

MELA-MELC IEC Motors

Thailand



MOTORS TYPE MELA MULTI MOUNTING POSITION F3-F1-F2

TYPE MELC SINGLE MOUNTING POSITION F3

Nidec
NIDEC MOTOR CORPORATION

Three Phase, IEC Motors IE2 Efficient Aluminum Frame, IP55 Severe Duty Footed IM1001 (B3)



MELA

Thailand

APPLICATIONS:

For severe duty environments found in the pulp & paper, lumber, aggregates, mining, chemical and other industries.

FEATURES:

- Fully comply with IEC 60034, 60038, 60072 and IE2 efficiency standards
- 40°C ambient, continuous duty
- Altitude 1000 m
- Sealed bearings of same size on both ends Frame 80 to 160
- Regreasable bearings of the same size on both ends Frame 180 to 355
- Grease type Polyrex-EM
- Corrosion resistant mill & chemical duty paint RAL 7024 Grey
- VPI, Class F insulation system, 80K rise at full load on sine wave power
- Stainless steel nameplate and zinc plated hardware
- Shaft seal ring for IP55 protection
- Lifting provisions
- F3-F2-F1 mounting on Frame MELA. F3 only on frame MELC
- Frequency 50Hz
- 380v ± 10% @ 50 Hz up to Frame 355 (315 kW)
- Suitable for wye-delta start @ 380v 50Hz
- Winding connection: 380V Δ AND 660v Y
- Winding Protection: Dandong PTC (1 per phase) from 110KW and Up
- 6 Leads connection Y Δ with Conduit box suitable for 6 terminals
- Single Voltage nameplated @ 50Hz only
- SF 1.15 at 50 Hz @ Insulation class rise or 1.00 at B rise
- CE mark on nameplate
- Field convertible flange FF & FT kits available

KW	HP	Pole	IEC Frame	Catalog #	Model #	DS-Sym	Weight Kg	List		
				Motors F1 Mounting : F2 or F3 Connectable				B3	B5	B14
0.75	1	2	80M1	MELA075E1J	ELA601	IE2SC	8.9	209	219	223
		4	80M2	MELA075E2J	ELA602	IE2SC	8.5	238	250	254
		6	90S	MELA075E3J	ELA303S	IE2SC	14	288	302	308
1.1	1.5	2	80M2	MELA1E1J	ELA604	IE2SC	10	221	232	236
		4	90S	MELA1E2J	ELA605	IE2SC	12.5	286	300	306
		6	90L	MELA1E3J	ELA606	IE2SC	14.5	334	351	357
1.5	2	2	90S	MELA32E1J	ELA607	IE2SC	13	284	298	304
		4	90L	MELA32E2J	ELA608	IE2SC	15	328	345	351
		6	100L	MELA32E3J	ELA609	IE2SC	31	380	399	407
2.2	3	2	90L	MELA2E1J	ELA610	IE2SC	16	316	332	339
		4	100L1	MELA2E2J	ELA611	IE2SC	21	406	426	435
		6	112M	MELA2E3J	ELA612	IE2SC	31	484	508	518
3	4	2	100L	MELA3E1J	ELA613	IE2SC	23	414	435	443
		4	100L2	MELA3E2J	ELA614	IE2SC	35	448	470	479
		6	132S	MELA3E3J	ELA615	IE2SC	42	650	682	695
4	5	2	112M	MELA4E1J	ELA616	IE2SC	32	484	508	518
		4	112M	MELA4E2J	ELA617	IE2SC	33	554	582	593
		6	132M1	MELA4E3J	ELA618	IE2SC	46	721	757	
4.4	6	2	112M2	MELA4X4 E1J	ELA619	IE2SC	45	610	640	652
		4	112M2	MELA4X4E2J	ELA620	IE2SC	49	747	784	799
		6	132M2	MELA4X4E3J	ELA621	IE2SC	54	877	921	
5.5	7.5	2	132S1	MELA5E1J	ELA622	IE2SC	51	701	736	
		4	132S	MELA5E2J	ELA623	IE2SC	46	746	783	
		6	132M2	MELA5E3J	ELA624	IE2SC	54	818	859	
7.5	10	2	132S2	MELA7E1J	ELA625	IE2SC	55	771	810	
		4	132M	MELA7E2J	ELA626	IE2SC	52	850	892	
9.2	12.5	2	132M	MELA9E1J	ELA628	IE2SC	55	991	1041	
		4	160M1	MELA9E2J	ELA629	IE2SC	104	1591	1671	
11	15	4	160M	MELA11E2J	ELA632	IE2SC	114	1377	1446	
15	20	4	160L	MELA15E2J	ELA635	IE2SC	133	1545	1622	

