345	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	60	75	90	2.5	0	M5	80	10	120	3.0		M6	11	23	4	8.5	1-M16X1.5	130	110/102	215	232	265	283	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	50	65	80	2.5	0	M5							9	20	3	7.2	1-M16X1.5	120	100/95	195				14/21	88/63	88/63	M3	8	12	2.5	0.5

☆: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 "()")

OPERATING CONDITIONS

Ambient temperature:	-15 ℃ < ▯ <40 ℃
Altitude:	Not exceeding 1000meters
Rated voltage:	380V or any voltage between 220~760V
Rated frequency:	50Hz、60Hz
Duty/Rating:	Continuous(S1)
Protection class:	IP44、IP54、IP55
Insulation class:	B、F、H
Cooling method:	IC0141
Connection:	Star-connection for up to 3kW,delta-connection for 4kW and above.

The motors of this series are made in conformity with IEC standards and incorporate many fine features.
Y series motors can be used in a multitude of applications in the commercial industrial building service and water treatment fields where superior service quality and reliability is demanded.

Y
Three-Phase Induction Motors
Suntech

Technical data (at 380V)

Model	Rated Output kW	Rated Output Hp	Rated Current A	Rated Speed rpm	Load75% Eff η %	Load75% Power factor COSΦ	Load50% Eff η %	Load50% Power factor COSΦ	Ts/Tn Times	Tmax/Tn Times	Ist/In Times
380V 50Hz Synchronous Speed 3000 r/min (2 Poles)											
Y801-2	0.75	1	1.81	2830	75	0.84	73.8	0.79	71.6	0.68	2.2	2.3	6.5
Y802-2	1.1	1.5	2.52	2830	77	0.86	76.5	0.81	74.0	0.71	2.2	2.3	7.0
Y90S-2	1.5	2	3.44	2840	78	0.85	77.5	0.80	76.0	0.71	2.2	2.3	7.0
Y90L-2	2.2	3	4.83	2840	80.5	0.86	79.7	0.82	77.6	0.73	2.2	2.3	7.0
Y100L-2	3.0	4	0.39	2870	82	0.87	81.3	0.83	79.3	0.74	2.2	2.3	7.0
Y112M-2	4.0	5.5	8.17	2890	85.5	0.88	84.8	0.83	82.8	0.73	2.2	2.3	7.0
Y132S1-2	5.5	7.5	11.1	2900	85.5	0.88	84.9	0.86	83.0	0.79	2.0	2.3	7.0
Y132S2-2	7.5	10	15.0	2900	86.2	0.88	85.5	0.86	83.0	0.79	2.0	2.3	7.0
Y160M1-2	11	15	21.8	2930	87.2	0.89	86.5	0.86	84.5	0.79	2.0	2.3	7.0
Y160M2-2	15	20	29.4	2930	88.2	0.89	87.6	0.85	86.0	0.80	2.0	2.3	7.0
Y160L-2	18.5	25	35.5	2930	89	0.89	88.5	0.86	87.2	0.81	2.0	2.2	7.0
Y180M-2	22	30	42.2	2940	89	0.89	88.1	0.87	86.7	0.81	2.0	2.2	7.0
Y200L1-2	30	40	56.9	2950	90	0.89	88.7	0.86	87.1	0.79	2.0	2.2	7.0
Y200L2-2	37	50	69.8	2950	90.5	0.89	89.7	0.86	87.5	0.80	2.0	2.2	7.0
Y225M-2	45	60	83.9	2970	91.5	0.89	90.4	0.87	88.3	0.82	2.0	2.2	7.0
Y250M-2	55	75	103	2970	91.5	0.89	90.6	0.86	88.6	0.82	2.0	2.2	7.0
Y280S-2	75	100	139	2970	92	0.89	91.0	0.86	89.0	0.82	2.0	2.2	7.0
Y280M-2	90	125	166	2970	92.5	0.89	91.4	0.86	89.4	0.84	2.0	2.2	7.0
Y315S-2	110	150	203	2980	92.5	0.89	91.4	0.86	89.7	0.84	1.8	2.2	6.8
Y315M-2	132	180	242	2980	93	0.89	91.8	0.87	90.1	0.84	1.8	2.2	6.8
Y315L1-2	160	220	292	2980	93.5	0.89	91.9	0.87	90.2	0.84	1.8	2.2	6.8
Y315L2-2	200	270	365	2980	93.5	0.89	92.3	0.87	90.6	0.84	1.8	2.2	6.8
