

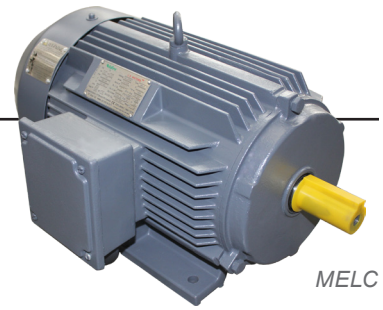
Metric Efficient Line Cast-iron IEC Motors

Peru



MOTOR METRIC EFFICIENT LINE CAST-IRON (MELC) SINGLE MOUNTING POSITION F1

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



MELC

Peru

APPLICATIONS:

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

FEATURES:

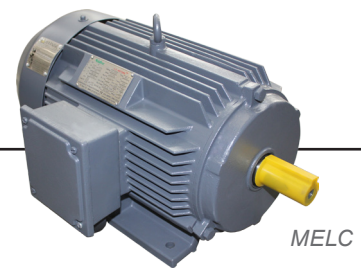
- Fully comply with IEC 60034, 60038, 60072 and IE2 efficiency standards
- 40°C ambient, continuous duty
- Altitude 1000 m
- Sealed bearings of same size on both ends Frame 80 to 160
- Regreasable bearings of the same size on both ends Frame 180 to 355
- Grease type Polyrex-EM
- Corrosion resistant mill & 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
- F1 mounting Only
- Frequency 60 HZ
- 220v / 380v / 440v \pm 10% 60 Hz From 0.75 kW and up to 200 kW (Frame 355)
- Suitable for DOL start 380V Up to 200 kW
- Suitable for wye-delta start @ 220v and 440v from 0.75 to 200kW
- Winding connection: 220V 2 Δ / 380v 2Y / 440V Δ / 762v Y
- Winding Protection: Dandong PTC (1 per phase) from 110KW and Up
- 12 Leads connection Y Δ with Conduit box suitable for 6 terminals
- Single Frequency nameplated @ 60Hz only
- SF 1.15 at 60 Hz
- 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 Position				B3	B5	B14
0.75	1	2	80M1	MELC075E1R	ELC201S	IE2PE	18	213	224	228
		4	80M2	MELC075E2R	ELC202S	IE2PE	19	270	284	289
		6	90S	MELC075E3R	ELC203S	IE2PE	26	314	330	336
1.1	1.5	2	80M2	MELC1E1R	ELC204S	IE2PE	20	228	239	244
		4	90S	MELC1E2R	ELC205S	IE2PE	25	321	337	344
		6	100L1	MELC1E3R	ELC206S	IE2PE	32	380	399	407
1.5	2	2	80M3	MELC3E1R	ELC207S	IE2PE	23	291	306	312
		4	90S1	MELC3E2R	ELC208S	IE2PE	27	376	394	402
		6	112M1	MELC3E3R	ELC209S	IE2PE	42	445	467	476
2.2	3	2	90S1	MELC2E1R	ELC210S	IE2PE	26	328	344	351
		4	90L2	MELC2E2R	ELC211S	IE2PE	38	410	431	439
		6	112M	MELC2E3R	ELC212S	IE2PE	46	566	594	605
3	4	2	90L1	MELC3E1R	ELC213S	IE2PE	32	457	480	489
		4	100L2	MELC3E2R	ELC214S	IE2PE	43	561	589	600
		6	132S	MELC3E3R	ELC215S	IE2PE	58	722	758	
4	5	2	100L1	MELC4E1R	ELC216S	IE2PE	41	535	561	572
		4	100L3	MELC4E2R	ELC217S	IE2PE	45	648	680	693
		6	132S1	MELC4E3R	ELC218S	IE2PE	64	814	855	
4.4	6	2	112M1	MELC4X4E1R	ELC219S	IE2PE	51	642	674	
		4	112M1	MELC4X4E2R	ELC220S	IE2PE	50	722	758	
		6	132S2	MELC4X4E3R	ELC221S	IE2PE	67	850	892	
5.5	7.5	2	112M2	MELC5E1R	ELC222S	IE2PE	57	767	805	
		4	112M2	MELC5E2R	ELC223S	IE2PE	57	883	927	
		6	132M2	MELC5E3R	ELC224S	IE2PE	78	966	1014	
7.5	10	2	132S2	MELC7E1R	ELC225S	IE2PE	66	840	882	
		4	132M	MELC7E2R	ELC226S	IE2PE	75	1017	1068	
		6	132ML3	MELC7E3R	ELC227S	IE2PE	99	1154	1212	
9.2	12.5	2	132M	MELC9E1R	ELC228S	IE2PE	76	963	1011	
		4	132M1	MELC9E2R	ELC229S	IE2PE	80	1150	1208	
		6								
11	15	2	132ML1	MELC11E1R	ELC231S	IE2PE	90	1145	1202	
		4	132ML2	MELC11E2R	ELC232S	IE2PE	99	1196	1256	
		5	160M1	MELC11E3R	ELC233S	IE2PE	125	1679	1763	