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Three Phase, IEC Motors IE2 Efficient Cast Iron, IP55 Severe Duty Footed IM1001 (B3)



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KW	HP	Pole	IEC Frame	Catalog #	Model #	DS-Sym	Weight Kg	List		
				Motors F1 Mounting Position				B3	B5	B14
2.2	3		90L	MELC2E1J	ELC610	IE2SC	28	295	310	316
			100L1	MELC2E2J	ELC611	IE2SC	36	442	464	473
			112M	MELC2E3J	ELC612	IE2SC	46	509	535	545
3	4		100L	MELC3E1J	ELC613	IE2SC	36	412	432	440
			100L2	MELC3E2J	ELC614	IE2SC	38	505	530	540
			132S	MELC3E3J	ELC615	IE2SC	58	649	682	
4	5		112M	MELC4E1J	ELC616	IE2SC	45	493	518	528
			112M	MELC4E2J	ELC617	IE2SC	49	615	646	658
			132M1	MELC4E3J	ELC618	IE2SC	69	733	769	
4.4	6		112M2	MELC4X4 E1J	ELC619	IE2SC	48	519	545	555
			112M2	MELC4X4E2J	ELC620	IE2SC	52	650	682	695
			132M2	MELC4X4E3J	ELC621	IE2SC	74	765	803	
5.5	7.5		132S1	MELC5E1J	ELC622	IE2SC	64	690	724	
			132S	MELC5E2J	ELC623	IE2SC	67	795	835	
			132M2	MELC5E3J	ELC624	IE2SC	78	870	913	
7.5	10		132S2	MELC7E1J	ELC625	IE2SC	66	756	794	
			132M	MELC7E2J	ELC626	IE2SC	79	915	961	
			160M	MELC7E3J	ELC627	IE2SC	108	1246	1308	
9.2	12.5		132M	MELC9E1J	ELC628	IE2SC	73	867	910	
			160M1	MELC9E2J	ELC629	IE2SC	104	1215	1276	
			160M1	MELC9E3J	ELC630	IE2SC	120	Consult		
11	15		160M1	MELC11E1J	ELC631	IE2SC	106	1236	1298	
			160M	MELC11E2J	ELC632	IE2SC	114	1292	1356	
			160L	MELC11E3J	ELC633	IE2SC	135	1511	1587	
15	20		160M2	MELC15E1J	ELC634	IE2SC	118	1371	1440	
			160L	MELC15E2J	ELC635	IE2SC	133	1522	1598	
			180L	MELC15E3J	ELC636	IE2SC	180	1929	2025	
18.5	25	2	160L	MELC19E1J	ELC637	IE2SC	130	1498	1573	
		4	180M	MELC19E2J	ELC638	IE2SC	168	1954	2052	
		6	200L	MELC19E3J	ELC639	IE2SC	220	2196	2306	
22	30	2	180M	MELC22E1J	ELC640	IE2SC	178	2009	2109	
		4	180L	MELC22E2J	ELC641	IE2SC	188	2165	2273	
		6	200L	MELC22E3J	ELC642	IE2SC	230	2443	2565	
30	40	2	200L	MELC30E1J	ELC643	IE2SC	220	2320	2435	
		4	200L	MELC30E2J	ELC644	IE2SC	243	2663	2796	
		6	225M	MELC30E3J	ELC645	IE2SC	277	3118	3274	
37	50	2	200L2	MELC37E1J	ELC646	IE2SC	233	2569	2697	
		4	225S	MELC37E2J	ELC647	IE2SC	282	3232	3393	
		6	250M	MELC37E3J	ELC648	IE2SC	360	3762	3950	
45	60	2	225M	MELC45E1J	ELC649	IE2SC	300	3221	3382	
		4	225M	MELC45E2J	ELC650	IE2SC	312	3543	3720	
		6	280S	MELC45E3J	ELC651	IE2SC	470	5002	5252	

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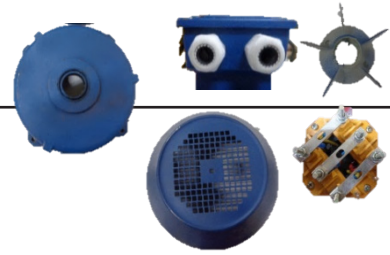