Y355M-2	250	340	444	2980	94.5	0.90	93.3	0.88	92.5	0.85	1.6	2.2	7.0
Y355L-2	315	430	556	2980	95.0	0.90	93.9	0.88	92.8	0.85	1.6	2.2	7.1
380V 50Hz Synchronous Speed 1500 r/min (4 Poles)											
Y801-4	0.55	0.75	1.51	1390	73	0.76	71.5	0.66	68.5	0.52	2.4	2.3	6.0
Y802-4	0.75	1	2.01	1390	74.5	0.76	73	0.67	68.0	0.56	2.3	2.3	6.0
Y90S-4	1.1	1.5	2.75	1400	78	0.78	77	0.71	73.5	0.58	2.3	2.3	6.5
Y90L-4	1.5	2	3.65	1400	79	0.79	77.5	0.72	75.5	0.61	2.3	2.3	6.5
Y100L1-4	2.2	3	5.03	1430	81	0.82	80.3	0.74	78.2	0.61	2.2	2.3	7.0
Y100L2-4	3.0	4	6.82	1430	82.5	0.81	81.6	0.75	79.3	0.63	2.2	2.3	7.0
Y112M-4	4.0	5.5	8.77	1440	94.5	0.82	83.3	0.76	81.8	0.64	2.2	2.3	7.0
Y132S-4	5.5	7.5	11.6	1440	85.5	0.84	84.2	0.78	81.2	0.68	2.2	2.3	7.0
Y132M-4	7.5	10	15.4	1440	87	0.85	86.1	0.80	82.6	0.70	2.2	2.3	7.0
Y160M-4	11	15	22.6	1460	88	0.84	87.4	0.79	85.1	0.68	2.2	2.3	7.0
Y160L-4	15	20	30.3	1460	88.5	0.85	87.8	0.80	85.9	0.69	2.2	2.3	7.0
Y180M-4	18.5	25	35.9	1470	91	0.86	89.9	0.81	87.8	0.70	2.0	2.2	7.0
Y180L-4	22	30	42.5	1470	91.5	0.86	90.7	0.81	89.4	0.72	2.0	2.2	7.0
Y200L-4	30	40	56.8	1470	92.2	0.87	91.3	0.82	89.5	0.73	2.0	2.2	7.0
Y225S-4	37	50	70.4	1480	91.8	0.87	91.1	0.84	89.6	0.78	1.9	2.2	7.0
Y225M-4	45	60	84.2	1480	92.3	0.88	91.6	0.85	90.2	0.79	1.9	2.2	7.0
Y250M-4	55	75	103	1480	92.6	0.88	91.5	0.84	90.1	0.76	2.1	2.2	7.0
Y280S-4	75	100	140	1480	92.7	0.88	91.7	0.84	90.3	0.77	1.9	2.2	7.0
Y280M-4	90	125	164	1480	93.5	0.89	92.4	0.85	90.7	0.81	1.9	2.2	7.0
Y315S-4	110	150	201	1480	93.5	0.89	92.3	0.86	90.4	0.82	1.8	2.2	6.8
Y315M-4	132	180	240	1490	94	0.89	92.8	0.86	90.5	0.82	1.8	2.2	6.8
Y315L1-4	160	220	289	1490	94.5	0.89	93.2	0.86	91.2	0.82	1.8	2.2	6.8
Y315L2-4	200	270	361	1490	94.5	0.89	93.2	0.86	91.2	0.82	1.8	2.2	6.8
Y355M-4	250	340	459	1485	94.7	0.87	93.6	0.87	93.0	0.83	1.6	2.2	6.8
Y355L-4	315	430	576	1485	95.2	0.87	94.1	0.87	93.8	0.83	1.6	2.2	6.9
380V 50Hz Synchronous Speed 1000 r/min (6 Poles)											
Y90S-6	0.75	1	2.25	910	72.5	0.70	70.5	0.61	62.8	0.47	2.0	2.2	5.5
Y90L-6	1.1	1.5	3.16	910	73.5	0.72	72.0	0.61	67.7	0.47	2.0	2.2	5.5
Y100L-6	1.5	2	3.97	940	77.5	0.74	76.3	0.66	73.5	0.53	2.0	2.2	6.0
Y112M-6	2.2	3	5.61	940	80.5	0.74	79.2	0.66	77.3	0.53	2.0	2.2	6.0
Y132S-6	3.0	4	7.23	960	83	0.76	82.0	0.69	79.2	0.57	2.0	2.2	6.5
Y132M1-6	4.0	5.5	9.40	960	84	0.77	83.1	0.70	79.9	0.58	2.0	2.2	6.5
Y132M2-6	5.5	7.5	12.6	960	85.3	0.78	84.4	0.72	82.1	0.61	2.0	2.2	6.5
Y160M-6	7.5	10	17.0	970	86	0.78	85.2	0.72	83.6	0.63	1.8	2.0	6.5
Y160L-6	11	15	24.6	970	87	0.78	86.6	0.72	85.4	0.62	1.8	2.0	6.5
Y180L-6	15	20	31.4	970	89.5	0.81	88.5	0.75	86.8	0.63	1.8	2.0	6.5
Y200L1-6	18.5	25	37.7	970	89.8	0.83	88.7	0.77	87.5	0.69	1.7	2.0	6.5
Y200L2-6	22	30	44.6	970	90.2	0.83	89.3	0.75	87.7	0.65	1.8	2.0	6.5
Y225M-6	30	40	59.5	980	90.2	0.85	89.6	0.80	88.6	0.71	1.8	2.0	6.5
Y250M-6	37	50	72	980	90.8	0.86	90.4	0.81	89.3	0.73	1.8	2.0	6.5

