INNOMOTICS

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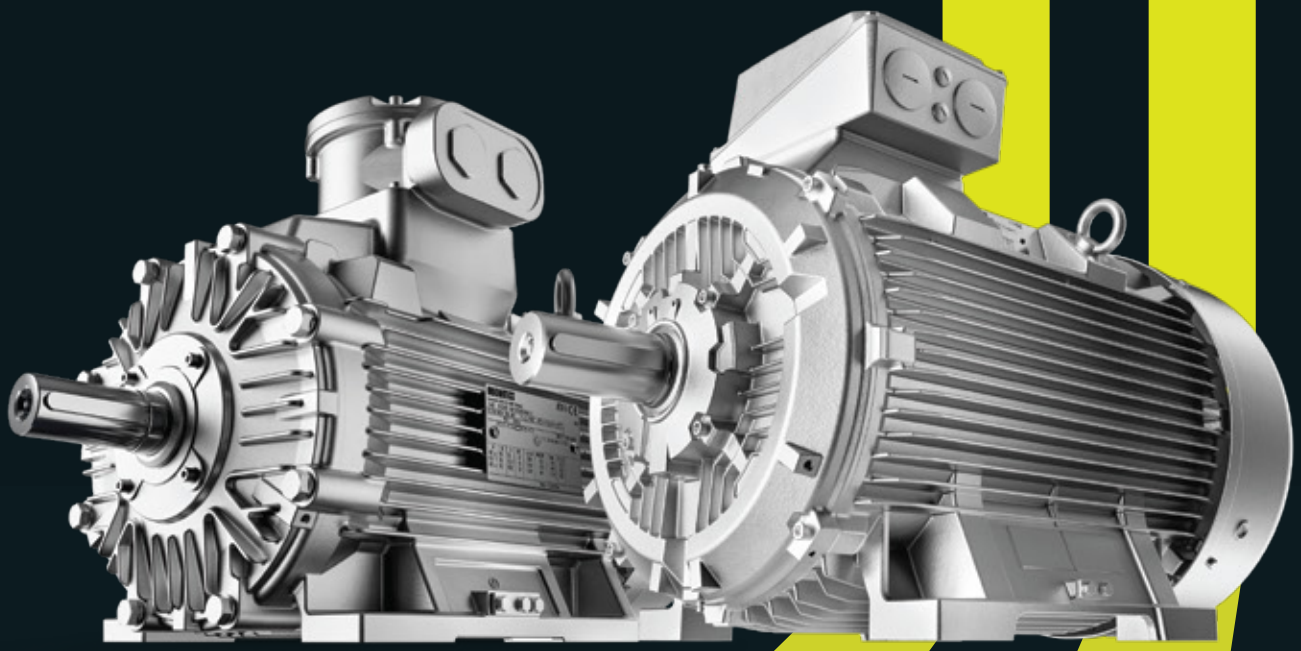
Your Trusted Partner For All Your Electrical Needs

It's time for new reliable motion.



List Price LP-Mot / 207
eff. 10th November 2025

Motor configuration at your fingertips

Introducing SPC tool – an online configurator tool for Innomotics Moves! Motors

Product Configuration tool: Getting customized Innomotics Moves! motor documents is now faster and easier than ever before.

The SPC tool enables you to get easy and un-restricted access to the Innomotics Moves! motors portfolio and its comprehensive range of documents anytime, anywhere Independently.

- 24 Round-the-clock Access
- Comprehensive Document Downloads
- Simple & User Friendly Interface

CAD drawings for variety of CAD softwares including 3D models also available.

To know more, Please contact nearest sales representative

or scan QR code.

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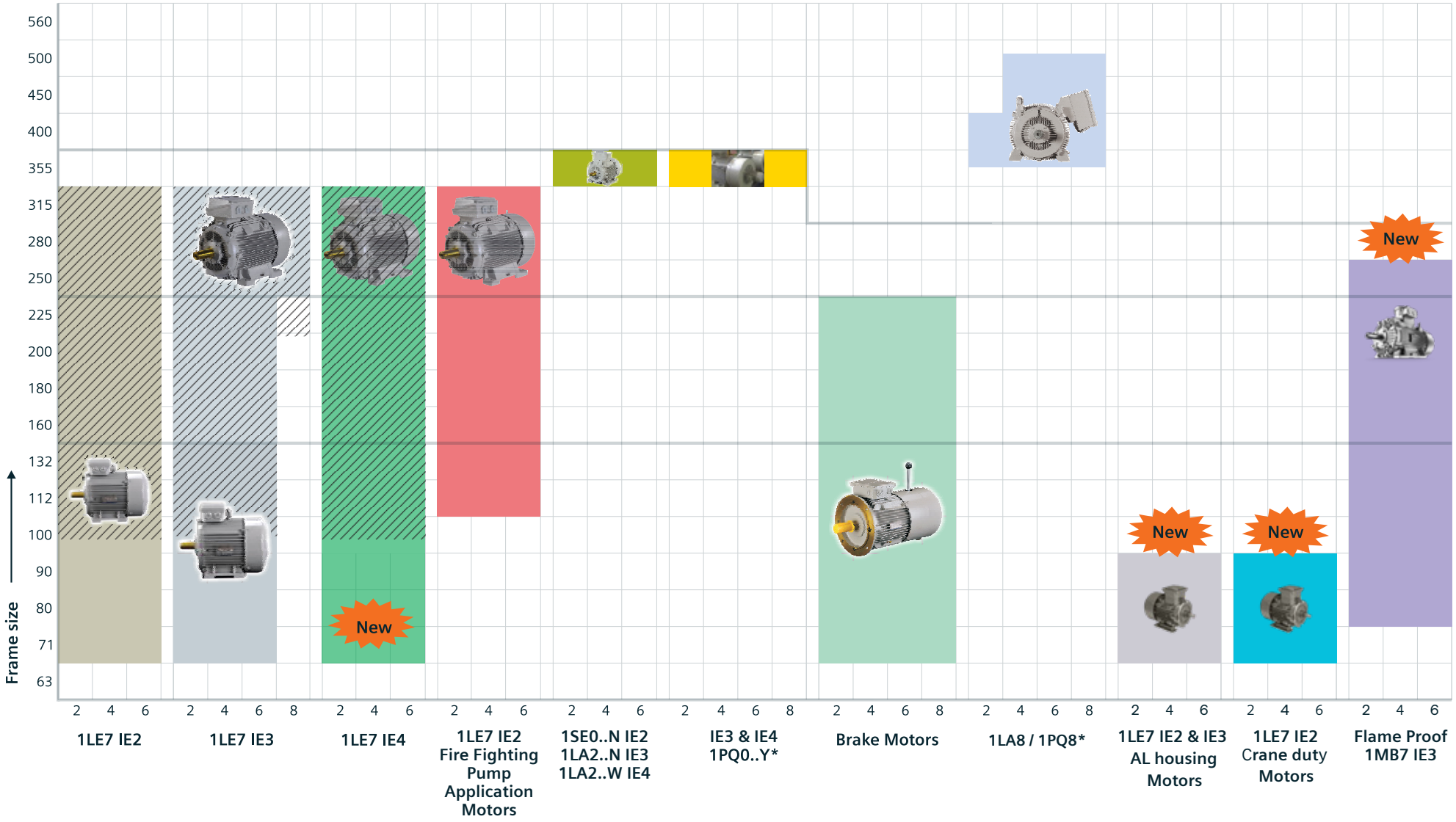
For Technical details, Please refer catalogues or contact our nearest sales office.

- This replaces our price list LP-Mot/206, 1st August 2025.
- Prices are subject to change without notice.
- Prices are ex-works/ex-godown and excluding GST which will be charged extra as actuals.
- While motor output is given in kW and HP, the former is binding.

LV Motors Range



IC 416 is possible for frame 100 onwards.

* 1PQ0..Y & 1PQ8 motor is available in IC416 cooling only.

INNOMOTICS

Efficient Power.
Uncompromised Safety.

Motors for hazardous environments.

Efficiency class IE3.

CE compatible design motors and higher efficiency at 75% load.

50°C ambient temperature as default.

Cast Iron cooling fan as default.

Insulation class F utilized to B on VFD supply at nameplate kW.

IP66 Degree of ingress protection IP66.

Flame Proof Motors 1MB7 - IE3

Degree of Protection IP66, Insulation Class 'F', Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) with marking Ex db IIB T4 Gb, conforming IS/IEC 60079-1, classified as Zone 1 & Zone 2

2 - Pole 3000 rev/min

Output		Frame Size	Mounting holes	Motor Type	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP							
240VΔ/415VY 50Hz+								
0.75	1	80	-	7CD3082A	1MB7563-0DA22-3AA4	71,100	●	▲
1.1	1.5	80	-	7CD3083A	1MB7563-0DA32-3AA4	87,000	●	▲
1.5	2	90S	-	7CD3090A	1MB7563-0EA02-3AA4	91,800	●	▲
415VΔ 50Hz								
2.2	3	90L	-	7CD3094A	1MB7563-0EA43-5AA4	111,150	●	▲
3.7	5	100L	-	7CD3105A	1MB7563-1AA53-5AA4	148,300	●	▲
5.5	7.5	132S	**S** & M	7CD3130A	1MB7563-1CA03-5AA4	215,450	●	▲
7.5	10	132S	**S** & M	7CD3131A	1MB7563-1CA13-5AA4	251,350	●	▲
11	15	160M	**M** & L	7CD3162A	1MB7563-1DA23-5AA4	486,700	●	▲
15	20	160M	**M** & L	7CD3163A	1MB7563-1DA33-5AA4	536,250	●	▲
18.5	25	160L	M & **L**	7CD3164A	1MB7563-1DA43-5AA4	574,900	●	▲
22	30	180M	M & **L**	7CD3182A	1MB7563-1EA23-5AA4	660,950	●	▲
30	40	200L	-	7CD3204A	1MB7563-2AA43-5AA4	882,350	●	▲
37	50	200L	-	7CD3204A	1MB7563-2AA53-5AA4	1,077,950	●	▲
45	60	225M	S & **M**	7CD3222A	1MB7563-2BA23-5AA4	1,334,900	●	▲
55	75	250M	-	7CD3252A	1MB7563-2CA23-5AA4	1,829,900	●	▲
75	100	280S	**S** & M	7CD3280A	1MB7563-2DA03-5AA4	2,221,600	●	▲
90	120	280M	S & **M**	7CD3282A	1MB7563-2DA23-5AA4	2,350,650	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Motor Type	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP							
240VΔ/415VY 50Hz+								
0.55	0.75	80	-	7CD3082B	1MB7563-0DB22-3AA4	69,250	●	▲
0.75	1	80	-	7CD3083B	1MB7563-0DB32-3AA4	74,250	●	▲
1.1	1.5	90S	-	7CD3090B	1MB7563-0EB02-3AA4	86,450	●	▲
1.5	2	90L	-	7CD3094B	1MB7563-0EB42-3AA4	100,450	●	▲
415VΔ 50Hz								
2.2	3	100L	-	7CD3104B	1MB7563-1AB43-5AA4	127,850	●	▲
3.7	5	112M	-	7CD3122B	1MB7563-1BB23-5AA4	152,750	●	▲
5.5	7.5	132S	**S** & M	7CD3130B	1MB7563-1CB03-5AA4	210,650	●	▲
7.5	10	132M	S & **M**	7CD3132B	1MB7563-1CB23-5AA4	236,450	●	▲
11	15	160M	**M** & L	7CD3162B	1MB7563-1DB23-5AA4	405,050	●	▲
15	20	160L	M & **L**	7CD3164B	1MB7563-1DB43-5AA4	481,350	●	▲
18.5	25	180M	**M** & L	7CD3182B	1MB7563-1EB23-5AA4	547,700	●	▲
22	30	180L	M & **L**	7CD3184B	1MB7563-1EB43-5AA4	646,350	●	▲
30	40	200L	-	7CD3205B	1MB7563-2AB53-5AA4	874,700	●	▲
37	50	225S	**S** & M	7CD3220B	1MB7563-2BB03-5AA4	1,166,550	●	▲
45	60	225M	S & **M**	7CD3222B	1MB7563-2BB23-5AA4	1,439,200	●	▲
55	75	250M	-	7CD3252B	1MB7563-2CB23-5AA4	1,806,900	●	▲
75	100	280S	**S** & M	7CD3280B	1MB7563-2DB03-5AA4	2,029,950	●	▲
90	120	280M	S & **M**	7CD3282B	1MB7563-2DB23-5AA4	2,141,300	●	▲

Flame Proof Motors 1MB7 - IE3

Degree of Protection IP66, Insulation Class 'F', Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) with marking Ex db IIB T4 Gb, conforming IS/IEC 60079-1, classified as Zone 1 & Zone 2

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Motor Type	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP							
240VΔ/415VY 50Hz+								
0.37	0.5	80	-	7CD3082C	1MB7563-0DC22-3AA4	71,100	●	▲
0.55	0.75	80	-	7CD3083C	1MB7563-0DC32-3AA4	76,600	●	▲
0.75	1	90S	-	7CD3090C	1MB7563-0EC02-3AA4	86,550	●	▲
1.1	1.5	100L	-	7CD3103C	1MB7563-1AC32-3AA4	121,200	●	▲
1.5	2	112M	-	7CD3121C	1MB7563-1BC12-3AA4	140,350	●	▲
415VΔ 50Hz								
2.2	3	132S	**S** & M	7CD3131C	1MB7563-1CC13-5AA4	186,150	●	▲
3.7	5	132M	S & **M**	7CD3132C	1MB7563-1CC23-5AA4	214,800	●	▲
5.5	7.5	132M	S & **M**	7CD3133C	1MB7563-1CC33-5AA4	226,250	●	▲
7.5	10	160M	**M** & L	7CD3162C	1MB7563-1DC23-5AA4	408,300	●	▲
11	15	160L	M & **L**	7CD3164C	1MB7563-1DC43-5AA4	491,800	●	▲
15	20	180L	M & **L**	7CD3184C	1MB7563-1EC43-5AA4	591,800	●	▲
18.5	25	200L	-	7CD3204C	1MB7563-2AC43-5AA4	748,800	●	▲
22	30	200L	-	7CD3205C	1MB7563-2AC53-5AA4	816,300	●	▲
30	40	225M	S & **M**	7CD3222C	1MB7563-2BC23-5AA4	1,257,350	●	▲
37	50	250M	-	7CD3252C	1MB7563-2CC23-5AA4	1,773,600	●	▲
45	60	280S	**S** & M	7CD3280C	1MB7563-2DC03-5AA4	1,922,350	●	▲
55	75	280M	S & **M**	7CD3282C	1MB7563-2DC23-5AA4	2,052,750	●	▲

'+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

Selection & Ordering codes for 1MB7

MLFB Position	Voltage code		Construction code	Winding Protection code	Terminal Box code	Incremental LP in INR										
	12th & 13th	Short code	14th	15th	16th	80	90	100	112	132	160	180	200	225	250	280
1MB7563 - □□□	■-■□□□		□-□■□□	□-□□■□	□-□□□■											
Voltage																
50Hz, 415VΔ#	3-5					□	□	□	□	□	□	□	□	□	□	□
50Hz, 240VΔ/415VY#	2-3					□	□	□	□	□	□	□	□	□	□	□
50HZ, 380VY	2-1					2,500	3,000	4,200	5,000	7,500	15,000	20,000	30,000	40,000	60,000	70,000
50HZ, 400VY	2-2					2,500	3,000	4,200	5,000	7,500	15,000	20,000	30,000	40,000	60,000	70,000
50Hz, 380VΔ	3-3					2,500	3,000	4,200	5,000	7,500	15,000	20,000	30,000	40,000	60,000	70,000
50HZ, 400VΔ	3-4					2,500	3,000	4,200	5,000	7,500	15,000	20,000	30,000	40,000	60,000	70,000
50HZ, 500VΔ$	4-0					Contact Sales office										
50Hz, Any Non std voltage mentioned in Table 9.1 (upto 480V)	9-0	M1Y				2,500	3,000	4,200	5,000	7,500	15,000	20,000	30,000	40,000	60,000	70,000
50Hz, 690VΔ@$	4-7					Contact Sales office										
50Hz, 690VY@$	9-0	M1Y				Contact Sales office										
Customized winding	9-0	M1Y				2,500	3,000	4,200	5,000	7,500	15,000	20,000	30,000	40,000	60,000	70,000
Voltage other than above						Contact Sales office										
Type of Construction																
	IMB3		A			□	□	□	□	□	□	□	□	□	□	□
	IMB6		T			O	O	O	O	O	O	O	O	O	O	O
	IMB7		U			O	O	O	O	O	O	O	O	O	O	O
	IMB8		V			O	O	O	O	O	O	O	O	O	O	O
	IMV6[3]		D			O	O	O	O	O	O	O	O	O	O	O
	IMV5[2,3]		C			3,700	3,900	4,100	4,300	4,600	6,000	9,000	11,500	13,500	18,000	21,850
Mountings acc. to EN 50347, DIN 42948						**FF165 A 200**	**FF165 A 200**	**FF215 A 250**	**FF215 A 250**	**FF265 A 300**	**FF300 A 350**	**FF300 A 350**	**FF350 A 400**	**FF400 A 450**	**FF500 A 550**	**FF500 A 550**
	IMB5[1]		F			4,000	5,000	7,000	7,500	9,000	15,000	20,000	25,000	34,000	50,000	65,000
	IMV1[2,3]		G			5,300	6,300	10,000	10,500	11,500	20,000	25,000	30,000	39,500	54,500	70,000
	IMV3[3]		H			5,300	6,300	10,000	10,500	11,500	20,000	25,000	30,000	39,500	54,500	70,000
	IMB35		J			5,300	6,300	10,000	10,500	11,500	20,000	25,000	36,000	39,500	54,500	70,000
	IMV15[2,3]		W			7,300	8,300	10,000	10,500	11,500	20,000	26,000	36,000	39,500	54,500	70,000
	IMV35[1,3]		Y			5,300	6,300	10,000	10,500	11,500	20,000	25,000	36,000	39,500	54,500	70,000
Mountings acc. to EN 50347, DIN 42948						**FT100 C 120**	**FT115 C 140**	**FT130 C 160**	**FT130 C 160**	**FT165 C 200**						
	IMB14[1,3]		K			5,300	6,300	10,000	10,500	11,500	Not Available					
	IMV19[1,3]		L			5,300	6,300	10,000	10,500	11,500	Not Available					
	IMV18[2,3]		M			5,300	6,300	10,000	10,500	11,500	Not Available					
	IMB34[1,3]		N			5,300	6,300	10,000	10,500	11,500	Not Available					

□ Standard Version
O Without additional charges.

Note:

As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected.

@ Voltage code 9-0 in position 12-13 requires additional order code M1Y along with plain text mentioning voltage, frequency & kW.

$ Suitable for Grid operation only.

1) For DE shaft facing downward, Canopy is mandatory. please select option code Z, Z=H00 and add the price accordingly.

2) For DE shaft facing downward, Canopy is mandatory and same is included.

3) Double shaft extension (-Z, Z=L05, Y59) is not possible.