MELC

Thailand

KW	HP	Pole	IEC Frame	Catalog #	Model #	DS-Sym	Weight Kg	List		
				Motors F1 Mounting Position				B3	B5	B14
55	75	2	250M	MELC55E1J	ELC652	IE2SC	389	3912	4107	
		4	250M	MELC55E2J	ELC653	IE2SC	403	4559	4787	
		6	280M	MELC55E3J	ELC654	IE2SC	538	5714	6000	
75	100	2	280S	MELC75E1J	ELC655	IE2SC	482	5467	5741	
		4	280S	MELC75E2J	ELC656	IE2SC	550	6190	6499	
		6	315S	MELC75E3J	ELC657	IE2SC	874	8233	8644	
90	125	2	280M	MELC90E1J	ELC658	IE2SC	536	6080	6384	
		4	280M	MELC90E2J	ELC659	IE2SC	640	7017	7367	
		6	315M	MELC90E3J	ELC660	IE2SC	877	9422	9893	
110	150	2	315S	MELC110E1J	ELC661	IE2SC	802	8989	9438	
		4	315S	MELP110E2J	ELC662	IE2SC	838	9982	10482	
		6	315L1	MELC110E3J	ELC663	IE2SC	988	10739	11276	
132	175	2	315M	MELC132E1J	ELC664	IE2SC	946	9932	10428	
		4	315M	MELC132E2J	ELC665	IE2SC	930	11019	11570	
		6	315L2	MELC132E3J	ELC666	IE2SC	1116	12163		
160	200	2	315L1	MELC160E1J	ELC667	IE2SC	990	10602	11132	
		4	315L1	MELC160E2J	ELC668	IE2SC	1022	12212	12822	
		6	355M1	MELC160E3J	ELC669	IE2SC	1506	17457		
185	250	2	315L	MELC185E1J	ELC670	IE2SC	1025	11592	12172	
		4	315L	MELC185E2J	ELC671	IE2SC	1094	12768	13406	
		6	355M2	MELC185E3J	ELC672	IE2SC	1512	18739	19676	
200	270	2	315L2	MELOC200E1J	ELC673	IE2SC	1095	11797		
		4	315L2	MELC200E2J	ELC674	IE2SC	1160	13337		
		6	355M3	MELC200E3J	ELC675	IE2SC	1596	19654		
250	340	2	355M2	MELC250E1J	ELC676	IE2SC	1718	20793		
		4	355M2	MELC250E2J	ELC677	IE2SC	1800	20167		
		6	355L3	MELC250E3J	ELC678	IE2SC	1847	22423		
315	430	2	355L2	MELC315E1J	ELC679	IE2SC	1815	23266		
		4	355L2	MELC315E2J	ELC680	IE2SC	1960	22658		
		6	3552			IE2SC	2700	30614		

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Kit FF Flange

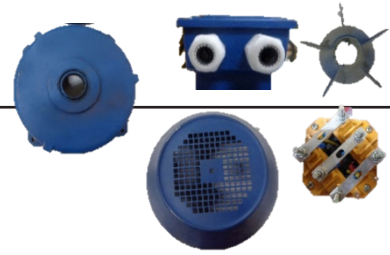
IEC Symbol	Motor Frame	For Cast-iron MELC			For Aluminum MELA	
		Nidec Catalog #	Comment	List	Nidec Catalog #	List
FF165	80	FF165ELC80	2-4-6 Poles	79	FF165ELA80	43
	90	FF165ELC90	2-4-6 Poles	89	FF165ELA90	45
FF215	100	FF215ELC100	2-4-6 Poles	138	FF215ELA100	70
	112	FF215ELC112	2-4-6 Poles	162	FF215ELA112	75
FF265	132	FF265ELC132	2-4-6 Poles	238	FF265ELA132	110
FF300	160	FF300ELC160	2-4-6 Poles	365		
	180	FF300ELC180	2-4-6 Poles			
FF350	200	FF350ELC200	2-4-6 Poles	522		
FF400	225	FF400ELC225-2	2 Poles Only	634		
		FF400ELC225	4 & 6 Poles			
FF500	250	FF500ELC250-2	2 Poles Only	896		
		FF500ELC250	4 & 6 Poles			
	280	FF500ELC280-2	2 Poles Only	1054		
		FF500ELC280	4 & 6 Poles			
FF600	315	FF600ELC315	2 Poles Only	1497		
		FF600ELC315	4 & 6 Poles			

Kit FT Flange

IEC Symbol	Motor Frame	For Cast-iron MELC			For Aluminum MELA	
		Nidec Catalog #	L.A Model #	List	Nidec Catalog #	List
FT100	80	FT100ELC80	80 B14	84	FT100ELA80	45
FT115	90	FT115ELC90	90 B14	94	FT115ELA90	50
FT130	100	FT130ELC100	100 B14	147	FT130ELA100	80
FT130	112	FT130ELC112	112 B14	172	FT130ELA112	90
FT215	132	FT215ELC132	132 B14	-	FF265ELA132	130