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

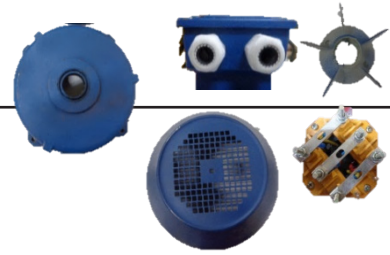


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KW	HP	Pole	IEC Frame	Catalog #	Model #	DS-Sym	Weight Kg	List		
				Motors F1 Mounting Position				B3	B5	B14
15	20	2	160M2	MELC15E1R	ELC234S	IE2PE	119	1524	1600	
		4	160M1	MELC15E2R	ELC235S	IE2PE	122	1691	1776	
		6	160L1	MELC15E3R	ELC236S	IE2PE	150	2143	2250	
18.5	25	2	160M3	MELC19E1R	ELC237S	IE2PE	123	1664	1748	
		4	160L1	MELC19E2R	ELC238S	IE2PE	140	2172	2280	
		6	180L1	MELC19E3R	ELC239S	IE2PE	195	2440	2562	
22	30	2	160L1	MELC22E1R	ELC240S	IE2PE	139	2232	2344	
		4	180M1	MELC22E2R	ELC241S	IE2PE	176	2405	2526	
		6	200L2	MELC22E3R	ELC242S	IE2PE	230	2714	2850	
30	40	2	200L1	MELC30E1R	ELC243S	IE2PE	218	2577	2706	
		4	200L	MELC30E2R	ELC244S	IE2PE	241	2959	3107	
		6	200L3	MELC30E3R	ELC245S	IE2PE	250	3464	3638	
37	50	2	200L2	MELC37E1R	ELC246S	IE2PE	230	2854	2997	
		4	200L1	MELC37E2R	ELC247S	IE2PE	254	3591	3770	
		6	225M1	MELC37E3R	ELC248S	IE2PE	310	4180	4389	
45	60	2	225M	MELC45E1R	ELC249S	IE2PE	283	3578	3757	
		4	225M	MELC45E2R	ELC250S	IE2PE	325	3936	4133	
		6	250M1	MELC45E3R	ELC251S	IE2PE	390	5558	5836	
55	75	2	225M1	MELC55E1R	ELC252S	IE2PE	326	3622	3803	
		4	225M1	MELC55E2R	ELC253S	IE2PE	356	4221	4432	
		6	250M2	MELC55E3R	ELC254S	IE2PE	450	6349	6667	
75	100	2	250M1	MELC75E1R	ELC255S	IE2PE	420	5063	5316	
		4	250M1	MELC75E2R	ELC256S	IE2PE	490	5731	6018	
		6	280M2	MELC75E3R	ELC257S	IE2PE	610	7623	8004	
90	125	2	280M	MELC90E1R	ELC258S	IE2PE	536	6756	7094	
		4	280M	MELC90E2R	ELC259S	IE2PE	602	7796	8186	
		6	280M3	MELC90E3R	ELC260S	IE2PE	725	8724	9160	
110	150	2	280M1	MELC110E1R	ELC261S	IE2PE	580	9988	10487	
		4	280M1	MELC110E2R	ELC262S	IE2PE	646	9660	10143	
		6	315M1	MELC110E3R	ELC263S	IE2PE	988	11932	12528	
132	180	2	315M	MELC132E1R	ELC264S	IE2PE	946	11035	11587	
		4	315M	MELC132E2R	ELC265S	IE2PE	927	12243	12855	
		6	315M2	MELC132E3R	ELC266S	IE2PE	1116	13515	14190	
160	200	2	315M1	MELC160E1R	ELC267S	IE2PE	990	11780	12369	
		4	315M1	MELC160E2R	ELC268S	IE2PE	1007	13569	14247	
		6	355M1	MELC160E3R	ELC269S	IE2PE	1506	19396		
185	250	2	315M2	MELC185E1R	ELC270S	IE2PE	1025	12880	13524	
		4	315M2	MELC185E2R	ELC271S	IE2PE	1094	14186	14896	
		6	355M2	MELC185E3R	ELC272S	IE2PE	1512	20821		
200	270	2	315L2	MELC200E1R	ELC273S	IE2PE	1500	13108	13764	
		4	315L2	MELC200E2R	ELC274S	IE2PE	1550	14818	15559	
		6	355M3	MELC200E3R	ELC275S	IE2PE	1512	21838		
250	340	2	355M2	MELC250E1R	ELC276S	IE2PE	1650	23104		
		4	355M2	MELC250E2R	ELC277S	IE2PE	1720	22408		
		6	355L3	MELC250E3R	ELC278S	IE2PE	1880	24914		
315	430	2	355L2	MELC315E1R	ELC279S	IE2PE	1850	25851		
		4	355L2	MELC315E2R	ELC280S	IE2PE	1940	25175		
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Kit FF Flange

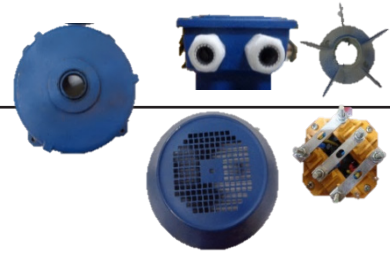
IEC Symbol	Motor Frame	For Cast-iron MELC			For Aluminum MELA	
		Nidec Catalog #	Comment	List	Nidec Catalog #	List
FF165	80	FF165ELC80	2-4-6 Poles	79	FF165ELA80	43
	90	FF165ELC90	2-4-6 Poles	89	FF165ELA90	45
FF215	100	FF215ELC100	2-4-6 Poles	138	FF215ELA100	70
	112	FF215ELC112	2-4-6 Poles	162	FF215ELA112	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	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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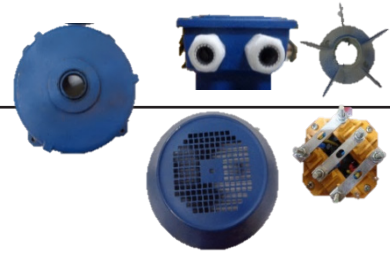


Plastic Fan

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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