Three-Phase Induction Motors

Suntech

Technical data (at 380V)

Model	Rated Output kW	Rated Output Hp	Rated Current A	Rated Speed rpm	Load75% Eff η %	Load75% Power factor COSΦ	Load50% Eff η %	Load50% Power factor COSΦ	Load50% Eff η %	Load50% Power factor COSΦ	Ts/Tn Times	Tmax/Tn Times	Ist/In Times
380V 50Hz Synchronous Speed 1000 r/min (6 Poles)													
Y280S-6	45	60	85.4	980	92	0.87	91.2	0.82	89.7	0.75	1.6	2.0	6.5
Y280M-6	55	75	104	980	92	0.87	91.5	0.81	90.2	0.74	1.6	2.0	6.5
Y315S-6	75	100	141	990	92.8	0.87	92.3	0.82	90.8	0.74	1.6	2.0	6.5
Y315M-6	90	125	169	990	93.2	0.87	92.8	0.83	91.2	0.76	1.6	2.0	6.5
Y315L1-6	110	150	206	990	93.5	0.87	92.9	0.83	91.3	0.76	1.6	2.0	6.5
Y315L2-6	132	180	246	990	93.8	0.87	93.1	0.83	91.5	0.76	1.6	2.0	6.5
Y355M1-6	160	220	300	990	94.1	0.86	93.4	0.84	92.0	0.77	1.9	2.0	6.7
Y355M2-6	200	270	374	990	94.3	0.86	93.6	0.84	92.6	0.77	1.9	2.0	6.7
Y355L-6	250	340	465	990	94.7	0.86	94.0	0.84	92.8	0.77	1.9	2.0	6.7