In cases where the DE shaft points upward, an appropriate cover must be installed to prevent small objects from falling into the fan guard (refer to IEC/EN 60079-0). This cover must not obstruct the cooling airflow.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Selection & Ordering codes for 1MB7

MLFB Position	Voltage code		Construction code	Winding Protection code	Terminal Box code	Incremental LP in INR										
	12th & 13th	Short code	14th	15th	16th	80	90	100	112	132	160	180	200	225	250	280
1MB7563 - □□□	■ - ■□□□		□ - □■□□	□ - □□■□	□ - □□□■											
Winding Protection (Certified line bushing is mandatory for Frame 100 onward, please refer SPC for more information)																
Without protection			A			□	□	□	□	□	□	□	□	□	□	□
3x PTC thermistors for tripping			B			11,300	11,300	11,300	11,300	11,300	13,000	13,000	13,000	13,000	15,000	15,000
6x PTC thermistors - 3x for alarm and 3x for tripping			C			22,600	22,600	22,600	22,600	22,600	26,000	26,000	26,000	26,000	30,000	30,000
3x PT100 resistance thermometers in stator winding - 2 wire			H			40,000	40,000	40,000	40,000	40,000	45,000	45,000	45,000	45,000	50,000	50,000
6x PT100 resistance thermometers in stator winding - 2 wire			J			Not Available					90,000	90,000	90,000	90,000	100,000	100,000
3x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 2 wire			B	Q60		51,300	51,300	51,300	51,300	51,300	58,000	58,000	58,000	58,000	65,000	65,000
3x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 2 wire			B	Q61		Not Available					103,000	103,000	103,000	103,000	115,000	115,000
6x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 2 wire			C	Q60		62,600	62,600	62,600	62,600	62,600	71,000	71,000	71,000	71,000	80,000	80,000
6x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 2 wire			C	Q61		Not Available					116,000	116,000	116,000	116,000	130,000	130,000
Embedded temperature sensor- PT1000			K								15,000	15,000	15,000	15,000	17,000	17,000
2x Embedded temperature sensor- PT1000			L								30,000	30,000	30,000	30,000	34,000	34,000
3x PTC thermistors for tripping + Embedded temperature sensor- PT1000			B	Q35							28,000	28,000	28,000	28,000	32,000	32,000
3x PTC thermistors for tripping + 2x Embedded temperature sensor- PT1000			B	Q36							43,000	43,000	43,000	43,000	49,000	49,000
6x PTC thermistors for tripping + Embedded temperature sensor- PT1000			C	Q35							41,000	41,000	41,000	41,000	47,000	47,000
6x PTC thermistors for tripping + 2x Embedded temperature sensor- PT1000			C	Q36							56,000	56,000	56,000	56,000	64,000	64,000
3x PT100 resistance thermometers in stator winding - 3 wire			Q								50,000	50,000	50,000	50,000	55,000	55,000
6x PT100 resistance thermometers in stator winding - 3 wire			R								100,000	100,000	100,000	100,000	110,000	110,000
3x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 3 wire			B	Q63							63.000	63.000	63.000	63.000	70,000	70,000
3x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 3 wire			B	Q64							113,000	113,000	113,000	113,000	125,000	125,000
6x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 3 wire			C	Q63							76,000	76,000	76,000	76,000	85,000	85,000
6x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 3 wire			C	Q64							126,000	126,000	126,000	126,000	140,000	140,000
Certified line bushing for internal accessories - Small				R02		Not Available		47,950	47,950	47,950	55,200	55,200	56,300	56,300	63,800	63,800
Certified line bushing for internal accessories - Medium				R03				67,400	67,400	67,400	79,300	79,300	80,850	80,850	91,620	91,620
Certified line bushing for internal accessories - Large				R04				170,300	170,300	170,300	200,340	200,340	204,270	204,270	231,500	231,500
Terminal Box Position																
Terminal Box on TOP					4	□	□	□	□	□	□	□	□	□	□	□
Mains Terminal box on RHS as viewed from DE					5	NA	5,000	7,500	8,500	10,000	20,000	20,000	25,000	30,000	37,500	40,000
Mains Terminal box on LHS as viewed from DE					6	NA	5,000	7,500	8,500	10,000	20,000	20,000	25,000	30,000	37,500	40,000

Voltage Code (Specified in MLFB Positions 12 & 13)

Table 9.1

Frequency 50Hz

Position 12 & 13	Connection		Short Code
	Δ	Y	
90	220VΔ	-	M1Y
90	230VΔ	-	M1Y
90	240VΔ	-	M1Y
90	360VΔ	-	M1Y
90	440VΔ	-	M1Y
90	460VΔ	-	M1Y
90	480VΔ	-	M1Y
90	525VΔ	-	M1Y
90	-	660VY	M1Y
90	-	690VY	M1Y
90	Any other voltage		M1Y

Notes:

□ Standard Version

Voltage code 9-0 in position 12-13 requires additional order code M1Y along with plain text mentioning voltage, frequency & kW.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1MB7

Options (Non-standard features / Accessories)													
Sr. No.	Description	Z- Code	Remarks	Note	Incremental LP in INR								
					80	90	100	112	132	160	180	200	225	250	280
Dust protected version															
1	Additional for dust Ex tc - Zone 22 (Without PESO marking)	B30			200	200	200	200	200	500	500	500	500	1,000	1,000
2	Additional for dust Ex tb - Zone 21 (Without PESO marking)	B32			200	200	200	200	200	500	500	500	500	1,000	1,000
Bearing protection															
3	2x PT100 screw-in resistance thermometers (2 wire) for rolling-contact bearings [Simplex 2 wire type]	Q72	Certified line bushing is mandatory for Frame 100 onward, please refer SPC for more information		Not Available					40,000	40,000	40,000	40,000	80,000	80,000
4	2x PT100 screw-in resistance thermometers (3 wire) for rolling-contact bearings [Simplex 3 wire type]	Q67			Not Available					45,000	45,000	45,000	45,000	85,000	85,000
5	2x PT100 double screw-in resistance thermometers (3 wire) for rolling-contact bearings [Duplex 2 wire type]	Q68			Not Available					50,000	50,000	50,000	50,000	90,000	90,000
Connection and Connection Box															
6	External Grounding (Earthing) Terminal on motor feet				□	□	□	□	□	□	□	□	□	□	□
7	Second external grounding (earthing) terminal on motor feet				□	□	□	□	□	□	□	□	□	□	□
8	Rotation of the mains terminal box through 90°, entry from DE	R10			O	O	O	O	O	O	O	O	O	O	O
9	Rotation of the mains terminal box through 90°, entry from NDE	R11			O	O	O	O	O	O	O	O	O	O	O
10	Rotation of mains terminal box through 180°	R12			O	O	O	O	O	O	O	O	O	O	O
11	Auxiliary box on RHS of power cable Entry	R49			Not Available					45,000	45,000	47,100	47,100	50,750	50,750
12	Auxiliary box on LHS of power cable Entry	R55			Not Available					45,000	45,000	47,100	47,100	50,750	50,750
13	Auxiliary box on rear of power cable Entry	R56			Not Available					45,000	45,000	47,100	47,100	50,750	50,750
14	Removable cable entry plate				Not Available							□	□	□	□
15	Cable end box extension				□	□	□	□	□	□	□	□	□	□	□
16	Mains Terminal box - Cast Iron				□	□	□	□	□	□	□	□	□	□	□
17	Non-standard threaded through hole (metric)	Y61			On Enquiry										
Winding & Insulation															
18	Temperature class 155 (F), utilized acc. to 155 (F), with service factor (SF)	N01			On Enquiry										
19	Temperature class 180 (H) at rated output	N10			On Enquiry										
Environmental protection															
20	Anti-corrosive treatment for winding overhang	N22			6,000	7,000	8,000	8,000	8,000	10,000	10,000	12,000	15,000	27,500	35,000
21	Increased air humidity / temperature (30g to 60g of water /m³ of air)	N30			On Enquiry									✓	✓
22	Increased air humidity / temperature (60g to 100g of water /m³ of air)	N31			On Enquiry									✓	✓
23	Sea worthy packaging	B12			30,000	30,000	35,000	35,000	35,000	50,000	60,000	75,000	100,000	120,000	135,000
Motors for Converter Fed Operation															
24	VFD Fed motor with power data on PWM converter on aux. motor name plate Class F utilized to B on nameplate kW at VFD supply	B43	PTCs are mandatory, please refer SPC for more information		500	500	500	500	500	600	600	600	600	700	700
25	VFD Fed motor with power data on PWM converter on aux. motor name plate Class F utilized to F on nameplate kW at VFD supply	B44			500	500	500	500	500	600	600	600	600	700	700
26	Insulated Bearing at NDE	L53			Not Available					On Enquiry			200,000	225,000	225,000

Notes:
□ Standard Version
O Without additional charges.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1MB7

Options (Non-standard features / Accessories)													
Sr. No.	Description	Z- Code	Remarks	Note	Incremental LP in INR								
					80	90	100	112	132	160	180	200	225	250	280
Heating & Ventilation															
27	Metal external fan (Metal Fan [no AL])				□	□	□	□	□	□	□	□	□	□	□
28	Fan cover with Canopy	H00			5,500	6,000	6,500	7,000	7,500	10,000	10,000	15,000	15,000	20,000	25,000
29	Anti-condensation heaters for 230 V	Q02	Certified line bushing is mandatory for Frame 100 onward, please refer SPC for more information		6,500	6,500	6,500	7,500	7,500	11,000	11,000	13,500	13,500	17,500	17,500
30	Anti-condensation heaters for 115 V	Q03			6,500	6,500	6,500	7,500	7,500	11,000	11,000	13,500	13,500	17,500	17,500
31	Anti-condensation heaters for 240 V	Q07			6,500	6,500	6,500	7,500	7,500	11,000	11,000	13,500	13,500	17,500	17,500
32	Anti-condensation heaters for 120 V	Q08			6,500	6,500	6,500	7,500	7,500	11,000	11,000	13,500	13,500	17,500	17,500
Colour & Paint Finish															
Paint Shades (If no paint shade is selected, then RAL 7030 is the standard)															
33	Standard Paint Shade - RAL 7030 (Epoxy) - 90µ				□	□	□	□	□	□	□	□	□	□	□
34	Standard RAL paint shades other than RAL7030	Y53	Specify RAL shade code in plain text		3,000	4,000	5,000	6,000	7,000	12,500	12,500	20,000	20,000	35,000	45,000
35	Special RAL paint shades or shades as per IS:5	Y56	Specify RAL/IS shade code in plain text		3,000	4,000	5,000	6,000	7,000	12,500	12,500	20,000	20,000	35,000	45,000
Notes: 1. Y53 or Y56 (only one at a time) can be combined with any of the paint finishes indicated in 36 to 39. Below. Just add the appropriate price from 34 or 35.															
36	Epoxy based Paint - Special paint thickness	S07+Y57(120)	DFT 120µ [Y57 (120)]		7,500	7,500	10,000	12,500	17,500	27,500	27,500	50,000	50,000	100,000	130,000
37	Special finish for use onshore sea air resistant	S03+S06+ Y57+H07	180µ [Y57(180)]		35,000	35,000	40,000	45,000	50,000	70,000	75,000	90,000	100,000	125,000	230,000
38	Special finish for use onshore sea air resistant	S03+S06+ Y57+H07	240µ [Y57(240)]		40,000	40,000	45,000	50,000	55,000	75,000	80,000	95,000	105,000	130,000	230,000
39	Special paint thickness for offshore use	S04+S06+ Y57+H07	295µ [Y57(295)]		45,000	45,000	50,000	55,000	60,000	80,000	85,000	100,000	110,000	135,000	240,000

Notes: 1. Paint thickness needs to be specified by means of plain text irrespective of whether it is standard or special.
2. S06 - Final Coat Polyurethane is mandatory with S03 or S04. S06 is not possible to be ordered separately.
3. H07 - Non-rusting external hardware is mandatory with S03 or S04. H07 can be separately order even without S03 or S04. The separate price for H07 is available against the option at another location.

Encoders															
40	Prepared for any make Cylindrical Hollow Shaft Encoder	S04+S06+ Y57+H07			On Enquiry										
Mechanical Design & Degrees of Protection															
41	External screws, bolts and unpainted materials made of stainless steel (V4A)	H06			3,500	3,500	4,000	4,500	5,000	7,500	8,000	12,000	15,000	18,000	25,000
42	Stainless steel fasteners (external)	H07			3,500	3,500	4,000	4,500	5,000	7,500	8,000	12,000	15,000	18,000	25,000
43	IP66 degree of protection				□	□	□	□	□	□	□	□	□	□	□
Bearing & Lubrication															
44	Measuring nipple for SPM shock pulse measurement for bearing inspection	Q01			Not Available				10,000	12,000	12,000	15,000	15,000	20,000	25,000
45	Locating bearing, DE				□	□	□	□	□	□	□	□	□	□	□
46	Bearing design for increased cantilever forces	L22	NU (Cylindrical Roller) Brgs		Not Available					25,000	30,000	40,000	61,000	100,000	110,000
47	Flat button-head regreasing device	L23			Not Available					On Enquiry					
48	Conical head regreasing device	L19			Not Available					23,500	24,900	27,750	48,300	74,000	□
Balance & Vibration Quality															
49	Vibration Severity Level A				□	□	□	□	□	□	□	□	□	□	□
50	Vibration Severity Level B	L00			On Enquiry										
51	Balancing without key	L01			2,000	2,000	4,000	4,000	4,000	15,000	15,000	25,000	25,000	30,000	30,000
52	Full key balancing	L02			2,000	2,000	4,000	4,000	4,000	15,000	15,000	25,000	25,000	30,000	30,000

Notes:
□ Standard Version
O Without additional charges.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1MB7

Options (Non-standard features / Accessories)													
Sr. No.	Description	Z- Code	Remarks	Note	Incremental LP in INR								
					80	90	100	112	132	160	180	200	225	250	280
Shaft & Rotor															
53	Standard Shaft Extension (DE), without feather keyway	L04			2,000	2,000	4,000	4,000	4,000	15,000	15,000	25,000	25,000	30,000	35,000
54	Standard Double Shaft Extension (SDSE)	L05			5,000	6,000	7,000	8,000	10,000	12,500	15,000	20,000	25,000	35,000	40,000
55	Shaft material - Stainless steel	L06			On Enquiry										
56	Non-standard cylindrical shaft extension - DE	Y58		1	On Enquiry										
57	Non-standard cylindrical shaft extension - NDE	Y59		1	On Enquiry										
58	Special shaft steel	Y60		1	On Enquiry										
59	Oil Tight shaft	H23	Only for Flange motors and gear box assembly		Not Available					2,000	2,000	3,000	4,000	8,000	10,000
Rating Plate & Extra Rating Plate															
60	Stainless steel nameplate				□	□	□	□	□	□	□	□	□	□	□
61	Direction indicating arrow - Clockwise	L10			1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,500	2,500	4,500	5,500
62	Direction indicating arrow - Counter-clockwise	L11			1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,500	2,500	4,500	5,500
63	Extra rating plate with deviating rating plate data	Y80			1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,500	2,500	4,500	5,500
64	Extra rating plate with identification code - Auxilliary nameplate	Y82			1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,500	2,500	4,500	5,500
65	Second rating plate, supplied loose	M10			1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,500	2,500	4,500	5,500
66	Ex db motor nameplate with IECEx marking	D37			1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,500	2,500	4,500	5,500
Testing Charges															
67	Witnessing of Routine Test	B65			27,500	27,500	27,500	27,500	27,500	39,800	39,800	39,800	39,800	80,650	97,000
68	Visual Inspection (Includes Dimension Measurement and paint shade and thickness)	B66			4,050	4,050	4,050	4,050	4,050	10,350	10,350	11,100	11,100	20,150	20,150
69	Combined Testing of Motor with VFD	Y67		2	Contact Sales office										
70	Type test as per IS 15999	B83			100,000	100,000	100,000	100,000	100,000	150,000	150,000	175,000	175,000	200,000	220,000
71	Noise measurement without spectrum analysis with acceptance	B70			Contact Sales office										
72	Noise measurement with spectrum analysis with acceptance	B72			Contact Sales office										

Notes:

□ Standard Version

O Without additional charges.

[1] Prior quotation from works necessary

[2] VFD, Power analyzer and trained operator to be arranged by customer at given location for KLPL / ERTL / PESO certification

Extra Price Calculations

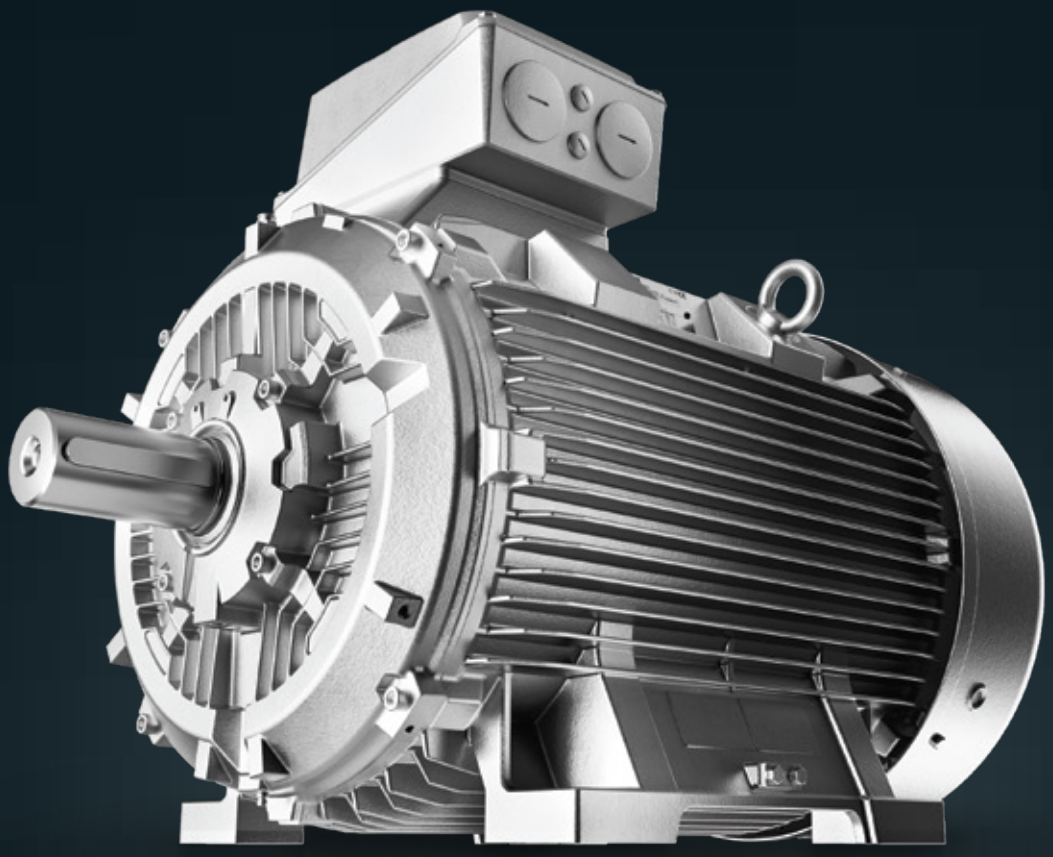
Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

INNOMOTICS

Ask for motors with IVIC-C

(Stress category C, Severe)

Increased reliability with
Partial Discharge free operation

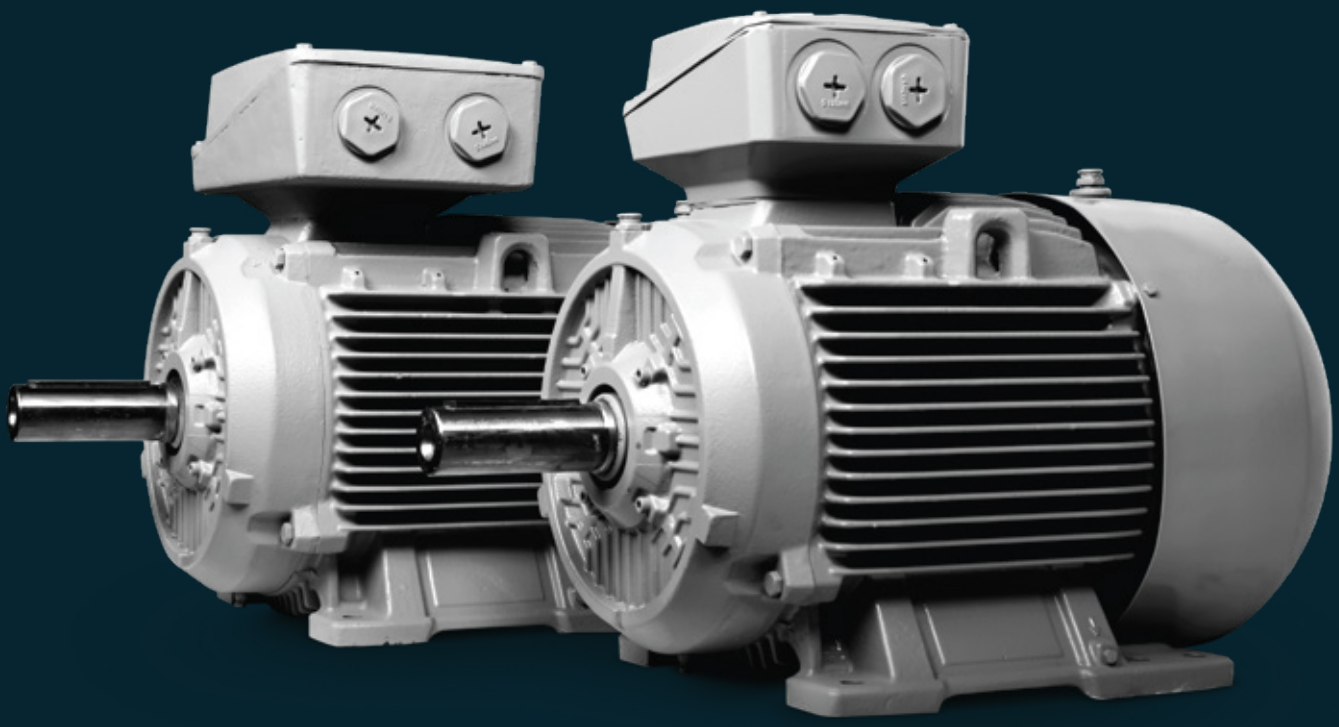


- **Available for complete range.**
- **Enhanced Reliability.**
- **Stress category "C" as per latest standard – IEC 60034-18-41 / IS 15999-18-41.**