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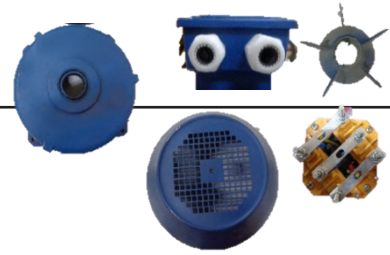


Plastic Fan

Motor Type	Motor Frame	Poles	List	Nidec Catalog #	List
MELA, MELC	80	All	5	FAN80EL	5
MELA, MELC	90	2 only	5	FAN80-2EL	5
MELA, MELC	90	4 & 6	5	FAN80EL	5
MELA, MELC	100	All	10	FAN100EL	10
MELA, MELC	112	2 only	15	FAN112-2EL	15
MELA, MELC	112	4 & 6 & 8	15	FAN112EL	15
MELA, MELC	132	2 only	20	FAN132-2EL	20
MELA, MELC	132	4 & 6 & 8	20	FAN132EL	20
MELA, MELC	160	2 only	25	FAN160-2EL	25
MELA, MELC	160	4 & 6 & 8	30	FAN160EL	30
MELC	180	2 & 4	35	FAN180-2-4ELC	35
MELC	180	6 & 8	40	FAN180-6-8ELC	40
MELC	200	2 only	45	FAN200-2ELC	45
MELC	200	4 & 6 & 8	50	FAN200ELC	50
MELC	225	2 only	60	FAN225-2ELC	60
MELC	225	4 & 6 & 8	75	FAN225ELC	75
MELC	250	2 only	80	FAN250-2ELC	80
MELC	250	4 & 6 & 8	100	FAN250ELC	100
MELC	280	2 only	110	FAN280-2ELC	110
MELC	280	4 & 6 & 8	150	FAN280ELC	150
MELC	315 & 355	2 only *	300	FAN300-2ELC	300
MELC	315 & 355	4 only *	300	FAN300-4ELC	300
MELC	315 & 355	6 & 8 *	300	FAN300-6-8ELC	300

* Aluminum





Fan Cover

Motor Type	Motor Frame	Horizontal Mount		Vertical Mount	
		Nidec Catalog #	List	Nidec Catalog #	List
MELA, MELC	80	FCG80EL	13	FCV80EL	25
MELA	90	FCG90ELA	17	FCV90ELA	35
MELC	90	FCG90ELC	17	FCV90ELC	35
MELA, MELC	100	FCG100EL	20	FCV100EL	40
MELA	112	FCG112ELA	22	FCV112EL	45
MELC	112	FCG112ELC	22	FCV112ELC	45
MELA, MELC	132	FCG132EL	32	FCV132EL	65
MELA, MELC	160	FCG160EL	55	FCV160EL	110
MELC	180	FCG180ELC	80	FCV180ELC	160
MELC	200	FCG200ELC	110	FCV200ELC	220
MELC	225	FCG225ELC	140	FCV225ELC	280
MELC	250	FCG250ELC	170	FCV250ELC	340
MELC	280	FCG280ELC	200	FCV280ELC	400
MELC	315	FCG315ELC	300	FCV315ELC	600
MELC	355	FCG355ELC	560	FCV355ELC	1100

Conduit Box and Terminal Board

Motor Type	Motor Frame	Conduit Box				Terminal Board	
		MELC Cast-iron Frame		MELA Aluminum Frame		MELC & MELA	
		Nidec Catalog #	List	Nidec Catalog #	List	Nidec Catalog #	List
	80	CB80ELC	20	CB80ELA	30	TB80EL	15
	90	CB90ELC	30	CB90ELA	40	TB90EL	18
	100	CB100ELC	30	CB100ELA	40	TB100EL	18
	112	CB112ELC	40	CB112ELA	60	TB112EL	20
	132	CB132ELC	40	CB132ELA	60	TB132EL	20
	160	CB160ELC	60	CB160ELZ	180	TB160EL	40
	180	CB180ELC	60			TB180ELC	40
	200	CB200ELC	90			TB200ELC	90
	225	CB225ELC	90			TB225ELC	90
	250	CB250ELC	120			TB250ELC	150
	280	CB280ELC	120			TB280ELC	150
	315	CB315ELC	300			TB315ELC	700
	355	CB355ELC	300			TB355ELC	1300

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