Overall & Installation Dimensions

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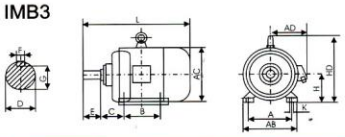

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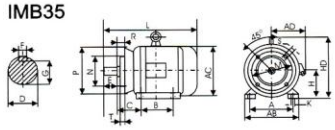

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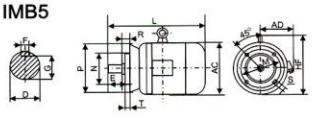

FRAME SIZE	INSTALLATION SIZE (MM) A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	OVERALL DIMENSION(MM) AB	AC	AD	HD	HF	L
Y80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	165	175	150	175	185	290
Y90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	160	195	195	315
Y90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	160	195	195	340
Y100L	160	140	70	28	60	8	24	100	12	215	180	250	0	15	4.0	205	215	180	245	245	380
Y112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	245	240	190	265	265	400
Y132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	275	210	315	315	475
Y132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	275	210	315	315	515
Y160M	245	210	108	42	110	12	37	160	15	300	250	350	0	19	5.0	325	325	255	385	385	600
Y160L	245	254	108	42	110	12	37	160	15	300	250	350	0	19	5.0	325	325	255	385	385	645
Y180M	279	241	121	48	110	14	42.5	180	15	300	250	350	0	19	5.0	355	360	285	430	430	670
Y180L	279	279	121	48	110	14	42.5	180	15	300	250	350	0	19	5.0	355	360	285	430	430	710
Y200L	318	305	133	55	110	16	49	200	19	350	300	400	0	19	5.0	395	400	310	475	475	775
Y225S	356	286	149	60	110	16	49	225	19	400	350	450	0	19	5.0	435	435	345	520	520	820
Y225M	356	311	149	55	110	16	49	225	19	400	350	450	0	19	5.0	435	435	345	520	520	815
Y250M-2	406	349	168	60	140	18	53	250	24	500	450	550	0	19	5.0	490	515	385	575		930
Y250M-4,6,8	406	349	168	65	140	18	58	250	24	500	450	550	0	19	5.0	490	515	385	575		930
Y280S-2	457	368	190	65	140	18	58	280	24	500	450	550	0	19	5.0	550	585	410	640		1000
Y280S-4,6,8	457	368	190	75	140	20	67.5	280	24	500	450	550	0	19	5.0	550	585	410	640		1000
Y280M-2	457	419	190	65	140	18	58	280	24	500	450	550	0	19	5.0	550	585	410	640		1050
Y280M-4,6,8	457	419	190	75	140	20	67.5	280	24	500	450	550	0	19	5.0	550	585	410	640		1050
Y315S-2	508	406	216	65	140	18	58	315	28	600	550	660	0	24	6.0	744	645	576	865		1240
Y315S-4,6,8	508	406	216	80	170	22	71	315	28	600	550	660	0	24	6.0	744	645	576	865		1270
Y315M-2	508	457	216	65	140	18	58	315	28	600	550	660	0	24	6.0	744	645	576	865		1310
Y315M-4,6,8	508	457	216	80	170	22	71	315	28	600	550	660	0	24	6.0	744	645	576	865		1340
Y315L-2	508	508	216	65	140	18	58	315	28	600	550	660	0	24	6.0	744	645	576	865		1310
Y315L-4,6,8	508	508	216	80	170	22	71	315	28	600	550	660	0	24	6.0	744	645	576	865		1340
Y355M-2	610	560	254	75	140	20	67.5	355	28	740	680	800	0	24	6.0	740	750	680	1035		1540
Y355M-4,6,8	610	560	254	95	170	25	86	355	28	740	680	800	0	24	6.0	740	750	680	1035		1570
Y355L-2	610	630	254	75	140	20	67.5	355	28	740	680	800	0	24	6.0	740	750	680	1035		1540
Y355L-4,6,8	610	630	254	95	170	25	86	355	28	740	680	800	0	24	6.0	740	750	680	1035		1570

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 overload, such as air-compressors, pumps, and many other small machines.