INNOMOTICS

INNOMOTICS MOVES! 1LE7 IE4 Efficiency Class Motors

Driving the sustainability
with Induction Motor Technology



- **Suitable for line fed and VFD fed supply.**
- **Sturdily built to handle stresses during a DOL start.**

Cast iron series 1LE7-IE4

New CE #

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.25	0.35	71	-	1LE7604-0CA22-3AA4	32,200	●	▲
0.37	0.5	71	-	1LE7504-0CA22-3AA4	32,200	●	▲
0.55	0.75	71	-	1LE7504-0CA32-3AA4	36,400	●	▲
0.75	1	80	-	1LE7504-0DA22-3AA4	39,350	●	▲
1.1	1.5	80	-	1LE7504-0DA32-3AA4	46,850	●	▲
1.5	2	90S	**S** & L	1LE7504-0EA02-3AA4	48,950	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7504-0EA43-5AA4	58,850	●	▲
3.7	5	100L	-	1LE7504-1AA53-5AA4	96,850	●	▲
4.0	**5.5**	**112M**	**-**	**1LE7504-1BA23-5AA4-Z, Z=B59**	**129,300**	■	■
5.5	7.5	132S	**S** & M	1LE7504-1CA03-5AA4	143,700	●	▲
7.5	10	132S	**S** & M	1LE7504-1CA13-5AA4	157,100	●	▲
11	15	160M	**M** & L	1LE7504-1DA23-5AA4	283,600	●	▲
15	20	160M	**M** & L	1LE7504-1DA33-5AA4	326,250	●	▲
18.5	25	160L	M & **L**	1LE7504-1DA43-5AA4	403,000	●	▲
22	30	180M	**M** & L	1LE7504-1EA23-5AA4	454,400	●	▲
30	40	200L	-	1LE7504-2AA43-5AA4	632,850	●	▲
37	50	200L	-	1LE7504-2AA53-5AA4	757,800	●	▲
45	60	225M	S & **M**	1LE7504-2BA23-5AA4	974,700	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7604-0CB22-3AA4	34,150	●	▲
0.25	0.35	71	-	1LE7504-0CB22-3AA4	34,150	●	▲
0.37	0.5	71	-	1LE7504-0CB32-3AA4	35,050	●	▲
0.55	0.75	80	-	1LE7504-0DB22-3AA4	41,800	●	▲
0.75	1	80	-	1LE7504-0DB32-3AA4	47,100	●	▲
1.1	1.5	90S	**S** & L	1LE7504-0EB02-3AA4	52,350	●	▲
1.5	2	90L	S & **L**	1LE7504-0EB42-3AA4	57,950	●	▲
415VΔ 50Hz							
2.2	3	100L	-	1LE7504-1AB43-5AA4	82,550	●	▲
3.7	5	112M	-	1LE7504-1BB23-5AA4	100,400	●	▲
5.5	7.5	132S	**S** & M	1LE7504-1CB03-5AA4	148,800	●	▲
7.5	10	132M	S & **M**	1LE7504-1CB23-5AA4	169,850	●	▲
11	15	160M	**M** & L	1LE7504-1DB23-5AA4	330,400	●	▲
15	20	160L	M & **L**	1LE7504-1DB43-5AA4	414,100	●	▲
18.5	25	180M	**M** & L	1LE7504-1EB23-5AA4	517,050	●	▲
22	30	180L	M & **L**	1LE7504-1EB43-5AA4	592,350	●	▲
30	40	200L	M & **L**	1LE7504-2AB53-5AA4	735,500	●	▲
37	50	225S	**S** & M	1LE7504-2BB03-5AA4	909,750	●	▲
45	60	225M	S & **M**	1LE7504-2BB23-5AA4	981,400	●	▲

+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

Please contact nearest sales office for motors conforming to CE marking.

Increased Power Line Motor are highlighted with MLFBs

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

■ Please check with nearest sales office for Documents

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7504-0CC22-3AA4	37,100	●	▲
0.25	0.35	71	-	1LE7504-0CC32-3AA4	37,700	●	▲
0.37	0.5	80	-	1LE7504-0DC22-3AA4	41,650	●	▲
0.55	0.75	80	-	1LE7504-0DC32-3AA4	45,300	●	▲
0.75	1	90S	**S** & L	1LE7504-0EC02-3AA4	50,200	●	▲
1.1	1.5	90L	S & **L**	1LE7504-0EC42-3AA4	62,050	●	▲
1.5	2	100L	-	1LE7504-1AC42-3AA4	84,250	●	▲
415VΔ 50Hz							
2.2	3	112M	-	1LE7504-1BC23-5AA4	99,350	●	▲
3.7	5	132S	**S** & M	1LE7504-1CC13-5AA4	151,950	●	▲
5.5	7.5	132M	S & **M**	1LE7504-1CC33-5AA4	175,250	●	▲
7.5	10	160M	**M** & L	1LE7504-1DC23-5AA4	298,750	●	▲
11	15	160L	M & **L**	1LE7504-1DC43-5AA4	374,150	●	▲
15	20	180L	M & **L**	1LE7504-1EC43-5AA4	455,750	●	▲
18.5	25	200L	-	1LE7504-2AC43-5AA4	635,250	●	▲
22	30	200L	-	1LE7504-2AC53-5AA4	677,100	●	▲
30	40	225M	S & **M**	1LE7504-2BC23-5AA4	908,250	●	▲

Cast iron series 1LE7-IE4

CE #

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7504-2CA23-5AA4	1,378,200	●	▲
75	100	280S	**S** & M	1LE7504-2DA03-5AA4	1,707,450	●	▲
90	120	280M	S & **M**	1LE7504-2DA23-5AA4	1,959,100	●	▲
110	150	315S	**S,** M & L	1LE7504-3AA03-5AA4	2,596,900	●	▲
132	180	315M	**M** & L	1LE7504-3AA23-5AA4	2,839,900	●	▲
160	215	315L	M & **L**	1LE7504-3AA43-5AA4	3,117,550	●	▲
200	270	315L	M & **L**	1LE7504-3AA63-5AA4	3,647,850	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7504-2CB23-5AA4	1,389,550	●	▲
75	100	280S	**S** & M	1LE7504-2DB03-5AA4	1,729,650	●	▲
90	120	280M	S & **M**	1LE7504-2DB23-5AA4	1,958,400	●	▲
110	150	315S	**S,** M & L	1LE7504-3AB03-5AA4	2,454,000	●	▲
132	180	315M	**M** & L	1LE7504-3AB23-5AA4	2,617,450	●	▲
160	215	315L	M & **L**	1LE7504-3AB43-5AA4	3,061,850	●	▲
200	270	315L	M & **L**	1LE7504-3AB63-5AA4	3,473,900	●	▲

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
37	50	250M	-	1LE7504-2CC23-5AA4	1,262,800	●	▲
45	60	280S	**S** & M	1LE7504-2DC03-5AA4	1,553,800	●	▲
55	75	280M	S & **M**	1LE7504-2DC23-5AA4	1,698,450	●	▲
75	100	315S	**S,** M & L	1LE7504-3AC03-5AA4	2,236,550	●	▲
90	120	315M	**M** & L	1LE7504-3AC23-5AA4	2,515,600	●	▲
110	150	315L	M & **L**	1LE7504-3AC43-5AA4	2,805,700	●	▲
132	180	315L	M & **L**	1LE7504-3AC63-5AA4	3,186,000	●	▲

Evaluate

Easily calculate potential CO_2 reductions, energy savings and the payback time

Cast iron series 1LE7-IE3

CE #

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.25	0.35	71	-	1LE7603-0CA22-3AA4	26,750	●	▲
0.37	0.5	71	-	1LE7503-0CA22-3AA4	26,750	●	▲
0.55	0.75	71	-	1LE7503-0CA32-3AA4	30,200	●	▲
0.75	1	80	-	1LE7503-0DA22-3AA4	33,600	●	▲
1.1	1.5	80	-	1LE7503-0DA32-3AA4	38,300	●	▲
1.5	2	90S	**S** & L	1LE7503-0EA02-3AA4	45,300	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7503-0EA43-5AA4	52,300	●	▲
3.7	5	100L	-	1LE7503-1AA53-5AA4	74,950	●	▲
5.5	7.5	132S	**S** & M	1LE7503-1CA03-5AA4	108,900	●	▲
7.5	10	132S	**S** & M	1LE7503-1CA13-5AA4	119,100	●	▲
11	15	160M	**M** & L	1LE7503-1DA23-5AA4	254,050	●	▲
15	20	160M	**M** & L	1LE7503-1DA33-5AA4	279,250	●	▲
18.5	25	160L	M & **L**	1LE7503-1DA43-5AA4	332,250	●	▲
22	30	180M	**M** & L	1LE7503-1EA23-5AA4	357,450	●	▲
30	40	200L	-	1LE7503-2AA43-5AA4	489,750	●	▲
37	50	200L	-	1LE7503-2AA53-5AA4	569,400	●	▲
45	60	225M	S & **M**	1LE7503-2BA23-5AA4	714,900	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7603-0CB22-3AA4	27,650	●	▲
0.25	0.35	71	-	1LE7503-0CB22-3AA4	27,650	●	▲
0.37	0.5	71	-	1LE7503-0CB32-3AA4	28,850	●	▲
0.55	0.75	80	-	1LE7503-0DB22-3AA4	33,850	●	▲
0.75	1	80	-	1LE7503-0DB32-3AA4	41,400	●	▲
1.1	1.5	90S	**S** & L	1LE7503-0EB02-3AA4	48,650	●	▲
1.5	2	90L	S & **L**	1LE7503-0EB42-3AA4	52,800	●	▲
415VΔ 50Hz							
2.2	3	100L	-	1LE7503-1AB43-5AA4	68,050	●	▲
3.7	5	112M	-	1LE7503-1BB23-5AA4	86,000	●	▲
5.5	7.5	132S	**S** & M	1LE7503-1CB03-5AA4	124,100	●	▲
7.5	10	132M	S & **M**	1LE7503-1CB23-5AA4	142,200	●	▲
11	15	160M	**M** & L	1LE7503-1DB23-5AA4	248,400	●	▲
15	20	160L	M & **L**	1LE7503-1DB43-5AA4	294,400	●	▲
18.5	25	180M	**M** & L	1LE7503-1EB23-5AA4	361,100	●	▲
22	30	180L	M & **L**	1LE7503-1EB43-5AA4	386,400	●	▲
30	40	200L	-	1LE7503-2AB53-5AA4	537,800	●	▲
37	50	225S	**S** & M	1LE7503-2BB03-5AA4	703,200	●	▲
45	60	225M	S & **M**	1LE7503-2BB23-5AA4	772,900	●	▲

+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

All 1LE76 motors which are delivered on or after 1st July 2021 will not carry CE mark.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

Cast iron series 1LE7-IE3

CE #

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7503-0CC22-3AA4	30,200	●	▲
0.25	0.35	71	-	1LE7503-0CC32-3AA4	31,050	●	▲
0.37	0.5	80	-	1LE7503-0DC22-3AA4	34,300	●	▲
0.55	0.75	80	-	1LE7503-0DC32-3AA4	38,200	●	▲
0.75	1	90S	**S** & L	1LE7503-0EC02-3AA4	45,850	●	▲
1.1	1.5	90L	S & **L**	1LE7503-0EC42-3AA4	54,300	●	▲
1.5	2	100L	-	1LE7503-1AC42-3AA4	68,700	●	▲
415VΔ 50Hz							
2.2	3	112M	-	1LE7503-1BC23-5AA4	80,250	●	▲
3.7	5	132S	**S** & M	1LE7503-1CC13-5AA4	114,650	●	▲
5.5	7.5	132M	S & **M**	1LE7503-1CC33-5AA4	140,200	●	▲
7.5	10	160M	**M** & L	1LE7503-1DC23-5AA4	235,950	●	▲
11	15	160L	M & **L**	1LE7503-1DC43-5AA4	293,950	●	▲
15	20	180L	M & **L**	1LE7503-1EC43-5AA4	367,000	●	▲
18.5	25	200L	-	1LE7503-2AC43-5AA4	468,800	●	▲
22	30	200L	-	1LE7503-2AC53-5AA4	518,200	●	▲
30	40	225M	S & **M**	1LE7503-2BC23-5AA4	700,350	●	▲

8 - Pole 750 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.12	0.2	71	-	1LE7503-0CD32-3AA4	32,200	●	▲
0.18	0.25	80	-	1LE7503-0DD22-3AA4	34,550	●	▲
0.25	0.35	80	-	1LE7503-0DD32-3AA4	38,450	●	▲
0.37	0.5	90S	**S** & L	1LE7503-0ED02-3AA4	46,050	●	▲
0.55	0.75	90L	S & **L**	1LE7503-0ED42-3AA4	54,150	●	▲
0.75	1	100L	-	1LE7503-1AD42-3AA4	58,650	●	▲
1.1	1.5	100L	-	1LE7503-1AD52-3AA4	63,900	●	▲
1.5	2	112M	-	1LE7503-1BD22-3AA4	89,050	●	▲
415VΔ 50Hz							
2.2	3	132S	**S** & M	1LE7503-1CD03-5AA4	111,000	●	▲
3.7	5	160M	**M** & L	1LE7503-1DD23-5AA4	245,050	●	▲
5.5	7.5	160M	**M** & L	1LE7503-1DD33-5AA4	276,050	●	▲
7.5	10	160L	M & **L**	1LE7503-1DD43-5AA4	297,800	●	▲
11	15	180L	M & **L**	1LE7503-1ED43-5AA4	409,150	●	▲
15	20	200L	-	1LE7503-2AD53-5AA4	532,400	●	▲
18.5	25	225S	**S** & M	1LE7503-2BD03-5AA4	618,850	●	▲
22	30	225M	S & **M**	1LE7503-2BD23-5AA4	719,100	●	▲

+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

All 1LE76 motors which are delivered on or after 1st July 2021 will not carry CE mark.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

Please contact nearest sales office for CE marking on 8 Pole motors up to Frame Size 225.

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

Cast iron series 1LE7-IE3

CE #

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7503-2CA23-5AA4	1,079,550	●	▲
75	100	280S	**S** & M	1LE7503-2DA03-5AA4	1,405,300	●	▲
90	120	280M	S & **M**	1LE7503-2DA23-5AA4	1,582,300	●	▲
110	150	315S	**S** & M	1LE7503-3AA03-5AA4	1,958,950	●	▲
132	180	315M	**M** & L	1LE7503-3AA23-5AA4	2,359,750	●	▲
160	215	315L	M & **L**	1LE7503-3AA43-5AA4	2,637,900	●	▲
200*	270	315L	M & **L**	1LE7503-3AA63-5AA4	2,974,500	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7503-2CB23-5AA4	1,121,950	●	▲
75	100	280S	**S** & M	1LE7503-2DB03-5AA4	1,362,250	●	▲
90	120	280M	S & **M**	1LE7503-2DB23-5AA4	1,580,000	●	▲
110	150	315S	**S** & M	1LE7503-3AB03-5AA4	1,886,300	●	▲
132	180	315M	**M** & L	1LE7503-3AB23-5AA4	2,111,650	●	▲
160	215	315L	M & **L**	1LE7503-3AB43-5AA4	2,424,050	●	▲
200	270	315L	M & **L**	1LE7503-3AB63-5AA4	2,942,800	●	▲

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
37	50	250M	-	1LE7503-2CC23-5AA4	1,013,950	●	▲
45	60	280S	**S** & M	1LE7503-2DC03-5AA4	1,206,700	●	▲
55	75	280M	S & **M**	1LE7503-2DC23-5AA4	1,371,800	●	▲
75	100	315S	**S** & M	1LE7503-3AC03-5AA4	1,687,050	●	▲
90	120	315M	**M** & L	1LE7503-3AC23-5AA4	1,991,400	●	▲
110	150	315L	M & **L**	1LE7503-3AC43-5AA4	2,263,400	●	▲
132	180	315L	M & **L**	1LE7503-3AC63-5AA4	2,597,900	●	▲

8 - Pole 750 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
30	40	250M	-	1LE7503-2CD23-5AA4	1,009,400	●	▲
37	50	280S	**S** & M	1LE7503-2DD03-5AA4	1,285,750	●	▲
45	60	280M	S & **M**	1LE7503-2DD23-5AA4	1,491,750	●	▲
55	75	315S	**S** & M	1LE7503-3AD03-5AA4	1,653,900	●	▲
75	100	315M	**M** & L	1LE7503-3AD23-5AA4	2,061,050	●	▲
90	120	315L	M & **L**	1LE7503-3AD43-5AA4	2,247,250	●	▲
110	150	315L	M & **L**	1LE7503-3AD53-5AA4	2,461,750	●	▲

* Temp rise limited to 75K by resistance method.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

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● Datasheet

▲ GAD

Ratings 75 - 200kW (both inclusive) in 2P, 4P & 6P are not covered under ecodesign requirement of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023 and therefore will not carry CE marking.

Cast iron series
Increased Power Line 1LE7 - IE3

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz					
4.0	5.5	112M	-	1LE7503-1BA23-5AA4-Z, Z=B59	92,000
5.5	7.5	112M	-	1LE7503-1BA73-5AA4-Z, Z=B59	98,000
9.3	12.5	132S	**S** & M	1LE7503-1CA79-0AA4 M1Y	168,000
11	15	132S	**S** & M	1LE7503-1CA73-5AA4	177,700
45	60	200L	-	1LE7503-2AA73-5AA4	626,300
75	100	250M	-	1LE7503-2CA73-5AA4	1,243,550
90	120	280M	-	1LE7503-2CA83-5AA4	1,333,800
110*	150	280M	S & **M**	1LE7503-2DA73-5AA4	1,704,750

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz					
4.0*	5.5	112M	-	1LE7503-1BB29-0AA4-Z, Z= M1Y+N02	101,795
9.3	12.5	132M	S & **M**	1LE7503-1CB79-0AA4 M1Y	184,930
37	50	200L	-	1LE7503-2AB73-5AA4	668,700
55*	75.0	225M	S & **M**	1LE7503-2BB73-5AA4	891,650
75	100	250M	-	1LE7503-2CB73-5AA4	1,289,700
110*	150	280M	S & **M**	1LE7503-2DB73-5AA4	1,700,550
132*	180	280M	S & **M**	1LE7503-2DB83-5AA4	1,791,650
225	300	315L	M & **L**	1LE7503-3AB73-5AA4	3,289,700
250	335	315L	M & **L**	1LE7503-3AB79-0AA4 M1Y^	3,433,400

As industry standard, above ratings are delta connected.

* Temp rise limited to F class.

^ Larger Terminal box (Option code : R50) mandatory

Please contact nearest sales office for documents.

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz					
75	100	280M	S & **M**	1LE7503-2DC73-5AA4	1,449,300
90	120	280M	S & **M**	1LE7503-2DC83-5AA4	1,706,950
160	215	315L	M & **L**	1LE7503-3AC73-5AA4	2,815,250
200	270	315L	M & **L**	1LE7503-3AC83-5AA4	3,064,850

Cast iron series 1LE7 - IE2

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.25	0.35	71	-	1LE7601-0CA22-3AA4#	22,950	●	▲
0.37	0.5	71	-	1LE7501-0CA22-3AA4#	22,950	●	▲
0.55	0.75	71	-	1LE7501-0CA32-3AA4#	24,600	●	▲
0.75	1	80	-	1LE7501-0DA22-3AA4	30,900	●	▲
1.1	1.5	80	-	1LE7501-0DA32-3AA4	31,450	●	▲
1.5	2	90S	**S** & L	1LE7501-0EA02-3AA4	39,850	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7501-0EA43-5AA4	46,650	●	▲
3.7	5	100L	-	1LE7501-1AA53-5AA4	62,000	●	▲
5.5	7.5	132S	**S** & M	1LE7501-1CA03-5AA4	96,700	●	▲
7.5	10	132S	**S** & M	1LE7501-1CA13-5AA4	104,850	●	▲
11	15	160M	**M** & L	1LE7501-1DA23-5AA4	219,550	●	▲
15	20	160M	**M** & L	1LE7501-1DA33-5AA4	244,800	●	▲
18.5	25	160L	M & **L**	1LE7501-1DA43-5AA4	282,150	●	▲
22	30	180M	**M** & L	1LE7501-1EA23-5AA4	329,000	●	▲
30	40	200L	-	1LE7501-2AA43-5AA4	446,850	●	▲
37	50	200L	-	1LE7501-2AA53-5AA4	501,650	●	▲
45	60	225M	S & **M**	1LE7501-2BA23-5AA4	645,200	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7601-0CB22-3AA4#	23,800	●	▲
0.25	0.35	71	-	1LE7501-0CB22-3AA4#	23,800	●	▲
0.37	0.5	71	-	1LE7501-0CB32-3AA4#	24,000	●	▲
0.55	0.75	80	-	1LE7501-0DB22-3AA4#	29,900	●	▲
0.75	1	80	-	1LE7501-0DB32-3AA4	32,100	●	▲
1.1	1.5	90S	**S** & L	1LE7501-0EB02-3AA4	40,950	●	▲
1.5	2	90L	S & **L**	1LE7501-0EB42-3AA4	45,450	●	▲
415VΔ 50Hz							
2.2	3	100L	-	1LE7501-1AB43-5AA4	56,400	●	▲
3.7	5	112M	-	1LE7501-1BB23-5AA4	71,050	●	▲
5.5	7.5	132S	**S** & M	1LE7501-1CB03-5AA4	95,300	●	▲
7.5	10	132M	S & **M**	1LE7501-1CB23-5AA4	112,700	●	▲
11	15	160M	**M** & L	1LE7501-1DB23-5AA4	205,750	●	▲
15	20	160L	M & **L**	1LE7501-1DB43-5AA4	239,250	●	▲
18.5	25	180M	**M** & L	1LE7501-1EB23-5AA4	318,200	●	▲
22	30	180L	M & **L**	1LE7501-1EB43-5AA4	339,100	●	▲
30	40	200L	-	1LE7501-2AB53-5AA4	472,900	●	▲
37	50	225S	**S** & M	1LE7501-2BB03-5AA4	574,150	●	▲
45	60	225M	S & **M**	1LE7501-2BB23-5AA4	642,250	●	▲

+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

All 1LE76 motors which are delivered on or after 1st July 2021 will not carry CE mark.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

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● Datasheet

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Ratings 0.75kW & above in IE2 are not covered under ecodesign requirement of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023 and therefore will not carry CE marking.

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7501-0CC22-3AA4#	26,700	●	▲
0.25	0.35	71	-	1LE7501-0CC32-3AA4#	27,100	●	▲
0.37	0.5	80	-	1LE7501-0DC22-3AA4#	30,950	●	▲
0.55	0.75	80	-	1LE7501-0DC32-3AA4#	32,950	●	▲
0.75	1	90S	**S** & L	1LE7501-0EC02-3AA4	42,200	●	▲
1.1	1.5	90L	S & **L**	1LE7501-0EC42-3AA4	49,750	●	▲
1.5	2	100L	-	1LE7501-1AC42-3AA4	60,050	●	▲
415VΔ 50Hz							
2.2	3	112M	-	1LE7501-1BC23-5AA4	73,850	●	▲
3.7	5	132S	**S** & M	1LE7501-1CC13-5AA4	105,850	●	▲
5.5	7.5	132M	S & **M**	1LE7501-1CC33-5AA4	124,900	●	▲
7.5	10	160M	**M** & L	1LE7501-1DC23-5AA4	204,650	●	▲
11	15	160L	M & **L**	1LE7501-1DC43-5AA4	242,800	●	▲
15	20	180L	M & **L**	1LE7501-1EC43-5AA4	331,550	●	▲
18.5	25	200L	-	1LE7501-2AC43-5AA4	412,850	●	▲
22	30	200L	-	1LE7501-2AC53-5AA4	448,300	●	▲
30	40	225M	S & **M**	1LE7501-2BC23-5AA4	600,800	●	▲

Cast iron series 1LE7-IE2

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, S1 duty, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7501-2CA23-5AA4	959,600	●	▲
75	100	280S	**S** & M	1LE7501-2DA03-5AA4	1,271,600	●	▲
90	120	280M	S & **M**	1LE7501-2DA23-5AA4	1,420,400	●	▲
110	150	315S	**S** & M	1LE7501-3AA03-5AA4	1,877,600	●	▲
132	180	315M	**M** & L	1LE7501-3AA23-5AA4	2,136,300	●	▲
160	215	315L	M & **L**	1LE7501-3AA43-5AA4	2,410,700	●	▲
200	270	315L	M & **L**	1LE7501-3AA63-5AA4	2,641,650	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7501-2CB23-5AA4	954,250	●	▲
75	100	280S	**S** & M	1LE7501-2DB03-5AA4	1,244,100	●	▲
90	120	280M	S & **M**	1LE7501-2DB23-5AA4	1,378,500	●	▲
110	150	315S	**S** & M	1LE7501-3AB03-5AA4	1,763,400	●	▲
132	180	315M	**M** & L	1LE7501-3AB23-5AA4	1,979,400	●	▲
160	215	315L	M & **L**	1LE7501-3AB43-5AA4	2,194,350	●	▲
200	270	315L	M & **L**	1LE7501-3AB63-5AA4	2,689,450	●	▲

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

Above ratings are not covered under ecodesign requirement of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023 and therefore will not carry CE marking.

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
37	50	250M	-	1LE7501-2CC23-5AA4	871,350	●	▲
45	60	280S	**S** & M	1LE7501-2DC03-5AA4	1,081,950	●	▲
55	75	280M	S & **M**	1LE7501-2DC23-5AA4	1,229,900	●	▲
75	100	315S	**S** & M	1LE7501-3AC03-5AA4	1,535,450	●	▲
90	120	315M	S & **M**	1LE7501-3AC23-5AA4	1,768,550	●	▲
110	150	315L	M & **L**	1LE7501-3AC43-5AA4	1,972,400	●	▲
132	180	315L	M & **L**	1LE7501-3AC63-5AA4	2,240,200	●	▲

Cast iron series
Increased Power Line 1LE7 - IE2

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
kW	HP				
415VΔ 50Hz					
4.0	5.5	112M	-	1LE7501-1BA23-5AA4-Z, Z=B59	78,900
5.5*	7.5	112M	-	1LE7501-1BA73-5AA4-Z, Z=B59	83,850
9.3	12.5	132S	**S** & M	1LE7501-1CA79-0AA4 M1Y	144,880
11	15	132S	**S** & M	1LE7501-1CA73-5AA4	158,700
22	30	160L	M & **L**	1LE7501-1DA73-5AA4	306,700
30	40	180M	**M** & L	1LE7501-1EA73-5AA4	410,850
37*	50	180M	**M** & L	1LE7501-1EA83-5AA4	476,100
45	60	200L	-	1LE7501-2AA73-5AA4	579,100
55	75	200L	-	1LE7501-2AA83-5AA4	696,250
55	75	225M	S & **M**	1LE7501-2BA73-5AA4	756,850
75	100	250M	-	1LE7501-2CA73-5AA4	1,162,900
90	120	250M	-	1LE7501-2CA83-5AA4	1,229,050
110	150	280M	S & **M**	1LE7501-2DA73-5AA4	1,546,150
132*	180	280M	S & **M**	1LE7501-2DA83-5AA4	1,677,200

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
kW	HP				
240VΔ/415VY 50Hz+					
2.2	3	90L	S & L	1LE7501-0EB72-3AA4	51,350
415VΔ 50Hz					
3.7	5	100L	-	1LE7501-1AB73-5AA4	67,500
5.5*	7.5	112M	-	1LE7501-1BB73-5AA4	88,000
9.3	12.5	132M	S & **M**	1LE7501-1CB79-0AA4 M1Y	161,780
18.5	25	180L	M & **L**	1LE7501-1DB73-5AA4	284,050
37*	50	200L	-	1LE7501-2AB73-5AA4	538,900
55	75	225M	S & **M**	1LE7501-2BB73-5AA4	785,350
75*	100	250M	-	1LE7501-2CB73-5AA4	1,128,200
110	150	280M	S & **M**	1LE7501-2DB73-5AA4	1,596,550
132	180	280M	S & **M**	1LE7501-2DB83-5AA4	1,797,650
225	300	315L	M & **L**	1LE7501-3AB73-5AA4	3,097,900
250*	335	315L	M & **L**	1LE7501-3AB79-0AA4 M1Y^	3,242,150

+ Rating 2.2kW is star connected and balance ratings are delta connected.

* Temp rise limited to F class.

^ Larger Terminal box (Option code : R50) mandatory

Please contact nearest sales office for documents.

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
kW	HP				
240VΔ/415VY 50Hz+					
2.2	3	100L	-	1LE7501-1AC72-3AA3	70,200
415VΔ 50Hz					
3.7*	5	112M	-	1LE7501-1BC73-5AA4	93,750
7.5	10	132M	S & **M**	1LE7501-1CC73-5AA4	177,900
15*	20	160L	M & **L**	1LE7501-1DC73-5AA4	293,700
18.5*	25	180L	M & **L**	1LE7501-1EC73-5AA4	403,500
160*	215	315L	M & **L**	1LE7501-3AC73-5AA4	2,560,450
200*	270	315L	M & **L**	1LE7501-3AC83-5AA4	2,924,500

A benchmark for performance

Intermittent (S3/S4) duty motors - For Crane duty applications

- High reliability and uptime
- Low maintenance cost

INNOMOTICS

Crane Duty Motors 1LE7-IE2
Line Operation

Degree of Protection IP55, Insulation Class F, Temp. Rise - Class B, Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1. Motor suitable to operate on Line fed supply

4 - Pole 1500 rev/min

S1 duty kW		S4 duty kW 40% CDF, 150 SPH		Frame Size	Mounting Holes	Ordering code (MLFB)	Unit LP in ₹
kW	HP	kW	HP				
240VΔ/415VY 50Hz+							
0.37	0.5	0.47	0.64	71	-	1LE7501-0CB32-3AA4-Z, Z=Y82	24,840
0.55	0.75	0.69	0.94	80	-	1LE7501-0DB22-3AA4-Z, Z=Y82	30,740
0.75	1	0.94	1.3	80	-	1LE7501-0DB32-3AA4-Z, Z=Y82	32,940
1.1	1.5	1.3	1.8	90S	**S** & L	1LE7501-0EB02-3AA4-Z, Z=Y82	41,790
1.5	2	1.9	2.6	90L	S & **L**	1LE7501-0EB42-3AA4-Z, Z=Y82	46,290
2.2	3	2.2	3	90L	S & **L**	1LE7501-0EB72-3AA4-Z, Z=Y82	52,190
415VΔ 50Hz							
3.7	5	3.7	5	100L	-	1LE7501-1AB79-0AA4-Z, Z=Y82+M1Y	70,965
5.5	7.5	5.5	7.5	112M	-	1LE7501-1BB79-0AA4-Z, Z=Y82+M1Y	92,095
7.5	10	7.5	10	132M	S & **M**	1LE7501-1CB23-5AA4-Z, Z=Y82	113,750
9.3	12.5	9.3	12.5	132M	S & **M**	1LE7501-1CB79-0AA4-Z, Z=Y82+M1Y	162,830
11	15	11	15	160M	**M** & L	1LE7501-1DB23-5AA4-Z, Z=Y82	207,430
15	20	15	20	160L	M & **L**	1LE7501-1DB43-5AA4-Z, Z=Y82	226,970
18.5	25	18.5	25	160L	M & **L**	1LE7501-1DB79-0AA4-Z, Z=Y82+M1Y	292,240
22	30	22	30	180L	M & **L**	1LE7501-1EB43-5AA4-Z, Z=Y82	340,780

6 - Pole 1000 rev/min

S1 duty kW		S4 duty kW 40% CDF, 150 SPH		Frame Size	Mounting Holes	Ordering code (MLFB)	Unit LP in ₹
kW	HP	kW	HP				
240VΔ/415VY 50Hz+							
0.25	0.35	0.32	0.44	71	-	1LE7501-0CC32-3AA4-Z, Z=Y82	27,940
0.37	0.5	0.47	0.64	80	-	1LE7501-0DC22-3AA4-Z, Z=Y82	31,790
0.55	0.75	0.7	0.95	80	-	1LE7501-0DC32-3AA4-Z, Z=Y82	33,790
0.75	1	0.9	1.2	90S	**S** & L	1LE7501-0EC02-3AA4-Z, Z=Y82	43,040
1.1	1.5	1.5	2	90L	S & **L**	1LE7501-0EC42-3AA4-Z, Z=Y82	50,590
415VΔ 50Hz							
2.2	3	2.4	3.3	100L	-	1LE7501-1AC79-0AA4-Z, Z=Y82	73,665
3.7	5	3.9	5.3	112M	-	1LE7501-1BC79-0AA4-Z, Z=Y82	97,845
5.5	7.5	5.9	8	132M	S & **M**	1LE7501-1CC33-5AA4-Z, Z=Y82	125,950
7.5	10	7.5	10	132M	S & **M**	1LE7501-1CC73-5AA4-Z, Z=Y82	178,950
7.5	10	8.2	11	160M	**M** & L	1LE7501-1DC23-5AA4-Z, Z=Y82	206,330
11	15	11	15	160L	M & **L**	1LE7501-1DC43-5AA4-Z, Z=Y82	244,480
15*	20	15	20	160L	M & **L**	1LE7501-1DC79-0AA4-Z, Z=Y82+M1Y	301,890
18.5*	25	18.5	25	180L	M & **L**	1LE7501-1EC79-0AA4-Z, Z=Y82+M1Y	414,000

S1 data will be punched on main nameplate with IE marking wherever applicable with S1 duty and standard output.
Respective S4 data will be punched on auxiliary nameplate. S4 data on main nameplate can be provided on request; however S1 data and IE marking will be available on Auxiliary nameplate.
* Temp rise limited to F class.
Y82 option price is included in the above LP.
M1Y is mandatory wherever applicable & prices are inclusive in above LP
+ Ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected (except 2.2kW/4P)

Crane Duty Motors 1LE7-IE2
VFD Operation

Degree of Protection IP55, Insulation Class F, Temp. Rise - Class F, Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1. Motor suitable to operate on VFD supply

4 - Pole 1500 rev/min

S1 duty kW		S4 duty kW 40% CDF, 150 SPH		Frame Size	Mounting Holes	Ordering code (MLFB)	Unit LP in ₹
kW	HP	kW	HP				
240VΔ/415VY 50Hz+							
0.37	0.5	0.5	0.7	71	-	1LE7501-0CB32-3AA4-Z, Z=Y82	24,840
0.55	0.75	0.75	1	80	-	1LE7501-0DB22-3AA4-Z, Z=Y82	30,740
0.75	1	1.1	1.5	80	-	1LE7501-0DB32-3AA4-Z, Z=Y82	21,940
1.1	1.5	1.5	2	90S	**S** & L	1LE7501-0EB02-3AA4-Z, Z=Y82	41,790
1.5	2	2.2	3	90L	S & **L**	1LE7501-0EB42-3AA4-Z, Z=Y82	46,290
415VΔ 50Hz							
2.2	3	2.9	3.9	100L	-	1LE7501-1AB43-5AA4-Z, Z=Y82	57,450
3.7	5	4	5.4	100L	-	1LE7501-1AB73-5AA4-Z, Z=Y82	68,550
5.5	7.5	6	8.2	112M	-	1LE7501-1BB73-5AA4-Z, Z=Y82	89,050
5.5	7.5	7	9.5	132S	**S** & M	1LE7501-1CB03-5AA4-Z, Z=Y82	96,350
7.5	10	9.3	12.5	132M	S & **M**	1LE7501-1CB23-5AA4-Z, Z=Y82	113,750
11	15	14	19	160M	**M** & L	1LE7501-1DB23-5AA4-Z, Z=Y82	195,670
15	20	18.5	25	160L	M & **L**	1LE7501-1DB43-5AA4-Z, Z=Y82	240,930
18.5	25	22	30	180M	**M** & L	1LE7501-1EB23-5AA4-Z, Z=Y82	319,880
22	30	27	37	180L	M & **L**	1LE7501-1EB43-5AA4-Z, Z=Y82	340,780

6 - Pole 1000 rev/min

S1 duty kW		S4 duty kW 40% CDF, 150 SPH		Frame Size	Mounting Holes	Ordering code (MLFB)	Unit LP in ₹
kW	HP	kW	HP				
240VΔ/415VY 50Hz+							
0.25	0.35	0.37	0.5	71	-	1LE7501-0CC32-3AA4-Z, Z=Y82	27,940
0.37	0.5	0.50	0.7	80	-	1LE7501-0DC22-3AA4-Z, Z=Y82	31,790
0.55	0.75	0.75	1	80	-	1LE7501-0DC32-3AA4-Z, Z=Y82	33,790
0.75	1	1.1	1.5	90S	**S** & L	1LE7501-0EC02-3AA4-Z, Z=Y82	43,040
1.1	1.5	1.5	2	90L	S & **L**	1LE7501-0EC42-3AA4-Z, Z=Y82	50,590
1.5	2	2.2	3	100L	-	1LE7501-1AC42-3AA4-Z, Z=Y82	61,100
415VΔ 50Hz							
2.2	3	3.2	4.4	112M	-	1LE7501-1BC23-5AA4-Z, Z=Y82	74,900
3.7	5	4	5.5	112M	-	1LE7501-1BC73-5AA4-Z, Z=Y82	94,800
3.7	5	5.5	7.5	132S	**S** & M	1LE7501-1CC13-5AA4-Z, Z=Y82	106,900
5.5	7.5	7.5	10	132M	S & **M**	1LE7501-1CC33-5AA4-Z, Z=Y82	125,950
7.5	10	9.3	12.5	160M	**M** & L	1LE7501-1DC23-5AA4-Z, Z=Y82	206,330
11	15	15	20	160L	M & **L**	1LE7501-1DC43-5AA4-Z, Z=Y82	244,480
15	20	18.5	25	180L	M & **L**	1LE7501-1EC43-5AA4-Z, Z=Y82	333,230

S1 data will be punched on main nameplate with IE marking wherever applicable with S1 duty and standard output.

Respective S4 data will be punched on Auxiliary nameplate. S4 data on main nameplate can be provided on request; however S1 data and IE class will be available on Auxiliary nameplate.

Y82 option price is included in the above LP.

+ Ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

Fire Fighting
Pump Application Motors - IE2

Degree of Protection IP55, Insulation Class F, Temp. Rise - Class F on DOL start, S1 Duty, Ambient 50°C, Cast Iron housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

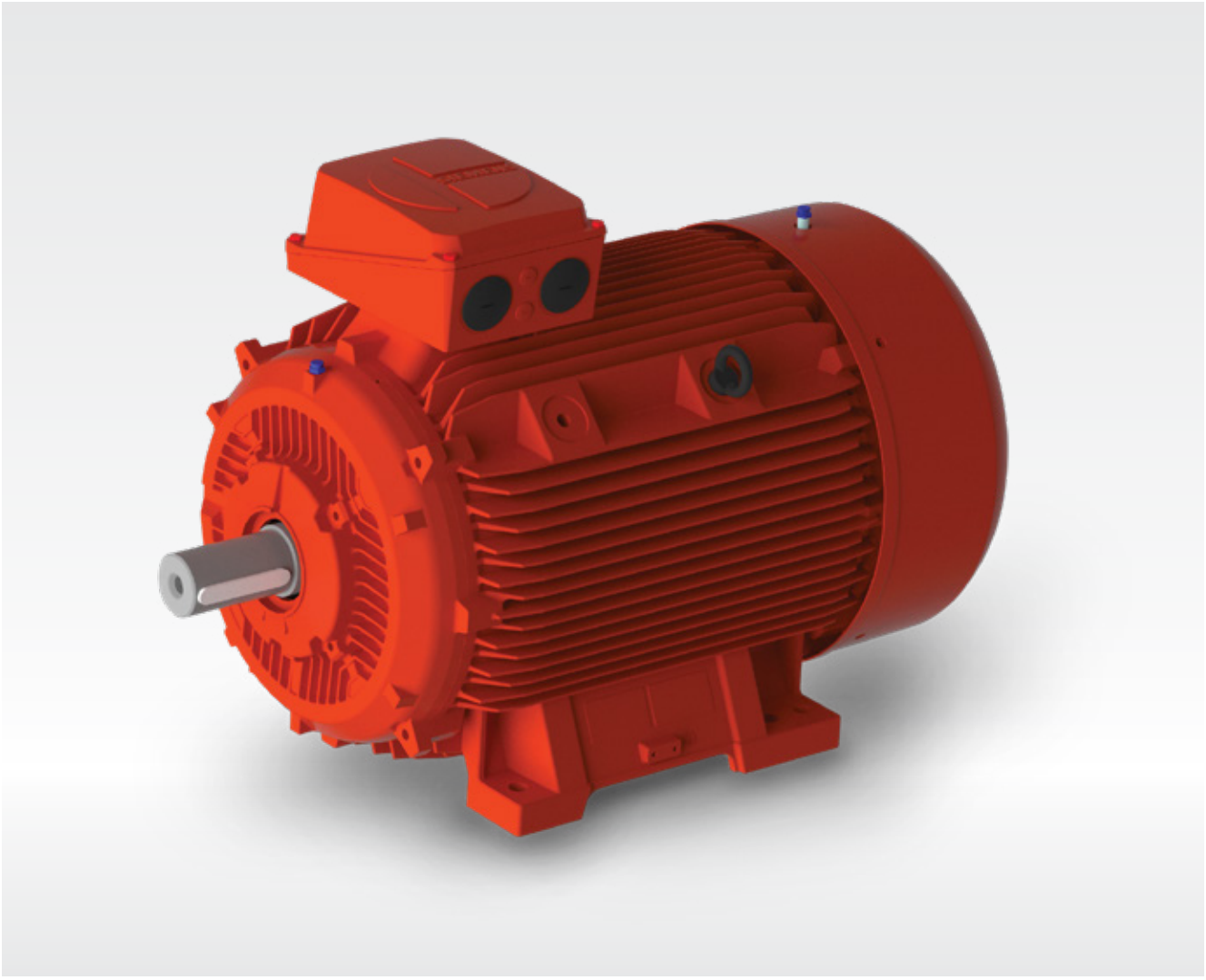
2 - Pole 3000 rev/min					
Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
kW	HP				
415VΔ 50Hz					
5.5	7.5	112M	-	1LE7501-1BA73-5AA4-Z	83,840
7.5	10	132S	**S** & M	1LE7501-1CA13-5AA4-Z	99,840
9.3	12.5	132S	**S** & M	1LE7501-1CA79-0AA4-Z[&]	140,050
11	15	132S	**S** & M	1LE7501-1CA73-5AA4-Z	158,720
22	30	160L	M & **L**	1LE7501-1DA73-5AA4-Z	292,100
30	40	180L	M & **L**	1LE7501-1EA73-5AA4-Z	391,300
37	50	180L	M & **L**	1LE7501-1EA83-5AA4-Z	476,100
45	60	200L	M & **L**	1LE7501-2AA73-5AA4-Z	579,120

2 - Pole 3000 rev/min					
Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
kW	HP				
415VΔ 50Hz					
55	75	200L	-	1LE7501-2AA83-5AA4-Z	696,270
55	75	225M	S & **M**	1LE7501-2BA73-5AA4-Z	756,850
75	100	250M	-	1LE7501-2CA73-5AA4-Z	1,107,500
90	120	250M	-	1LE7501-2CA83-5AA4-Z	1,229,060
110	150	280M	S & **M**	1LE7501-2DA73-5AA4-Z	1,546,130
125	170	280M	S & **M**	1LE7501-2DA89-0AA4-Z[&]	1,677,210
160	215	315L	M & **L**	1LE7501-3AA43-5AA4-Z	2,191,565
180	240	315L	M & **L**	1LE7501-3AA49-0AA4-Z[&]	2,513,410

Please contact nearest sales office for data sheet and drawings.

Colour of motors are Fire red & Z Code - Y56 (Shade 536 as per IS:5) prices are inclusive in the above MRP.

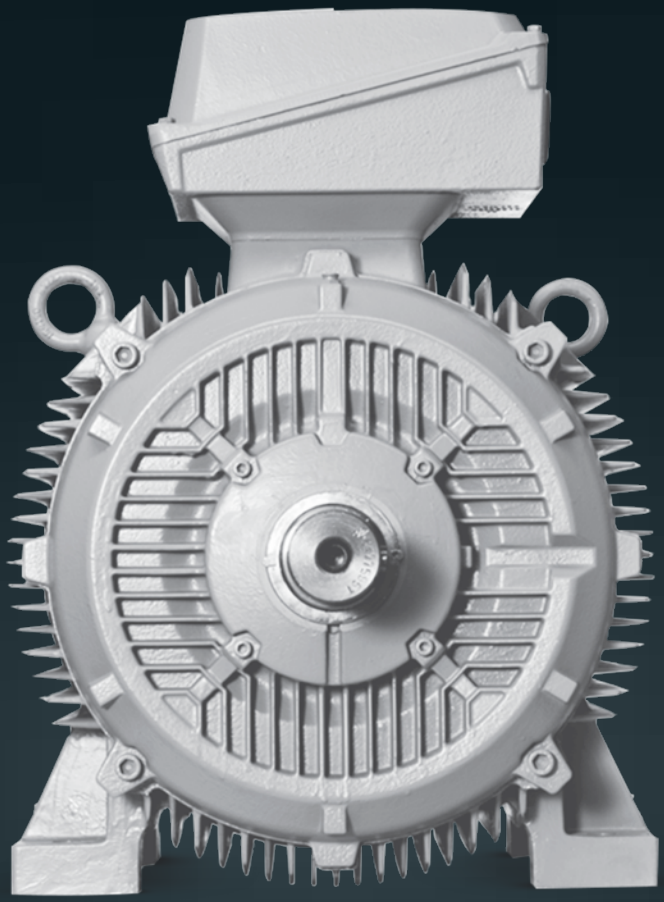
& M1Y option is mandatory & prices are inclusive in same.



INNOMOTICS

For advanced technology in Bearing Insulation, order motors with L51

(For VFD Fed Motor)



- Proven technology & now available in India from frame sizes 225 - 315.
- Higher impedance to bearing current throughout the speed range.
- Eliminates use of Insulated bearing.

Selection & Ordering codes for 1LE7 Cast Iron Motors

MLFB Position	Voltage code		Construction code	Winding Protection code		Terminal Box code	Incremental LP in INR												
	12th & 13th	Short code	14th	15th		16th	71	80	90	100	112	132	160	180	200	225	250	280	315
1LE7503 - □□□	■-		□-□■□□	□-□□■□		□-□□□■													
Voltage																			
50Hz, 415VΔ#	3-5						□	□	□	□	□	□	□	□	□	□	□	□	□
50Hz, 240VΔ/415VY#	2-3						□	□	□	□	□	□	□	□	□	□	□	□	□
50Hz, 380VY	2-1						1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, 400VY	2-2						1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, 380VΔ	3-3						1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, 400VΔ	3-4						1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, 500VΔ$	4-0						1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, Any Non std voltage mentioned in Table 30.1 (upto 480V)	9-0	M1Y					1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
60Hz, Any Non std voltage mentioned in Table 30.2 (upto 480V)&	9-0	Refer Table 10.2					1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, 690VΔ@$	4-7						1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
50Hz, 690VY@$	9-0	M1Y					1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
Voltage other than above	9-0	M1Y					Contact Sales office												
Customized winding	9-0	M1Y					1,470	1,785	1,995	2,415	3,045	4,830	6,510	8,820	12,810	19,110	39,375	51,975	70,350
Type of Construction																			
	IMB3		A				□	□	□	□	□	□	□	□	□	□	□	□	□
	IMV5		C				O	O	O	O	O	O	O	O	O	O	O	O	O
	IMV6		D				O	O	O	O	O	O	O	O	O	O	O	O	O
	IMV1		G				1,155	1,260	1,680	1,995	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	105,525
	IMV3^		H				1,155	1,260	1,680	1,995	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	105,525
	IMB5^		F				1,155	1,260	1,680	1,995	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	105,525
	IMB14		K				1,470	1,785	1,995	2,520	3,045	4,830	Not Available						
	IMV18		M				1,155	1,260	1,680	1,995	2,520	3,360	Not Available						
	IMV19		L				1,155	1,260	1,680	1,995	2,520	3,360	Not Available						
	IMB35		J				1,390	1,700	2,350	2,450	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	105,525
	IMB34		N				1,470	1,785	1,995	2,520	3,045	4,830	Not Available						
	IMV36[1]		Y				1,390	1,700	2,350	2,450	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	105,525
	IMB6		T				O	O	O	O	O	O	O	O	O	O	O	O	O
	IMB7		U				O	O	O	O	O	O	O	O	O	O	O	O	O
	IMB8		V				O	O	O	O	O	O	O	O	O	O	O	O	O
	IMV15		W				1,390	1,700	2,350	2,450	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	105,525

□ Standard Version
O Without additional charges.

Note:
As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected.
@ Voltage code 9-0 in position 12-13 requires additional order code M1Y along with plain text mentioning voltage & frequency.
& All 60Hz motors delivered on or after 1st July 2021 will not carry CE mark.
$ Suitable for Grid operation only.

[1] IMV35 shall be provided when used with B59
[2] Can not be offered when MLFB-15th digit is "A"
^ Except frame 315L

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Selection & Ordering codes for 1LE7 Cast Iron Motors

MLFB Position	Voltage code		Construction code	Winding Protection code		Terminal Box code	Incremental LP in INR												
	12th & 13th	Short code	14th	15th		16th	71	80	90	100	112	132	160	180	200	225	250	280	315
1LE7503 - □□□	■-		□-□■□□	□-□□■□		□-□□□■													
Winding Protection				**MLFB: 15th**	**Z Code if any**														
Without protection				A			□	□	□	□	□	□	□	□	□	□	□	□	□
3x PTC thermistors for tripping (Class F)				B			10,920	10,920	10,920	10,920	10,920	10,920	12,180	12,180	12,180	12,180	14,175	14,175	14,175
6x PTC thermistors for tripping (Class F)				B	Q11		21,840	21,840	21,840	21,840	21,840	21,840	24,360	24,360	24,360	24,360	27,300	27,300	27,300
6x PTC thermistors - 3x for alarm and 3x for tripping (Class F)				C			21,840	21,840	21,840	21,840	21,840	21,840	24,360	24,360	24,360	24,360	27,300	27,300	27,300
3x PTC thermistors for tripping (Class B)				B	Q90		10,920	10,920	10,920	10,920	10,920	10,920	12,180	12,180	12,180	12,180	14,175	14,175	14,175
6x PTC thermistors for tripping (Class B)				B	Q11+Q90		21,840	21,840	21,840	21,840	21,840	21,840	24,360	24,360	24,360	24,360	27,300	27,300	27,300
6x PTC thermistors - 3x for alarm and 3x for tripping (Class B)				C	Q90		21,840	21,840	21,840	21,840	21,840	21,840	24,360	24,360	24,360	24,360	27,300	27,300	27,300
3x PT100 resistance thermometers in stator winding - 2 wire				H			38,850	38,850	38,850	38,850	38,850	38,850	43,260	43,260	43,260	43,260	46,200	46,200	46,200
6x PT100 resistance thermometers in stator winding - 2 wire				J			81,165	81,165	81,165	81,165	81,165	81,165	85,680	85,680	85,680	85,680	91,350	91,350	91,350
Embedded temperature sensor- PT1000				K			Not Available						14,700	14,700	14,700	14,700	16,275	16,275	16,275
2x Embedded temperature sensor- PT1000				L			Not Available						28,770	28,770	28,770	28,770	31,500	31,500	31,500
3x PT100 resistance thermometers in stator winding - 3 wire				Z	Q1B		Not Available						43,260	43,260	43,260	43,260	46,200	46,200	46,200
6x PT100 resistance thermometers in stator winding - 3 wire				Z	Q2B		Not Available						85,680	85,680	85,680	85,680	91,350	91,350	91,350
12x PT100 resistance thermometers in stator winding - 3 wire				Z	Q2B+Q66		Not Available												182,175
3x Bi-metallic sensors for trip operation (Thermostats)				Z	Q3A		10,920	10,920	10,920	10,920	10,920	10,920	12,180	12,180	12,180	12,180	14,175	14,175	14,175
6x Bi-metallic sensors (3x for alarm, 3x for tripping) (Thermostats)				Z	Q9A		21,840	21,840	21,840	21,840	21,840	21,840	24,360	24,360	24,360	24,360	27,300	27,300	27,300
3x Bi-metallic sensors for trip operation (Thermostats) - additional					Q31[2]		Not Available			10,920	10,920	10,920	12,180	12,180	12,180	12,180	14,175	14,175	14,175
6x Bi-metallic sensors for alarm and trip operation (Thermostats) - additional					Q32[2]		Not Available			21,840	21,840	21,840	24,360	24,360	24,360	24,360	27,300	27,300	27,300
3x PT100 resistance thermometers in stator winding - 3 wire (additional)					Q65[2]		Not Available						43,260	43,260	43,260	43,260	46,200	46,200	46,200
6x PT100 resistance thermometers in stator winding - 3 wire (additional) - [In addition to Q2B]					Q66[2]		Not Available						85,680	85,680	85,680	85,680	91,350	91,350	91,350
Terminal Box Position																			
Terminal Box on TOP						4	□	□	□	□	□	□	□	□	□	□	□	□	□
Mains Terminal box on RHS as viewed from DE						5	Not Available			6,090	6,825	7,560	17,640	17,640	20,160	24,990	34,125	35,700	40,425
Mains Terminal box on LHS as viewed from DE						6	Not Available			6,090	6,825	7,560	17,640	17,640	20,160	24,990	34,125	35,700	40,425

□ Standard Version

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Voltage Code (Specified in MLFB Positions 12 & 13)

Table 30.1

Frequency 50Hz

Position 12 & 13	Connection		Short Code
	Δ	Y	
90	220VΔ	-	M1Y
90	230VΔ	-	M1Y
90	240VΔ	-	M1Y
90	360VΔ	-	M1Y
90	440VΔ	-	M1Y
90	460VΔ	-	M1Y
90	480VΔ	-	M1Y
90	525VΔ	-	M1Y
90	-	660VY	M1Y
90	-	690VY	M1Y
90	Any other voltage		M1Y

Table 30.2

Frequency 60Hz

Position 12 & 13	Standard 50Hz Power		Short Code
	Δ	Y	
90	220VΔ	380VY	M2A
90	380VΔ	660VY	M2B
90		440VY	M2C
90	440VΔ		M2D
90		460VY	M2E
90	460VΔ		M2F
90		575VY	M2G
90	575VΔ		M2H
90	400VΔ	690VY	M2J
90		480Y	M2K
90	480VΔ		M2L
90	230VΔ	400Y	M2M
	Any other voltage apart from those listed above.		M1Y

Notes:

1. M1Y requires Hz, V and kW to be specified in plain text.
2. 60Hz mandates that a "-Z", Z = B59 to be specified.
3. For 1LE75 and 1LE76 all above voltagees are possible for frames 71 - 225.
4. For frames 250 - 315, not all above voltages may be possible.
   Please enquire with nearest office.
   & All 60Hz motors delivered on or after 1st July 2021 will not carry CE mark.

Price Add-ons for 1LE7 Cast Iron Motors

Options (Non-standard features / Accessories)

Sr. No.	Description	Z-Code	Remarks	Note	Incremental LP in INR												
					71	80	90	100	112	132	160	180	200	225	250	280	315
1	2x PT100 screw-in resistance thermometers (2 wire) for rolling-contact bearings [Simplex 2 wire type]	Q72			Not Applicable						38,850	38,850	38,850	38,850	78,750	78,750	78,750
2	2x PT100 screw-in resistance thermometers (3 wire) for rolling-contact bearings [Simplex 3 wire type]	Q67			Not Applicable						38,850	38,850	38,850	38,850	78,750	78,750	78,750
3	2x PT100 double screw-in resistance thermometers (3 wire) for rolling-contact bearings [Duplex 2 wire type]	Q68			Not Applicable						38,850	38,850	38,850	38,850	78,750	78,750	78,750
Connection and Connection Box																	
4	External Grounding (Earthing) Terminal on motor feet	H04			□	□	□	□	□	□	□	□	□	□	□	□	□
5	Second external grounding (earthing) terminal on motor feet	H70			□	□	□	□	□	□	□	□	□	□	□	□	□
6	Rotation of the mains terminal box through 90°, entry from DE	R10			O	O	O	O	O	O	O	O	O	O	O	O	O
7	Rotation of the mains terminal box through 90°, entry from NDE	R11			O	O	O	O	O	O	O	O	O	O	O	O	O
8	Rotation of mains terminal box through 180°	R12			O	O	O	O	O	O	O	O	O	O	O	O	O
9	6x flying leads, 0.5 m long	R22			6,825	6,825	6,825	6,825	6,825	6,825	13,650	13,650	Not Available		Not Available		
10	6x flying leads, 1.5 m long	R23			10,185	10,185	10,185	10,185	10,185	10,185	20,160	20,160	20,160	20,160	54,600	68,250	127,050
11	6x flying leads, 3 m long	R24			13,440	13,440	13,440	13,440	13,440	13,440	26,880	26,880	26,880	26,880	68,250	88,850	168,000
12	Reducer	R30			Not Available			6,825	6,825	6,825	19,110	19,110	19,110	19,110	25,200	25,200	25,200
13	Removable cable entry plate	R52			Not Available							16,590	16,590	16,590	25,200	25,200	25,200
14	Undrilled removable entry plate	R53			Not Available							16,590	16,590	16,590	25,200	25,200	25,200
15	Next larger mains terminal box	R50			3,570	3,570	3,570	5,460	5,460	5,460	12,810	15,330	15,330	15,330	33,600	36,750	52,500
16	Cable end box extension		Possible only in combination with R52/R53 for FS upto 280; R50/R52/R53 in FS 315		Not Available							14,490	18,480	18,480	24,150	32,550	32,550
17	1x Cast-iron auxiliary terminal box (Small)	R62			Not Available						11,130	11,130	11,130	11,130	14,700	14,700	14,700
18	1x Cast-iron auxiliary terminal box (Large)	R63			Not Available								16,590	16,590	21,000	21,000	21,000
19	2x Cast-iron auxiliary terminal box (Small)	R67			Not Available						21,840	21,840	21,840	21,840	28,350	28,350	28,350
20	2x Cast-iron auxiliary terminal box (Large)	R68			Not Available										39,000	39,000	39,000
21	Mains Terminal box - Cast Iron (where AL / sheet metal is a standard)	R64			3,045	3,045	3,045	4,095	4,095	4,095	5,670	5,670	□	□	□	□	□
22	Non-standard threaded through hole (NPT or G thread)	Y61			On Enquiry												
Winding & Insulation																	
23	Ambient temperature 55°C (F utilised to B limits)	N07	Only with 1LE76	&	O	O	O	O	O	O	O	O	O	O	O	O	O
24	"Temperature class 155 (F), utilized acc. to 155 (F), with service factor (SF	N01			O	O	O	O	O	O	O	O	O	O	O	O	O
25	Temperature class 155 (F), utilized acc. to 155 (F), with increased output	N02			O	O	O	O	O	O	O	O	O	O	O	O	O
26	Temperature class 155 (F), utilized acc. to 155 (F), with increased ambient temperature	N03			O	O	O	O	O	O	O	O	O	O	O	O	O
27	Temperature class 180 (H) at rated output and max. CT 60 °C	N11			On Enquiry												
28	Temperature class 180 (H) at rated output	N10			4,095	5,460	6,090	7,560	10,185	12,075	20,370	30,450	40,320	53,550	78,750	1.01,850	163,800
Environmental protection																	
29	Anti-corrosive treatment for winding overhang	N22			4,935	4,935	6,510	6,510	6,510	6,510	7,980	7,980	9,870	12,810	25,200	32,550	51,450

Notes:

□ Standard Version

O Without additional charges.