ML
Single-Phase Dual-Capacitor Asynchronous Motors
Suntech

OPERATING CONDITIONS

Ambient temperature:	-15 ℃ < θ <40 ℃
Altitude:	Not exceeding 1000meters
Rated voltage:	220V
Rated frequency:	50Hz、60Hz
Duty/Rating:	Continuous(S1)
Protection class:	IP54、IP55
Insulation class:	Class B、F
Cooling method:	IC0141

Technical data (at 230V/50Hz)

Model	Rated Output kW	Rated Current A	Rated Speed rpm	Eff η %	Power factor COSΦ	Rated Torque Nm	Ts/Tn Times	Tmax/Tn Times	Starting Current A	Run Capacitor μf/V	Start Capacitor μf/V	Noise dB A	W.t. Kg
	3000rpm,2-pole,50Hz												
ML631-2	0.18	1.38	2710	63	0.9	0.63	2.5	1.6	8	10 μF/450V	30 μF/250V	70	3.9
ML632-2	0.25	0.89	2710	64	0.9	0.88	2.5	1.6	10	12 μF/450V	40 μF/250V	73	4.4
ML711-2	0.37	2.66	2780	65	0.93	1.27	2.5	1.8	15	12 μF/450V	75 μF/250V	75	6.1
ML712-2	0.55	3.78	2790	68	0.93	0.88	2.5	1.8	20	16 μF/450V	100 μF/250V	76	7
ML801-2	0.75	4.87	2800	72	0.93	2.56	2.5	1.8	30	20 μF/450V	100 μF/250V	76	9
ML802-2	1.1	7.04	2810	73	0.93	3.74	2.5	1.8	40	30 μF/450V	150 μF/250V	79	10.3
ML90S-2	1.5	9.48	2810	74	0.93	5.10	2.5	1.8	55	40 μF/450V	200 μF/300V	84	16.3
ML90L-2	2.2	13.57	2810	75	0.94	7.48	2.5	1.8	75	50 μF/450V	250 μF/300V	84	16.7
ML100L-2	3.0	17.83	2830	77	0.95	10.13	2.5	1.7	110	60 μF/450V	400 μF/300V	88	25
ML112M1-2	3.7	21.48	2850	78	0.96	12.40	2.5	1.7	140	60 μF/450V	600 μF/300V	90	33
ML112M2-2	4.0	22.18	2850	80	0.98	13.41	2.5	1.7	150	60 μF/450V	600 μF/300V	90	34.2
	1500rpm,4-pole,50Hz												
ML631-4	0.12	1.05	1350	55	0.9	0.85	2.5	1.6	6	10 μF/450V	30 μF/250V	64	4.1
ML632-4	0.18	1.55	1350	56	0.9	1.27	2.5	1.6	8.5	12 μF/450V	40 μF/250V	64	4.5
ML711-4	0.25	2.01	1380	60	0.9	1.73	2.5	1.7	10	12 μF/450V	50 μF/250V	66	5.9
ML712-4	0.37	2.84	1380	63	0.9	2.56	2.5	1.7	15	16 μF/450V	75 μF/250V	68	6.9
ML801-4	0.55	4.03	1400	66	0.9	3.75	2.5	1.8	20	20 μF/450V	100 μF/250V	71	9.6
ML802-4	0.75	5.25	1410	69	0.9	5.08	2.5	1.8	30	25 μF/450V	100 μF/250V	71	10.9
ML90S-4	1.1	7.24	1410	71	0.93	7.45	2.5	1.8	40	35 μF/450V	150 μF/250V	74	13.8
ML90L-4	1.5	9.61	1400	73	0.93	10.24	2.5	1.8	55	40 μF/450V	200 μF/300V	79	16.7
ML100L1-4	2.2	13.9	1430	74	0.93	14.70	2.5	1.8	75	50 μF/450V	300 μF/300V	79	22.8
ML100L2-4	3	18.7	1440	75	0.93	19.91	2.5	1.8	110	60 μF/450V	500 μF/300V	83	28.7
ML112M1-4	3.7	21.99	1440	77	0.95	24.55	2.5	1.7	140	60 μF/450V	600 μF/300V	86	31
ML112M2-4	4.0	22.41	1440	80	0.97	26.54	2.5	1.7	150	60 μF/450V	600 μF/300V	86	32.8

Overall & Installation Dimensions

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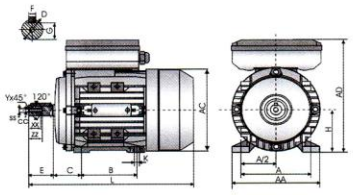
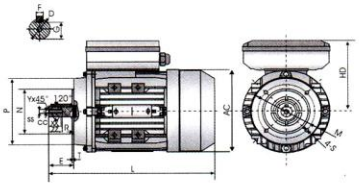
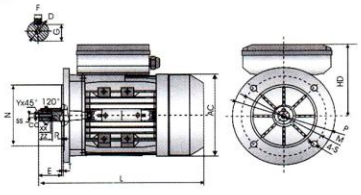


IMB14



IMB5



FRAME SIZE	MOUNTING DIMENSIONS									IMB14						IMB5						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	CC	Y
63	100	80	40	11	23	4	8.5	63	7X10	75	60	90	0	M5	2.5	115	95	140	0	10	3.0	120	130	179	116	212	M4	10	15	3.3	0.8
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	132	145	194	123	255	M5	12	18	4.2	0.8
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	12	3.5	157	165	223	143	290	M6	16	22	5	1
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	172	185	240	150	335	M8	20	25	6.8	1
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	172	185	240	150	365	M8	20	25	6.8	1
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	15	4.0	196	205	260	160	445	M10	22	28	8.5	1.5
112M	190	140	70	28	60	8	24	112	12X15	130	110	160	0	M8	3.5	215	180	250	0	15	4.0	222	230	295	183	453	M10	22	28	8.5	1.5

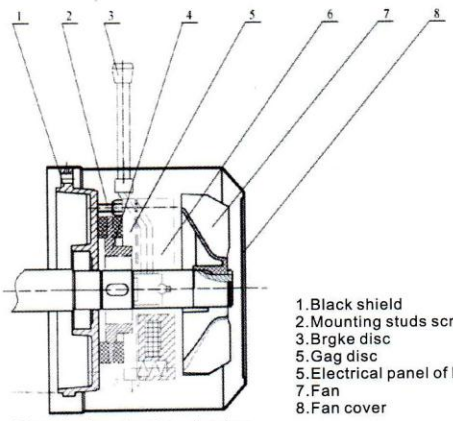
Suntech

MSEJ

Electromagnetic Brake Three-Phase Asynchronous Motors

The brake-motors of the MSEJ 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 vairty 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.



Black device structure drawing

1.Black shield
2.Mounting studs screws
3.Brgke disc
5.Gag disc
5.Electrical panel of brake device
7.Fan
8.Fan cover