& All 1LE76 motors delivered on or after 1st July 2021 will not carry CE mark.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1LE7 for Cast Iron Motors

Options (Non-standard features / Accessories)

Sr. No.	Description	Z-Code	Remarks	Note	Incremental LP in INR												
					71	80	90	100	112	132	160	180	200	225	250	280	315
30	Increased air humidity / temperature (30g to 60g of water /m³ of air)	N30			On Enquiry										8,400	10,500	11,550
31	Increased air humidity / temperature (60g to 100g of water /m³ of air)	N31			On Enquiry										11,550	14,700	17,850
32	Sea worthy packaging	B12			23,100	23,100	23,100	27,930	27,930	27,930	40,320	41,370	45,780	52,290	65,100	94,500	126,000
Motors for Converter Fed Operation																	
33	Inverter suitable winding		For FS 71-225 (Inverter output voltage ≤480V) For FS 250-315 (Inverter output voltage ≤500V)		□	□	□	□	□	□	□	□	□	□	□	□	□
34	Inverter suitable winding		For FS 71-225 (Inverter output voltage>480 and ≤690V)+ For FS 250-315 (Inverter output voltage>500 and ≤690V)+		On Enquiry										138,600	138,600	138,600
35	Bearing Insulation arrangement	L51			Not Available									171,150	171,150	171,150	171,150
36	Insulated Bearing at NDE	L53			Not Available						147,000	147,000	183,750	199,500	199,500	199,500	199,500
37	Mounting of Separately Driven Fan	F70			Not Available			65,000	70,000	75,000	87,990	94,710	114,660	131,040	159,600	170,100	224,700
38	Separately driven fan with non-standard voltage and/or frequency	Y81	To be ordered along with F70								6,930	6,930	6,930	6,930	9,450	9,450	9,450
Heating & Ventilation																	
39	Fan cover for textile industry (Clean Flow Fan Cowl includes Canopy)	F75			NA	4,830	4,830	8,085	8,085	9,555	9,660	Not Available			Not Available		
40	Stainless Steel Fan Cowl	F74			255	350	400	430	850	950	2,300	3,500	□	□	□	□	□
41	Metal external fan (Metal Fan [no AL])	F76	1		6,825	6,825	6,825	13,440	13,440	13,440	23,520	23,520	31,290	31,290	39,900	52,500	82,950
42	Without external fan and without fan cover	F90	1		4,095	4,095	4,095	4,095	4,095	4,095	9,240	9,240	12,180	12,180	15,750	22,050	33,600
43	Fan cover with Canopy	H00			5,145	5,460	5,775	6,090	6,510	7,245	9,660	9,660	12,810	12,810	16,800	24,150	35,700
44	Anti-condensation heaters for 230 V	Q02			NA	NA	6,090	6,090	6,090	6,090	9,450	9,450	12,810	12,810	16,800	16,800	16,800
45	Anti-condensation heaters for 115 V	Q03			NA	NA	6,090	6,090	6,090	6,090	9,450	9,450	12,810	12,810	16,800	16,800	16,800
46	Anti-condensation heaters for 240 V	Q07			NA	NA	6,090	6,090	6,090	6,090	7,980	7,980	11,130	11,130	12,600	12,600	12,600
47	Anti-condensation heaters for 120 V	Q08			NA	NA	6,090	6,090	6,090	6,090	7,980	7,980	11,130	11,130	12,600	12,600	12,600
Colour & Paint Finish																	
Paint Shades (If no paint shade is selected, then RAL 7030 is the standard)																	
48	Standard Paint Shade - RAL 7030				□	□	□	□	□	□	□	□	□	□	□	□	□
49	Standard RAL paint shades other than RAL7030	Y53	Specify RAL shade code in plain text		1,995	2,205	2,625	3,465	4,095	6,615	11,130	11,130	19,110	19,110	32,550	42,000	63,000
50	Special RAL paint shades or shades as per IS:5	Y56	Specify RAL/IS shade code in plain text		1,995	2,205	2,625	3,465	4,095	6,615	11,130	11,130	19,110	19,110	32,550	42,000	63,000

Notes:
1. Y53 or Y56 (only one at a time) can be combined with any of the paint finishes indicated in 51 to 56. Below. Just add the appropriate price from 51 to 56.
2. Some paint shades both from Y53 or Y56 are only possible with S07. Please consult sales offices for the same.

Paint Finish (If no paint finish is selected, Acrylic based paint finish is standard)																	
51	Polyurethane paint finish - RAL 7030		90µ standard.		□	□	□	□	□	□	□	□	□	□	□	□	□
52	Epoxy based Paint - Standard paint thickness	S07+ Y57 (90)	DFT 90µ		2,835	2,835	2,835	4,095	4,095	7,560	12,810	12,810	23,940	23,940	48,300	63,000	101,850
53	Epoxy based Paint - Special paint thickness	S07+ Y57 (120)	DFT 120µ [Y57 (120)]		4,095	4,095	4,095	6,090	6,090	11,235	18,900	18,900	35,280	35,280	71,400	94,500	152,250
54	Epoxy based Paint - Special paint thickness	S07+ Y57 (180)	DFT 180µ [Y57 (180)]		5,460	5,460	5,460	8,085	8,085	14,805	25,200	25,200	46,830	46,830	94,500	124,950	203,700

Notes:

1. Not available for IC416 cooling.

□ Standard Version

& All 1LE76 motors delivered on or after 1st July 2021 will not carry CE mark.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1LE7 for Cast Iron Motors

Options (Non-standard features / Accessories)

Sr. No.	Description	Z-Code	Remarks	Note	Incremental LP in INR												
					71	80	90	100	112	132	160	180	200	225	250	280	315
55	Special finish for use onshore sea air resistant	S03+ S06+ Y57+ H07	180µ [Y57(180)]		23,205	23,205	23,205	23,205	25,410	25,410	38,640	42,000	46,410	50,820	64,050	106,050	127,050
56	Special finish for use onshore sea air resistant	S03+ S06+ Y57+ H07	240µ [Y57(240)]		27,615	27,615	27,615	27,615	30,345	30,345	45,150	50,820	55,230	60,690	76,650	127,050	152,250
57	Special paint thickness for offshore use	S04+ S06+ Y57+ H07	295µ [Y57(295)]		33,075	33,075	33,075	33,075	36,435	36,435	54,600	66,690	66,780	72,870	91,350	152,250	182,700

Notes:
1. Paint thickness needs to be specified by means of plain text irrespective of whether it is standard or special.
2. S06 - Final Coat Polyurethane is mandatory with S03 or S04.
3. H07 - Non-rusting external hardware is mandatory with S03 or S04. H07 can be separately order even without S03 or S04. The separate price for H07 is available against the option at Sr. No.81.

58	Motor supplied unpainted - only with (Red-oxide) Primer	S01			O	O	O	O	O	O	O	O	O	O	O	O	O
Encoders																	
59	Kubler Sendix 5020 HTL Rotary Pulse encoder-10	G11	Without encoder termination cable		93,765	93,765	93,765	On Enquiry			Not Available				Not Available		
60	Kubler Sendix 5020 TTL Rotary Pulse encoder-10	G12			93,765	93,765	93,765	On Enquiry			Not Available				Not Available		
61	LL 861 900 220 rotary pulse encoder	G04			Not Available			177,555	177,555	177,555	200,760	200,760	226,170	226,170	262,500	262,500	262,500
62	HOG 9D 1024 I rotary pulse encoder	G05			Not Available			169,785	169,785	169,785	192,990	192,990	218,400	218,400	253,050	253,050	253,050
63	HOG 10D 1024 I rotary pulse encoder	G06			Not Available			177,555	177,555	177,555	200,760	200,760	226,170	226,170	262,500	262,500	262,500
64	Baumer Thalheim make ITD 40 A4 Y126 1024 encoder	G17			Not Available			106,995	106,995	106,995	127,890	127,890	133,560	133,560	141,750	141,750	141,750
65	HOG 86 TP6 DN 1024 I encoder	G19			Not Available			145,530	145,530	145,530	165,480	165,480	171,990	171,990	179,550	179,550	179,550
66	Prepared for mounting Baumer Thalheim make ITD 40 A4 Y126 1024 - encoder	G44			Not Available			21,000	21,000	21,000	40,950	40,950	47,460	47,460	54,600	54,600	54,600
67	Prepared for mounting cylindrical shaft encoder - 16dia x 52	G45			Not Available			21,000	21,000	21,000	40,950	40,950	47,460	47,460	54,600	54,600	54,600
68	Prepared for any make Cylindrical Hollow Shaft Encoder	Y71			On Enquiry			21,000	21,000	21,000	40,950	40,950	47,460	47,460	54,600	54,600	54,600
69	Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (speed .... rpm), connection box protection against moisture	Y74			Not Available						On Enquiry				On Enquiry		
70	Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (speed .... rpm), connection box protection against dust	Y76			Not Available												
71	Mounting of rotary pulse encoder HOG 10 DN 1024 I + E SL 93, (speed .... rpm), connection box protection against moisture	Y79			Not Available												
Brake motors																	
72	Mounting of disk brake	F01	Intorque brake For 4,6 and 8 pole		7,035	8,925	11,130	14,910	20,265	Not Available					Not Available		
73	Mounting of brake	F07	"Emco brake For 2 pole only in Frame size- 71-112"		12,495	16,695	17,955	22,680	23,415	26,670	36,330	37,380	40,110	43,050	Not Available		
74	Brake supply voltage 24 V DC	F10			19,110	27,300	31,500	35,175	36,855	63,210	95,970	113,610	1,2,090	164,850	Not Available		
75	Brake supply voltage 230 V AC, 50/60 Hz	F11			23,835	31,605	35,910	39,375	41,475	67,410	100,380	118,860	137,130	169,260	Not Available		
76	Brake supply voltage 400 V AC, 50/60 Hz	F12			27,405	36,120	40,845	44,520	46,620	75,180	111,510	132,090	151,620	181,440	Not Available		
77	Brake supply voltage 240 V AC, 50/60 Hz	F13			24,360	32,235	36,540	42,315	44,310	71,715	106,050	1,26,420	144,900	175,770	Not Available		
78	Brake supply voltage 415 V AC, 50/60 Hz	F14			22,050	31,815	35,175	40,635	42,630	68,565	102,060	110,880	138,180	175,770	Not Available		
79	Mechanical manual brake release with lever (cannot be locked)	F50			O	O	O	O	O	O	O	O	O	O	Not Available		
Mechanical Design & Degrees of Protection																	
80	Vibration proof version	H02			840	840	840	945	945	945	1,260	1,260	1,470	1,470	2,100	2,100	3,150
81	Condensation drainage holes - sealed with a plug	H03			2,625	2,625	2,625	□	□	□	□	□	□	□	□	□	□
82	Stainless steel fasteners (external)	H07			2,730	2,730	2,730	3,045	3,045	3,045	4,410	4,410	4,410	4,410	11,550	12,600	16,800
83	Mains Terminal box on NDE	H08			Not Available										On Enquiry		
84	IP65 degree of protection	H20			3,045	3,465	4,410	5,460	6,825	10,185	20,370	26,880	37,800	52,290	68,250	87,150	107,100

Notes:

□ Standard Version

O Without additional charges.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1LE7 for Cast Iron Motors

Options (Non-standard features / Accessories)

Sr. No.	Description	Z-Code	Remarks	Note	Incremental LP in INR												
					71	80	90	100	112	132	160	180	200	225	250	280	315
85	IP56 degree of protection (non-heavy-sea)	H22			3,045	3,465	4,410	5,460	6,825	10,185	20,370	26,880	37,800	52,290	68,250	87,150	107,100
86	Labyrinth Seal on DE & NDE	H28			Not Available										NA	7,875	8,925
Bearing & Lubrication																	
87	Measuring nipple for SPM shock pulse measurement for bearing inspection	Q01			Not Available			6,825	6,825	6,825	7,770	7,770	8,610	11,130	16,800	23,100	35,700
88	Locating bearing, DE	L20			On Enquiry						5,670	5,670	6,720	7,770	9,450	13,650	22,050
89	Bearing design for increased cantilever forces	L22	NU (Cylindrical Roller) Brgs		Not Available						12,600	16,170	24,360	32,340	39,900	52,500	82,950
90	Conical head regreasing device	L19			Not Available			1,890	2,520	3,465	7,350	9,870	14,700	□	□	□	□
91	Flat button-head regreasing device	L23			Not Available			On Enquiry			7,350	9,870	14,700	On Enquiry			
92	Bearings reinforced at both ends for DE and NDE, bearing size 63	L25	Only where 62 series is a standard		1,785	1,890	1,995	2,520	3,045	4,725	□	□	□	□	□	□	□
93	C4 clearance bearing at DE & NDE	L31			Not Available						9,870	10,710	20,160	26,670	40,950	47,250	53,550
94	SKF bearing at DE & NDE	L32			525	735	840	1,155	1,470	3,255	3,990	5,040	6,300	6,930	9,450	10,500	11,550
95	Double Sealed (ZZ) bearings (permanently lubricated)- only for ball bearings at DE & NDE)	L33			□	□	□	□	□	□	□	□	□	26,880	34,650	40,950	48,300
96	Customer specific regreasing interval	Y94			O	O	O	O	O	O	O	O	O	O	O	O	O
Balance & Vibration Quality																	
97	Vibration Severity Level A				□	□	□	□	□	□	□	□	□	□	□	□	□
98	Vibration Severity Level B	L00			4,620	4,620	4,620	11,340	11,340	11,340	16,170	16,170	26,880	26,880	44,100	44,100	44,100
99	Balancing without key	L01			1,680	1,680	1,680	3,885	3,885	3,885	12,180	12,180	24,360	24,360	38,850	52,500	84,000
100	Full key balancing	L02			1,680	1,680	1,680	3,885	3,885	3,885	12,180	12,180	24,360	24,360	38,850	52,500	84,000
Shaft & Rotor																	
101	Standard Double Shaft Extension (SDSE)	L05		1	3,885	3,885	3,885	4,935	4,935	4,935	9,870	13,020	18,480	22,680	25,200	33,600	53,550
102	Shaft material - Stainless steel	L06			5,040	7,875	11,445	14,805	18,480	23,625	On Enquiry						
103	Non-standard cylindrical shaft extension - DE	Y58		*	5,460	5,460	5,460	7,140	7,140	7,140	16,590	22,470	29,190	36,540	42,000	54,600	86,100
104	Non-standard cylindrical shaft extension - NDE	Y59		*1	5,460	5,460	5,460	7,140	7,140	7,140	16,590	22,470	29,190	36,540	42,000	54,600	86,100
105	Special shaft steel: EN24	Y60			5,040	6,090	7,770	11,550	12,705	19,845	45,780	71,610	72,240	92,610	131,250	200,550	373,800
106	Tapered shaft extension DE	Y62			On Enquiry												
107	Tapered shaft extension NDE	Y63		*1	On Enquiry												
108	Oil Tight shaft	H23	Only for Flange motors and gear box assembly		3,360	3,360	3,360	4,725	4,725	4,725	□	□	□	□	On Enquiry		
Rating Plate & Extra Rating Plate																	
109	Stainless steel nameplate				□	□	□	□	□	□	□	□	□	□	□	□	□
110	Direction indicating arrow - Clockwise	L10			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
111	Direction indicating arrow - Counter-clockwise	L11			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
112	Extra rating plate with deviating rating plate data	Y80			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
113	Extra rating plate with identification code - Auxilliary nameplate	Y82			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
114	Nameplate in accordance with IEC	B59			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
115	Additional information on rating plate and on package label (max. of 20 characters)	Y84			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
116	Second rating plate, supplied loose	M10			840	840	840	1,050	1,050	1,050	1,680	1,680	2,100	2,100	4,200	5,250	6,300
Testing Charges																	
117	Witnessing of Routine Test as per IS15999	B65			16,590	16,590	16,590	16,590	16,590	16,590	33,180	33,180	33,180	33,180	67,200	80,850	1,00,800
118	Visual Inspection (Includes Dimension Measurement and paint shade and thickness)	B66			3,360	3,360	3,360	3,360	3,360	3,360	8,610	8,610	9,240	9,240	16,800	16,800	16,800
119	Type test as per IS 15999	B83			44,100	44,100	44,100	44,100	44,100	44,100	73,500	73,500	99,330	99,330	138,600	148,050	168,000
120	Noise measurement without spectrum analysis with acceptance	B70			On Enquiry												
121	Noise measurement with spectrum analysis with acceptance	B72			On Enquiry												

Notes:

1. Not available for IC416 cooling.
* Prior quotation from works necessary
□ Standard Version
& All 1LE76 motors delivered on or after 1st July 2021 will not carry CE mark.

Extra Price Calculations

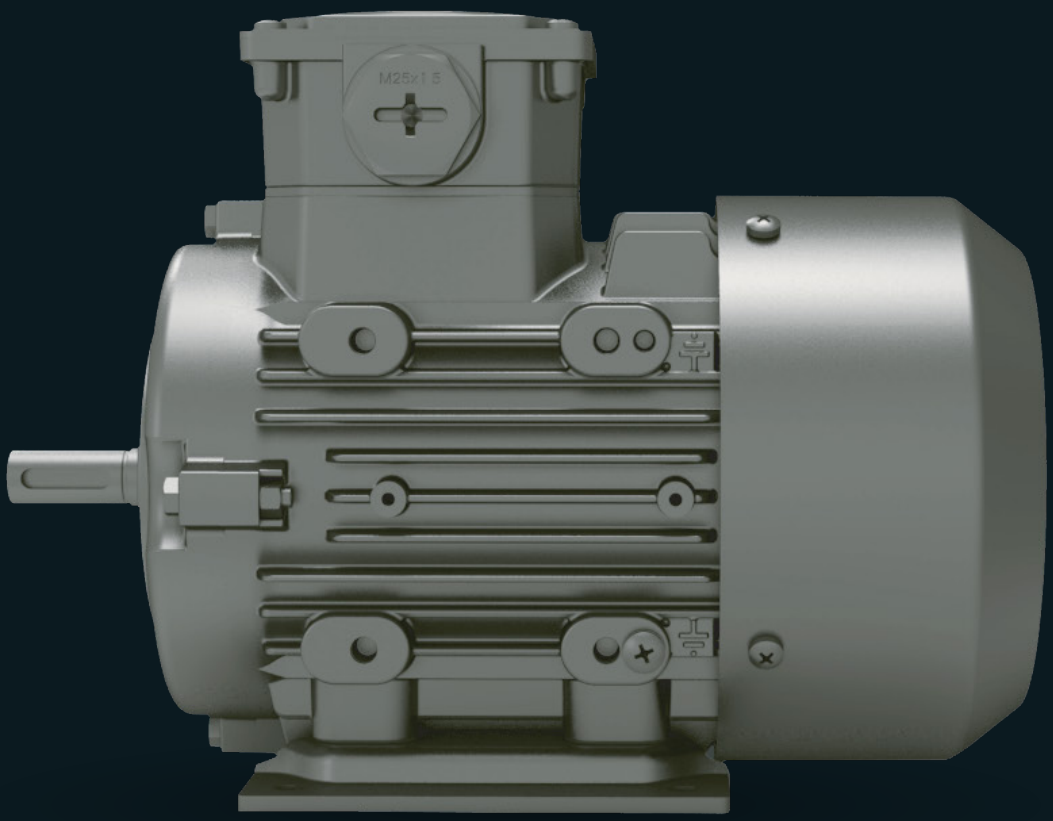
Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

INNOMOTICS

MOVES! 1LE7

IE2, IE3 Efficiency Class Aluminum Housing Motors

Lightweight, Efficient & Versatile



innomotics.com

Aluminum housing - 1LE7 1E3

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, Aluminum housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Mounting Holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.25	0.35	71	-	1LE7103-0CA22-3AA4	26,750	●	▲
0.37	0.5	71	-	1LE7003-0CA22-3AA4	26,750	●	▲
0.55	0.75	71	-	1LE7003-0CA32-3AA4	30,200	●	▲
0.75	1	80	-	1LE7003-0DA22-3AA4	33,600	●	▲
1.1	1.5	80	-	1LE7003-0DA32-3AA4	38,300	●	▲
1.5	2	90S	**S** & L	1LE7003-0EA02-3AA4	45,300	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7003-0EA43-5AA4	52,300	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting Holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7103-0CB22-3AA4	27,650	●	▲
0.25	0.35	71	-	1LE7003-0CB22-3AA4	27,650	●	▲
0.37	0.5	71	-	1LE7003-0CB32-3AA4	28,850	●	▲
0.55	0.75	80	-	1LE7003-0DB22-3AA4	33,850	●	▲
0.75	1	80	-	1LE7003-0DB32-3AA4	41,400	●	▲
1.1	1.5	90S	**S** & L	1LE7003-0EB02-3AA4	48,650	●	▲
1.5	2	90L	S & **L**	1LE7003-0EB42-3AA4	52,800	●	▲

+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting Holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7003-0CC22-3AA4	30,200	●	▲
0.25	0.35	71	-	1LE7003-0CC32-3AA4	31,050	●	▲
0.37	0.5	80	-	1LE7003-0DC22-3AA4	34,300	●	▲
0.55	0.75	80	-	1LE7003-0DC32-3AA4	38,200	●	▲
0.75	1	90S	**S** & L	1LE7003-0EC02-3AA4	45,850	●	▲
1.1	1.5	90L	S & **L**	1LE7003-0EC42-3AA4	54,300	●	▲

Aluminum housing - 1LE7 1E2

Degree of Protection IP55, Insulation Class 'F', Ambient 50°C, Aluminum housing, Method of Cooling - IC411, 415V ± 10%, 50Hz ± 5%, combined 10%, IMB3 (foot mounted) version as per IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Mounting Holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.25	0.35	71	-	1LE7101-0CA22-3AA4	22,950	●	▲
0.37	0.5	71	-	1LE7001-0CA22-3AA4	22,950	●	▲
0.55	0.75	71	-	1LE7001-0CA32-3AA4	24,600	●	▲
0.75	1	80	-	1LE7001-0DA22-3AA4	30,900	●	▲
1.1	1.5	80	-	1LE7001-0DA32-3AA4	31,450	●	▲
1.5	2	90S	**S** & L	1LE7001-0EA02-3AA4	39,850	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7001-0EA43-5AA4	46,650	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting Holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7101-0CB22-3AA4	23,800	●	▲
0.25	0.35	71	-	1LE7001-0CB22-3AA4	23,800	●	▲
0.37	0.5	71	-	1LE7001-0CB32-3AA4	24,000	●	▲
0.55	0.75	80	-	1LE7001-0DB22-3AA4	29,900	●	▲
0.75	1	80	-	1LE7001-0DB32-3AA4	32,100	●	▲
1.1	1.5	90S	**S** & L	1LE7001-0EB02-3AA4	40,950	●	▲
1.5	2	90L	S & **L**	1LE7001-0EB42-3AA4	45,450	●	▲

+ As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected

Click on following symbols provided against respective ordering code for downloading data sheets and general arrangement drawing (GAD).