Technical data Brake motors have a ± 6% tolerance on voltage supply

Model	Rated Output	Speed	Eff η	Power factor	Current A			Ts/Tn	Tmax/Tn	Tmix/Tn	Ist/In	Noise dB
	kW	rpm	%	COSΦ	230V	400V	690V	Times	Times	Times	Times	A
	1500rpm,4-pole,50Hz											
MSEJ631-4	0.12	1350	57	0.64	0.82	0.47	0.27	2.2	2.4	1.7	6	52
MSEJ632-4	0.18	1350	59	0.65	1.17	0.68	0.39	2.2	2.4	1.7	6	52
■ MSEJ633-4	0.25	1350	60	0.66	1.58	0.91	0.53	2.2	2.4	1.7	6	54
MSEJ711-4	0.25	1350	60	0.72	1.45	0.84	0.48	2.2	2.4	1.7	6	55
MSEJ712-4	0.37	1370	65	0.74	1.92	1.11	0.64	2.2	2.4	1.7	6	55
■ MSEJ713-4	0.55	1380	66	0.75	2.78	1.60	0.93	2.2	2.4	1.7	6	57
MSEJ801-4	0.55	1370	67	0.75	2.74	1.58	0.91	2.2	2.4	1.7	6	58
MSEJ802-4	0.75	1380	72	0.78	3.34	1.93	1.11	2.2	2.4	1.6	6	58
■ MSEJ803-4	1.1	1390	76.2	0.78	4.63	2.67	1.54	2.2	2.4	1.6	6	60
MSEJ90S-4	1.1	1400	76.2	0.79	4.57	2.64	1.52	2.2	2.4	1.6	6	61
MSEJ90L-4	1.5	1400	78.5	0.8	5.97	3.45	1.99	2.2	2.4	1.6	6	61
■ MSEJ90L2-4	2.2	1400	81	0.8	8.45	4.90	2.83	2.2	2.4	1.5	7	63
MSEJ100L1-4	2.2	1420	81	0.81	8.38	4.84	2.79	2.2	2.3	1.5	7	64
MSEJ100L2-4	3	1420	82.6	0.81	11.21	6.47	3.74	2.2	2.3	1.5	7	64
■ MSEJ100L3-4	4	1430	84.2	0.82	14.18	8.36	4.83	2.2	2.3	1.5	7	65
MSEJ112M-4	4	1430	84.2	0.83	14.31	8.26	4.77	2.2	2.2	1.5	7	65
■ MSEJ112L-4	5.5	1440	85.7	0.83	19.33	11.16	6.44	2.2	2.2	1.4	7	68
MSEJ132S-4	5.5	1450	85.7	0.84	19.1	11.03	6.37	2.2	2.2	1.4	7	71
MSEJ132M-4	7.5	1450	87	0.85	25.35	14.64	8.45	2.2	2.2	1.4	7	71
■ MSEJ132L1-4	9.2	1460	87.5	0.85	30.92	17.85	10.31	2.2	2.2	1.4	7.5	74
■ MSEJ132L2-4	10	1460	88	0.85	33.42	19.3	11.14	2.2	2.2	1.4	7.5	74
■ MSEJ132L2-4	11	1460	88.4	0.86	36.17	20.88	12.06	2.2	2.2	1.4	7.5	74
MSEJ160M-4	11	1460	88.4	0.87	35.76	20.64	11.92	2.2	2.2	1.4	7	75
MSEJ160L-4	15	1460	88.4	0.87	48.76	28.15	16.25	2.2	2.2	1.4	7.5	75

● Motor with increased braking torque on request.
★ On request, delayed brake cutting time for lifting equipments. We suggest double disk brake for lifting equipments.
■ Indicates motors of small frame size with high power.

COCONUT DIGGER
SINGLE-PHASE & THREE PHASE
ALUMINUM/CAST-IRON HOUSING

DM series

Suntech

Technical data

Model	Rated output kW	HP	Voltage V	Frequency Hz	Speed rpm
	3000rpm,2-pole,50Hz				
DM150-2	0.15	0.2	220	50	2800
DM180-2	0.18	0.25	220	50	2800
DM250-2	0.25	0.33	220	50	2800
DM370-2	0.37	0.5	220	50	2800
DM550-2	0.55	0.75	220	50	2800
	1500rpm,4-pole,50Hz				
DM150-4	0.15	0.2	220	50	1400
DM180-4	0.18	0.25	220	50	1400
DM250-4	0.25	0.33	220	50	1400
DM370-4	0.37	0.5	220	50	1400
DM550-4	0.55	0.75	220	50	1400

DM series Coconut Digger, are specially designed for digging coconut, It consists: a special digger head and a single-phase capacitor-run asynchronous motor.

DM series have good performance, nice appearance, light weight, and can be maintained very conveniently. They are widely used in processing juice of the coconut in house, workshops and factories