● Datasheet

▲ GAD

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting Holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
0.18	0.25	71	-	1LE7001-0CC22-3AA4	26,700	●	▲
0.25	0.35	71	-	1LE7001-0CC32-3AA4	27,100	●	▲
0.37	0.5	80	-	1LE7001-0DC22-3AA4	30,950	●	▲
0.55	0.75	80	-	1LE7001-0DC32-3AA4	32,950	●	▲
0.75	1	90S	**S** & L	1LE7001-0EC02-3AA4	42,200	●	▲
1.1	1.5	90L	S & **L**	1LE7001-0EC42-3AA4	49,750	●	▲

Selection & Ordering codes for 1LE7 Motors Aluminum housing

MLFB Position		Voltage code		Construction code	Winding Protection code	Terminal Box code	Incremental LP in INR		
		12th & 13th	Short code	14th	15th	16th	71	80	90
1LE7503 - □□□		■-		□-□■□□	□-□□■□	□-□□□■			
Voltage									
50Hz, 415VΔ#		3-5					□	□	□
50Hz, 240VΔ/415VY#		2-3					□	□	□
50Hz, 380VY		2-1					1,470	1,785	1,995
50Hz, 400VY		2-2					1,470	1,785	1,995
50Hz, 380VΔ		3-3					1,470	1,785	1,995
50Hz, 400VΔ		3-4					1,470	1,785	1,995
50Hz, 500VΔ$		4-0					1,470	1,785	1,995
50Hz, Any Non std voltage mentioned inTable 10.1 (upto 480V)		9-0	M1Y				1,470	1,785	1,995
Voltage other than above		9-0	M1Y				Contact Sales Office		
Customized winding		9-0	M1Y				1470	1785	1995
Type of Construction									
	IMB3	A					□	□	□
	IMV1	G					1,155	1,260	1,680
	IMB5	F					1,155	1,260	1,680
	IMB14	K					1,470	1,785	1,995
	IMB35	J					1,390	1,700	2,350
	IMB34	N					1,470	1,785	1,995

MLFB Position	Voltage code		Construction code	Winding Protection code		Terminal Box code	Incremental LP in INR		
	12th & 13th	Short code	14th	15th		16th	71	80	90
1LE7503 - □□□	■-		□-□■□□	□-□□■□		□-□□□■			
Winding Protection				**MLFB:15th**	**Z Code if any**				
Without protection				A			□	□	□
3x PTC thermistors for tripping (Class F)				B			10,920	10,920	10,920
3x PTC thermistors for tripping (Class B)				B	Q90		10,920	10,920	10,920
Terminal Box Position									
Terminal Box on TOP						4	□	□	□

□ Standard Version
O Without additional charges.

Note:
As industry standard ratings ≤1.5kW are star connected and ratings >1.5kW are delta connected.

@ Voltage code 9-0 in position 12-13 requires additional order code M1Y along with plain text mentioning voltage & frequency.

$ suitable for Grid operation only.

Extra Price Calculations

Accessories/Non std. features are in incremental LP.
Add incremental LP to base price of motor & then offer discount.

Price Add-ons for 1LE7 Motors
Aluminum housing

Options (Non-standard features / Accessories)

Sr. No.	Description	Z-Code	Remarks	Note	71	80	90
Connection and Connection Box							
1	External Grounding (Earthing) Terminal on motor feet	H04			□	□	□
2	Second external grounding (earthing) terminal on motor feet	H70			□	□	□
3	Rotation of the mains terminal box through 90°, entry from DE	R10			○	○	○
Environmental protection							
4	Sea worthy packaging	B12			23,205	23,205	23,205
Colour & Paint Finish							
Paint Shades (If no paint shade is selected, then RAL 7030 is the standard)							
5	Standard Paint Shade - RAL 7030				□	□	□
6	Motor supplied unpainted	S01			○	○	○
Mechanical Design & Degrees of Protection							
7	Mains Terminal box on NDE	H08			On Enquiry		
Rating Plate & Extra Rating Plate							
8	Extra rating plate with identification code - Auxilliary nameplate	Y82			840	840	840
9	Nameplate in accordance with IEC	B59			840	840	840
Shaft & Rotor							
10	Oil Tight shaft	H23	Only for flange motors and gear box assembly		3,360	3,360	3,360
Testing Charges							
11	Witnessing of Routine Test as per IS15999	B65			16,590	16,590	16,590
12	Visual Inspection (Includes Dimension Measurement and paint shade and thickness)	B66			3,360	3,360	3,360
13	Type test as per IS 15999	B83			44,100	44,100	44,100
14	Noise measurement without spectrum analysis with acceptance	B70			On Enquiry		
15	Noise measurement with spectrum analysis with acceptance	B72			On Enquiry		

□ Standard Version
O Without additional charges.

Answering your needs of **Energy Efficient Motors.**

With our technologically advanced in-house test facility for the complete range of IE motors

Based on IEC 60034-30-1, the Indian standard IS 12615 for energy efficient IE2 / IE3 / IE4 motors refers to related standard IS/IEC 60034-2-1 : 2024 'Rotating electrical machines; Part 2-1 for determining losses and efficiency from tests (excluding machines for traction vehicles)'. This calls for technically advanced test set up for testing the motors.

With our in-house state of the art test facility, the complete range of IE2 / IE3 and IE4 motors can be tested and the declared efficiency values can be met.

State-of-the-art test facility for acceptance testing by customers

First company to have in-house facility for testing complete range of IE motors

Efficiency determination as per IEC 60034-2-1 : 2024

Wi-Fi enabled special working area for customers

CHAMPION Series Motors - 355 Frame size

CHAMPION Series. Degree of Prot. IP55, Ins Class 'F'. Ambient 50°C, S1 duty, Method of Cooling - IC411, 415V ±10%, 50Hz ± 5%, combined ±10%. Prices for IMB3 (foot mounted) versions. Ref. Standard: IS:12615 / IEC:60034-1

IE2 efficiency class - 1SE0..N

2 - Pole 3000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1SE0 356-2NC80	3,488,600
315	425	355L	1SE0 357-2NC80*	3,889,200

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1SE0 356-4NB80	3,529,900
315	425	355L	1SE0 357-4NB80	4,049,350

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
160	215	355L	1SE0 356-6NB80	3,116,350
200	270	355L	1SE0 357-6NC80	3,562,800
250	335	355L	1SE0 358-6NB80	3,665,350

IE3 efficiency class - 1LA2..N (for 2, 4 & 6pole) and 1SE0..Y (for 8pole)

CE #

2 - Pole 3000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1LA2 356-2NC80	3,900,700
315	425	355L	1LA2 357-2NC80*	4,246,950

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1LA2 356-4NB80	3,874,500
315	425	355L	1LA2 357-4NB80	4,242,950

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
160	215	355L	1LA2 356-6NB80	3,421,150
200	270	355L	1LA2 357-6NC80	3,910,700
250	335	355L	1LA2 358-6NB80	4,097,700

8 - Pole 750 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
132	180	355L	1SE0 356-8YB80	3,191,900
160	215	355L	1SE0 357-8YB80	3,610,800
200	270	355L	1SE0 358-8YB80*	3,973,300

* Temp. rise limited to 80K

1LA2 & 1SE0 motors in 355L frame & construction with feet effective 6th Nov. 2023 have three mounting holes on the NDE corrosponding to S, M & L.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.

Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34	IMB14
355	0	8	-	4	6	-	-

1PQ0 Series - Separately cooled Converter duty motors for constant torque applications.
Degree of Prot. IP55, Ins Class 'F'. Ambient 50°C, S1 duty, 415V, 50Hz, Class F rise through VFD operation,
Cooling- IC 416.

***IE3* efficiency class - 1PQ0..Y**

2 - Pole 3000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1PQ0 356-2YC80	4,116,250
315	425	355L	1PQ0 357-2YC80	4,541,600

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1PQ0 356-4YB80	3,948,050
315	425	355L	1PQ0 357-4YB80	4,330,150

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
160	215	355L	1PQ0 356-6YB80$	3,486,650
200	270	355L	1PQ0 357-6YC80$	3,972,550
250	335	355L	1PQ0 358-6YB80	4,427,850

8 - Pole 750 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
132	180	355L	1PQ0 356-8YB80	3,674,100
160	215	355L	1PQ0 357-8YB80	4,055,200
200	270	355L	1PQ0 358-8YB80$	4,240,050

* Temp. rise limited to 80K

1PQ0 motors in 355L frame & construction with feet effective 6th Nov. 2023 have three mounting holes on the NDE corrosponding to S, M & L.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union as effective from 1st July 2023.
$ Please contact nearest sales office for CE mark.

Insulated bearings are mandatory for 1PQ0 motors, when operated in constant torque modes below 5Hz of frequency.

Please refer to Price Add-ons for Accessories & prices of insulated bearings.The insulated bearings are NOT included in the above LP.

Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34	IMB14
355	0	8	–	4	6	–	–

CHAMPION Series Motors - 355 Frame size - IE4

CE #

CHAMPION Series. Degree of Prot. IP55, Ins Class 'F'. Ambient 50°C, S1 duty, Method of Cooling - IC411, 415V ±10%, 50Hz ± 5%, combined ±10%. Prices for IMB3 (foot mounted) versions. Ref. Standard: IS:12615 / IEC:60034-1

IE4 efficiency class - 1LA2..W

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1LA2 356-2WC80	4,680,850
315	425	355L	1LA2 357-2WC80*	5,096,350

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1LA2 356-4WA80	4,622,950
315	425	355L	1LA2 357-4WA80	5,091,550
355	475	355L	-	On request

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
160	215	355L	1LA2 356-6WA80	4,082,050
200	270	355L	1LA2 357-6WA80	4,692,850
250	335	355L	1LA2 358-6WA80[&]	4,889,300
275	365	355L	-	On request

8 - Pole 750 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
132	180	355L	1LA2 356-8WB80	4,237,300
160	215	355L	1LA2 357-8WB80	On request
200	270	355L	1LA2 358-8WB80*	On request

1PQ0 Series - Separately cooled Converter duty motors for constant torque applications. Degree of Prot. IP55, Ins Class 'F'. Ambient 50°C, S1 duty, 415V, 50Hz, Class F rise through VFD operation, Cooling- IC 416.

IE4 efficiency class - 1PQ0..W

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1PQ0 356-2WC80	4,939,500
315	425	355L	1PQ0 357-2WC80	5,449,900

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1PQ0 356-4WB80	4,935,050
315	425	355L	1PQ0 357-4WB80	5,412,650

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
160	215	355L	1PQ0 356-6WB80	4,358,300
200	270	355L	1PQ0 357-6WB80	4,965,700
250	335	355L	1PQ0 358-6WB80	5,283,200

[&] Please contact nearest sales office for CE mark.

*Temp.rise limited to 80K

1LA2, 1SE0 & 1PQ0 motors in 355L frame & construction with feet effective 6th Nov. 2023 have three mounting holes on the NDE corrosponding to S, M & L.

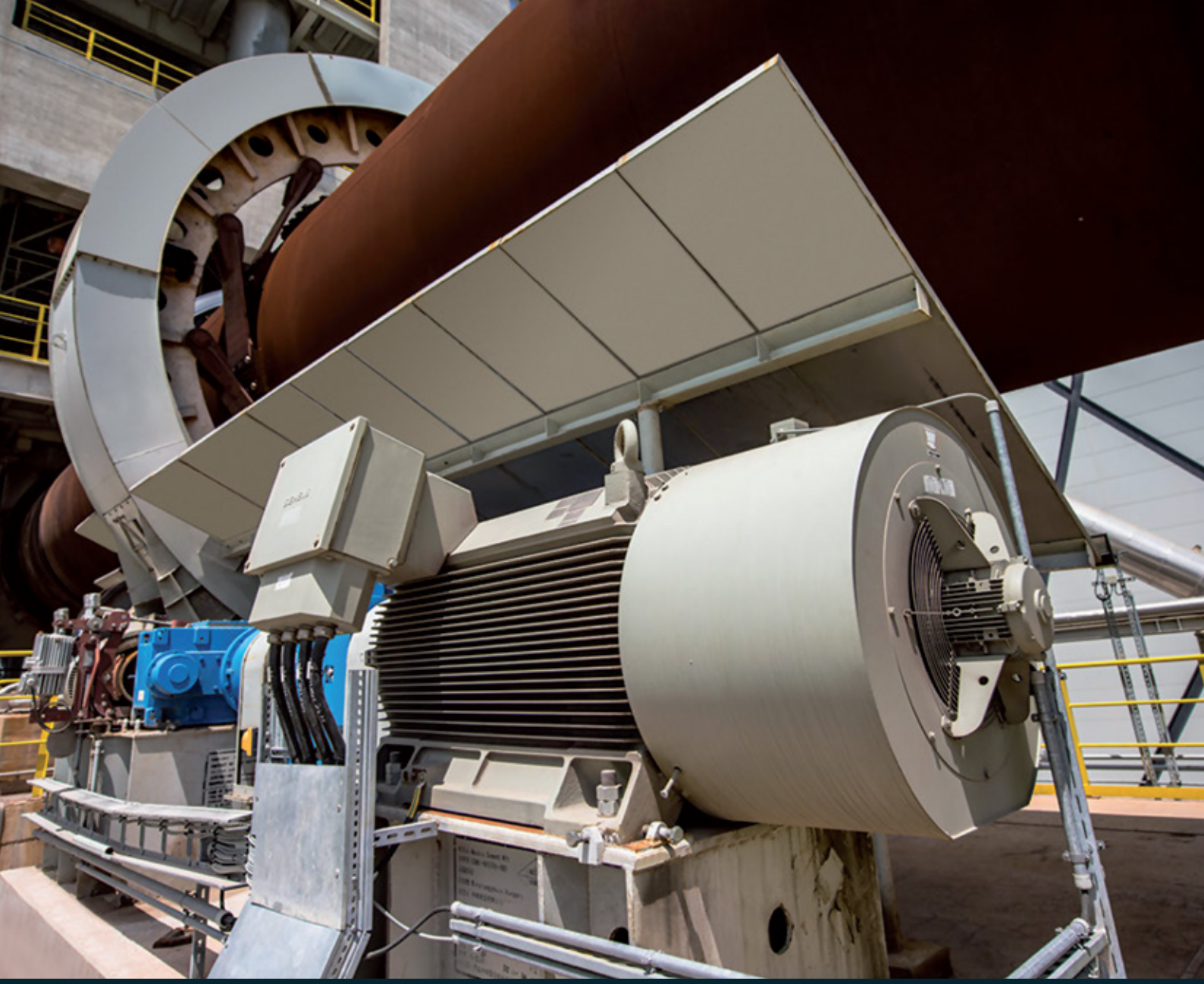
For 1PQ0, LP is inclusive of the blower and inverter grade insulation scheme.

Insulated bearings are mandatory for 1PQ0 motors, when operated in constant torque modes below 5Hz of frequency.

Please refer to Price Add-ons for Accessories & prices of insulated bearings.The insulated bearings are NOT included in the above LP.

Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34	IMB14
355	0	8	-	4	6	-	-



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- High power to weight ratio
- Dual cooling circuit for uniform heat dissipation

For more information call us on 1800 209 1800

INNOMOTICS

1LA8 N-compact Motors - IE3

IE4 available on request

CE #

1LA8 N compact Motors.Degree of Prot. IP55, Ins Class 'F'. 415V ±10%, 50Hz ± 5%, combined ±10%, Cooling - IC411, Prices for IMB3 (foot mounted) versions. Amb. 45°C, S1 duty, Ref. Standard: IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
355	355	1LA8 354-2AC70	5,571,200
400	355	1LA8 356-2AC70	5,720,950
500	355	1LA8 357-2AC70	6,004,100
560	400	1LA8 403-2AC70	on Enquiry
630	400	1LA8 405-2AC70	on Enquiry
710*	400	1LA8 407-2AC00	on Enquiry

4 - Pole 1500 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
355	355	1LA8 353-4AB70	4,767,000
400	355	1LA8 356-4AB70	5,376,800
500	355	1LA8 357-4AB70	5,925,200
560	400	1LA8 404-4YB70	on Enquiry
630	400	1LA8 406-4AB70	on Enquiry
710*	400	1LA8 407-4AB00	on Enquiry
800*	450	1LA8 452-4AC00	on Enquiry
900*	450	1LA8 454-4AC00	on Enquiry
1000*	450	1LA8 456-4AC00	on Enquiry
1125*	500	1LA8 460-4AD00	on Enquiry
1250*	500	1LA8 462-4AD00	on Enquiry

1LA8 2P motors in frames 355 & 400 will have unidirectional fan for CW rotation as viewed from DE. For CCW direction please explicitly specify in the order.

6 - Pole 1000 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
315	355	1LA8 356-6YB70	5,338,350
400	355	1LA8 357-6AB70	5,527,200
450	400	1LA8 402-6AD70	on Enquiry
500	400	1LA8 404-6AD70	on Enquiry
560	400	1LA8 406-6AD70	on Enquiry
630	450	1LA8 452-6AD70	on Enquiry
710*	450	1LA8 454-6AD00	on Enquiry
800*	450	1LA8 456-6AD00	on Enquiry
900*	500	1LA8 460-6AD00	on Enquiry
1000*	500	1LA8 462-6AD00	on Enquiry

8 - Pole 750 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
250	355	1LA8 355-8YB70	4,994,000
315	355	1LA8 357-8AB70	5,641,100
355	400	1LA8 402-8AD70	on Enquiry
400	400	1LA8 404-8AD70	on Enquiry
450	400	1LA8 406-8AD70	on Enquiry
500	450	1LA8 452-8AD70	on Enquiry
560	450	1LA8 454-8AD70	on Enquiry
630	450	1LA8 456-8AD70	on Enquiry
710*	500	1LA8 460-8AD00	on Enquiry
790*	500	1LA8 462-8AD00	on Enquiry

Order No. Suffixes

Frame (shaft height)	Last but one place : Figure denoting supply#				Last place : Figure denoting construction		
	400VΔ, 50Hz / 690V Y, 50Hz	415VΔ, 50Hz	500VΔ, 50Hz	690VΔ, 50Hz	IMB3	IMV1 without canopy	IMB35
355	6	7	5	0	0	8	6
400/450/500						–	–

Please contact nearest sales office for higher ambient temperature requirements.

Note: Applicable Standards - 1) <= 1000 kW - IS 12615/IEC 60034-1
2) >1000kW - IEC 60034-1

IE efficiency is applicable for ratings upto 1000kW.

* Available with 690VD as grid supplied standard voltage. For any other voltages please contact your nearest sales office.

For 1LA8 operation with VFD, insulated bearing at NDE is mandatory and the price has to be considered extra as per extras for accessories and pricing.

CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union.

1PQ8 - N Compact Motors IE3 for Converter (VFD) Duty Applications

IE4 available on request

1PQ8 Series - Separately Cooled. Degree of Prot. IP55, Ins Class 'F'. 415V, 50Hz
Cooling IC 416. Prices for IMB3 (foot mounted) versions. Amb. 45°C, S1 duty, Ref. Standard: IS:12615 / IEC:60034-1

2 - Pole 3000 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
355	355	1PQ8 354-2PC70	6,178,150
400	355	1PQ8 356-2PC70	6,448,300
500	355	1PQ8 357-2PC70	6,687,700
560	400	1PQ8 403-2PC70	on Enquiry
630	400	1PQ8 405-2PC70	on Enquiry
675*	400	1PQ8 407-2PC00	on Enquiry

4 - Pole 1500 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
355	355	1PQ8 353-4PB70	5,200,200
400	355	1PQ8 356-4PB70	5,804,800
500	355	1PQ8 357-4PB70	6,317,050
560	400	1PQ8 404-4PB70	on Enquiry
630	400	1PQ8 406-4PB70	on Enquiry
670*	400	1PQ8 407-4PB00	on Enquiry
760*	450	1PQ8 452-4PC00	on Enquiry
850*	450	1PQ8 454-4PC00	on Enquiry
950*	450	1PQ8 456-4PC00	on Enquiry
1060*	500	1PQ8 460-4PD00	on Enquiry
1180*	500	1PQ8 462-4PD00	on Enquiry

6 - Pole 1000 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
315	355	1PQ8 356-6PB70	5,382,900
400	355	1PQ8 357-6PB70	5,753,650
450	400	1PQ8 402-6PD70	on Enquiry
500	400	1PQ8 404-6PD70	on Enquiry
560	400	1PQ8 406-6PD70	on Enquiry
630	450	1PQ8 452-6PD70	on Enquiry
670*	450	1PQ8 454-6PD00	on Enquiry
760*	450	1PQ8 456-6PD00	on Enquiry
850*	500	1PQ8 460-6PD00	on Enquiry
950*	500	1PQ8 462-6PD00	on Enquiry

8 - Pole 750 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
250	355	1PQ8 355-8PB70	5,406,900
315	355	1PQ8 357-8PB70	6,167,850
355	400	1PQ8 402-8PD70	on Enquiry
400	400	1PQ8 404-8PD70	on Enquiry
450	400	1PQ8 406-8PD70	on Enquiry
500	450	1PQ8 452-8PD70	on Enquiry
560	450	1PQ8 454-8PD70	on Enquiry
630	450	1PQ8 456-8PD70	on Enquiry
670*	500	1PQ8 460-8PD00	on Enquiry
750*	500	1PQ8 462-8PD00	on Enquiry

Order No. Suffixes

Frame (shaft height)	Last but one place : Figure denoting supply#				Last place : Figure denoting construction		
	400VΔ, 50Hz / 690V Y, 50Hz	415VΔ, 50Hz	500VΔ, 50Hz	690VΔ, 50Hz	IMB3	IMV1 without canopy	IMB35
355	6	7	5	0	0	8	6
400/450/500						-	-

Please contact nearest sales office for higher ambient temperature requirements.

Note: Applicable Standards - 1) <= 1000 kW - IS 12615/IEC 60034-1
2) >1000kW - IEC 60034-1

IE efficiency is applicable for ratings upto 1000kW.

* Available with 690VD as standard voltage.

690V Y Design available against requirement. Please contact your nearest Sales Office.

The List price is inclusive of insulated Bearing at NDE, the blower arrangement, 3x PTC thermistors for Alarm, 3x PTC thermistors for Trip, ACH and inverter grade insulation scheme.

Price Add-ons for 1SE0, 1LA2, 1PQ0 & 1LA8 (1PQ8)

Sr. No.	Description	Z-Code	Remarks	Note	Frames 355	Frames 1LA8/1PQ8	Extra as % of LP or Absolute [whichever is lesser]+	
							%	R
Non-standard Winding								
1	Non-standard output	L1Y	Give details in plain text	*	✓	✓	Nil	Nil
2	Non-standard voltage 220-690V and/or Frequency (Grid Supply)		Give details in plain text	#, &	✓	✓	5%	-
3	Class 'H'				✓	✓	7.5%	-
4	Anticlockwise direction	K98	Viewed from drive end		✓	✓	Nil	Nil
5	Direction indicating Arrow	N08			✓	✓	Nil	Nil
Winding Protection								
6	3 PTC - Trip	A11	Class B	@	✓	✓	-	3,310
7	3 + 3 PTC. 3 for Alarm, 3 for Trip	A12	Class B	@	✓	✓	-	6,615
8	6 PTC - Trip	A13	Class B	@,7	✓	✓	-	6,615
9	3 PTC - Trip	A14	Class F	@,7	✓	✓	-	3,310
10	3 + 3 PTC. 3 for Alarm, 3 for Trip	A15	Class F	@,7	✓	✓	-	6,615
11	6 PTC - Trip	A16	Class F	@,7	✓	✓	-	6,615
12	RTDs - 3 Nos. PT 100 Simplex	A60		@	✓	✓	-	11,710
	RTDs - 6 Nos. PT 100 Simplex	A61			✓	✓	-	23,365
13	Epoxy gel coat on winding overhang	C46	Class B rise		✓	✓	2%	-
Non-standard Constructions								
14	Construction IMB35				✓	✓	5%	-
15	Construction IM V1 - without canopy		For 1LA8/ 1PQ8 possible only up to 400 Frame		✓	✓	5%	-
16	Construction IM V1 - with canopy			1	✓	✓	7%	✓
Terminal Box								
17	T. Box on RHS with adaptor piece	K09	For 1LA2, 1SE0 & 1PQ0		✓	✓	-	Nil
18	T. Box on LHS with adaptor piece	K10	For 1LA2, 1SE0 & 1PQ0		✓	✓	-	Nil
19	T. Box on RHS without adaptor piece	K09	For 1LA8 / 1PQ8 only	3	✓	✓	-	Nil
20	T. Box on LHS without adaptor piece	K10	For 1LA8 / 1PQ8 only	3	✓	✓	-	Nil
21	Reducers				✓	✓	-	4,885
22	Fixing of Cable Glands		To be supplied by Sales after approval from Factory		✓	✓	On Enquiry	
23	Flying Leads	K58	Lead length of 3m (approx.)		✓	On Enquiry	5%	-
24	T. box turned 90 deg.	K84	Cable entry from NDE		✓	✓	Nil	Nil
25	T. box turned 180 deg.	K85			✓	✓	Nil	Nil
26	Larger T. Box (one size)	N07			✓	✓	On Enquiry	
Shaft extensions and related modifications								
27	Standard Double Shaft Extension	K16		1	✓	✓	5%	-
28	Non-std. cylindrical Extension	Y55		*	✓	✓	5%	-
29	Non-std. double Shaft Extension	Y56		*,1	✓	✓	10%	-
30	Tapered shaft extension				✓	✓	On Enquiry	
31	Labyrinth seal	K17			✓	✓	-	3,990
Bearings								
32	NU bearing at DE	K20			✓	✓	-	18,745
33	BTDs - 2 Nos. Simplex	A72			✓	✓	-	11,025
34	Provision of threading for fixing Shock Pulse Monitoring [SPM] Probe for vibration measurement				✓	✓	3%	-
Painting								
35	Epoxy base paint	K26	Shade 631 as per IS:5		✓	✓	5%	-
36	Epoxy base paint-other shade	K27			✓	✓	10%	-
37	Normal paint other shade	Y53			✓	✓	5%	-
38	Only Red-oxide coating	K24			✓	✓	No price reduction	

Notes:

1. Not available for 1PQ series motors
2. Certificate shall be provided on additional costs. Please contact sales office for cost.
3. Subsequent change of location from LHS to RHS not possible in 1LA8, 1PQ8. Please contact Sales office.
4. Not for 1LA8/1PQ8 Motors
5. For 355L frame 1SE0/1LA2 in 4-8P and 1LA8 motors, Sheet Metal fan will be given instead of CI when plastic fan is not acceptable.
6. Inverter grade insulation is included in list prices for 1PQ series of motors and 1LA8 series of motors.
7. Prices of ACH, 3x PTCs for Alarm and 3x PTCs for Trip are included in the list price for 1LA8 and 1PQ8 Motors

* Prior quotation from works necessary

@ Auxiliary Terminal will be provided in auxiliary terminal box for 1XB7 322 and above

Prior quotation from works necessary for frequency other than 50Hz

! Please contact sales office

& All 60 motors delivered on or after 1st July 2021 will not be marked CE.

+ Extra Price Calculations

a) Wherever percentage is mentioned, add to LP and then offer discount.
b) Where absolute values are mentioned, same to be directly added to the nett price (No discounts applicable on absolute values).

Price Add-ons for 1SE0, 1LA2, 1PQ0 & 1LA8 (1PQ8)

Sr. No.	Description	Z-Code	Remarks	Note	Frames 355	Frames 1LA8/1PQ8	Extra as % of LP or Absolute [whichever is lesser]+	
							%	R
NS Fan and Fan Cowl								
39	Metallic Fan (for 1SE0/1LA2 series 355 frame 2P motors - CI Fan is standard) all other motors have plastic fan by default	K35	Where Plastic Fan is Std.	1	✓	✓	-	6,825
				5	✓	✓	-	11,025
40	Fan-cowl with canopy	N19			✓	✓	5%	-
41	Clean Flow Fan Cowl (without screen & with canopy)				✓		5%	-
Ingress Protection								
42	Type of Protection IP 56	K52		*,2	10%	10%	-	-
	Type of Protection IP 65	K50		*,2	15%	On Enquiry	-	-
Other Miscellaneous Features								
43	S3/S4 Duty Motors	CDM			✓	✓	-	Nil
44	Anti-condensation heaters 220 - 240V, 1Ph	K45	For Frames 355	@, 7	✓	✓	-	4,885
45	Vibration Severity Grade R	K01	As per [IS:12075]	*	✓	✓	-	On Enquiry
46	Increased Flange accuracy	K04	As per [IS:2223]	*	✓	✓	-	On Enquiry
47	Auxiliary data plate	N09	Specify punching details		✓	✓	Nil	Nil
48	Wooden Packing		Frames 355		✓	✓	-	13,440
			For 1LA8/1PQ8 355		✓	✓	-	23,625
			For 1LA8/1PQ8 400		✓	✓	-	26,670
			For 1LA8/1PQ8 450 and above		✓	✓	-	33,515
49	Sea Worthy Packing		Frames 355		✓	✓	-	40,130
			For 1LA8/1PQ8 355		✓	✓	-	53,360
			For 1LA8/1PQ8 400		✓	✓	-	66,835
			For 1LA8/1PQ8 450 and above		✓	✓	-	80,065
Converter Fed Motors								
50	Inverter grade winding treatment (Voltages < 500V) VPI = Vacuum Pressure Impregnation	VPI	For frame 355 and 1LA8	6	✓	✓	Nil	Nil
	Inverter grade winding for Voltages >500V		For frame 355 and 1LA8		✓	✓	On Enquiry	
51	Insulated Bearing at NDE	L27	1LA2/1PQ0/1SE0 Frames 355		✓	✓	-	56,780
			1LA8 Frames 355 [355 Frame 4-8P]		✓	✓	-	65,100
			1LA8 Frame 355,400 - 2Pole		✓	✓	-	99,750
			1LA8 Frames 400		✓		-	80,485
52	Mounting arrangement for encoder [encoder not in Siemens' scope of supply]	G56	Specific models of Baumer, Leine & Linde, and mutually agreed models during enquiry stage.	*	✓	✓	5%	-
53	Encoder Mounted on motors. Encoder will be supplied by Siemens in makes as indicated in the remarks column		Specific models of Baumer, Leine & Linde, and mutually agreed models during enquiry stage.	*	✓	✓	On Enquiry	
Testing Charges								
54	Witnessing of Routine Test as per IS:325 (IS:15999 wherever applicable)		Frames 355		✓	✓	-	27,565
			Frames 400 - 500		✓	✓	-	42,475
55	Type test as per IS:325 (IS:15999 wherever applicable)		Frames 355	4	✓	✓	-	48,510
			For 1LA8/1PQ8 355 - 400		✓	✓	-	70,560
			For 1LA8/1PQ8 450	*	✓	✓	-	82,740

Notes:

1. Not available for 1PQ series motors
2. Certificate shall be provided on additional costs. Please contact sales office for cost.
3. Subsequent change of location from LHS to RHS not possible in 1LA8, 1PQ8. Please contact Sales office.
4. Not for 1LA8/1PQ8 Motors
5. For 355L frame 1SE0/1LA2 in 4-8P and 1LA8 motors, Sheet Metal fan will be given instead of CI when plastic fan is not acceptable.
6. Inverter grade insulation is included in list prices for 1PQ series of motors and 1LA8 series of motors.
7. Prices of ACH, 3x PTCs for Alarm and 3x PTCs for Trip are included in the list price for 1LA8 and 1PQ8 Motors

* Prior quotation from works necessary

@ Auxiliary Terminal will be provided in auxiliary terminal box for 1XB7 322 and above

\# Prior quotation from works necessary for frequency other than 50Hz

! Please contact sales office

& All 60 motors delivered on or after 1st July 2021 will not be marked CE.

+ Extra Price Calculations

a) Wherever percentage is mentioned, add to LP and then offer discount.
b) Where absolute values are mentioned, same to be directly added to the nett price (No discounts applicable on absolute values).

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VFD capable, IVIC–C as per IEC 60034-18-41
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Suitable for high vibration & shock applications
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Design & Efficiency Variant					
6th	7th	← Position in the MLFB			
			IEC (Efficiency Class)		
			50Hz	60Hz P50	60Hz P60
0	1	Single speed - IE2 50Hz	IE2	IE2 or IE1	IE2 or IE1
0	3	Single speed - IE3 50Hz	IE3	IE3 or IE2	IE3 or IE2
0	4	Single speed - IE4 50Hz	IE4	IE4 or IE3	IE4 or IE3
9	1	Single speed - IE2 50Hz Premium Insulation scheme	IE2	IE2 or IE1	IE2 or IE1
9	3	Single speed - IE3 50Hz Premium Insulation scheme	IE3	IE3 or IE2	IE3 or IE2
9	4	Single speed - IE4 50Hz Premium Insulation scheme	IE4	IE4 or IE3	IE4 or IE3
Note: Some motors with 9 in 6th position may have a lower efficiency class than depicted by 7th position					

Main Series (Low Voltage Motors - Totally Enclosed - Surface Cooled)					
1st	2nd	3rd	4th	← Position in the MLFB	
1	L	E	7	Self ventilated by a shaft mounted fan	TEFC (IC411)
				(+Z = F70) Force-ventilated by machine mounted separately driven fan	TEBC (IC416) earlier 1PQ

Note:

Motors with a "0" in position no. 6 of the MLFB are provided with a standard insulation scheme which make them even suitable for converter fed operation as below:

$U_N \leq 480V$ for frames 71 to 225
$U_N \leq 500V$ for frames 250 to 315

Material of Housing & Design	
5th	← Position in the MLFB
0	Aluminum housing - standard output
1	Aluminum housing - reduced output - adapted winding
5	Cast Iron - standard output
6	Cast Iron - reduced output - adapted winding

The 16 digit MLFB Structure for IEC Motors from India.

The New 16 digit MLFB Structure for IEC Cage Induction Motors manufactured in India has been explained here. This chart has been deliberately kept simple for better and easier understanding of the MLFB concept and therefore not all cases may be covered to avoid complicating matters by giving exhaustive information. Only the certain typical values of each digit have been considered as this chart is only to facilitate easy understanding of the new 16 digit structure of the MLFB. For further details and related codes please refer apporpriate reference material.

Important: It should be noted that all of the represented MLFB combinations may not be realisable.This chart has been devised to serve as a guide to assist in understanding the MLFB of an existing motor and should not be used to build a new MLFB at user end.

Reference Document Basis: 6ZB5731-0AD30-0AA0 - Structuring of the 16 digit order number for standard motors 1LE, 1MB and 1PC of SAG. There are certain modification w.r.t. Indian market requirement.

Example		
1	1LE7503-2CB23-5JB5-Z, Q90+R50	
	1LE	New Generation Low Voltage Standard Motor
	7	IEC motor made in India
	5	Cast Iron Housing - Standard output
	0	Single Speed Motor
	3	Efficiency class IE3 as per IS:12615-2011
	2C	Shaft Height 250
	B	4Pole
	2	Frame length M, 55kW
	3-5	415VΔ, 50Hz
	J	IMB35
	B	3x PTCs for trip
	5	T. Box on RHS as viewed from DE
	Option Z	Q90 (Class B PTCs) + R50 (One size larger T. Box)

Important:

For motors in frames 71 - 225 when required for a voltage U_N > 480V, an enquiry with the works is necessary.

All 1LE76 and 60 Hz motors which are delivered on or after 1st July 2021 will not carry CE mark.

Shaft Height (Position 8 & 9)					
8th \ 9th	A	B	C	D	E
0	56	63	71	80	90
1	100	112	132	160	180
2	200	225	250	280	-
3	315	-			

Motor Protection		
15 th	← Position in the MLFB	
A		Without winding protection
B		3x PTC thermistors for tripping (Class F)
C		6x PTC thermistors - 3x for alarm and 3x for tripping (Class F)
H		3x PT100 resistance thermometers in stator winding - 2 wire
J		6x PT100 resistance thermometers in stator winding - 2 wire
K		1x Temperature sensor - PT1000
L		2x Temperature sensor - PT1000
Z	Q1B	3x PT100 resistance thermometers in stator winding - 3 wire from sensor
Z	Q2B	6x PT100 resistance thermometers in stator winding - 3 wire from sensor
Z	Q3A	3x Bi-metallic sensors for trip operation (Thermostats)
Z	Q9A	6x Bi-metallic sensors (3x for alarm, 3x for tripping) (Thermostats)
Addition to Position 15 (Value of Positon 15 = B)		
B	-Z = Q11	Additional 3x PTC thermistors for tripping
Addition to Position 15 (Value of Positon 15 = B or C with or without Q11)		
B or C	-Z = Q90	Class B PTC thermistors (Alarm 130°C, Trip 140°C)
Only few cases shown as examples. For further options, please consult nearest Sales office.		

Position in the MLFB	1st	2nd	3rd	4th	5th	6th	7th		8th	9th	10th	11th	12th		13th	14th	15th	16th	Code for Special Non-standard design, accessories etc.
Code suffixes																			
Type of digit in the position	N	A	A	N	N	N	N	-	N	A	A	N	N	-	N	A	A	N	-
MLFB	1	L	E	7	5	0	3	-	2	C	B	2	3	-	5	J	H	5	-
																			Z

Please refer to page 2 of 2 for frame, pole and output co-ordination tables.

Please refer to page 2 of 2

No. of Poles		
10th	← Position in MLFB	
A	2	Single Speed
B	4	
C	6	
D	8	

Voltage Code					
Only some generally required codes shown. For details consult BD.					
Position 12 & 13	Frequency 50Hz		Position 12 & 13	Frequency 60Hz Standard 50Hz Power	
	Δ	Y		Δ	Y
18	200VΔ	(347VY)	90	230VΔ	400VY
20		360VY			
21	220VΔ	380VY	90	253VΔ	440VY
22	230VΔ	400VY	90	265VΔ	460VY
23	240VΔ	415VY	90	276VΔ	480VY
27	(289VΔ)	500VY	90	332VΔ	575VY
32	360VΔ				
33	380VΔ	660VY	90	440VΔ	757VY
34	400VΔ	690VY	90	460VΔ	-
35	415VΔ	(720VY)	90	480VΔ	-
36	440VΔ				
37	460VΔ				
38	480VΔ				
40	500VΔ	(866VY)	90	575VΔ	-
41	525VΔ				
43	(575VΔ)	1000VY	90	661VΔ	-
46	660VΔ	-	90	-	-
47	690VΔ	-	90	-	-
90	..with M1Y - for any other voltage other than those covered above.				
Blue letters in light blue background are the ones being considered currently to be offered with "defined" Voltage codes.					
Brown letters in light yellow background will be presently offered with 9-0 and M1Y.					
Notes: Not all voltage codes may be possible for MLFB:5 = 5 or 6					

Terminal Box Position	
16th	← Position in the MLFB
4	Terminal box on TOP
5	Terminal box on RHS
6	Terminal box on LHS
7	Terminal box at bottom (only for horizontal constructions without feet)

Construction Code	
14th	← Position in the MLFB
A	IM B3, IM B6, IM B7, IM B8, IM V5, IM V6, *(stamped IM B3)*
B	
C	IM V5 / IM 1011 (for frames up to 315L only)
D	IM V6 / IM 1031 (for frames up to 315L only)
E	
F	IM B5 / IM 3001, IM V1, IM V3, ***(stamped IM B5)*** flange (upto 315M only)
G	IM V1 / IM 3011 flange
H	IM V3 / IM 3031 flange (for frames up to 315M only)
J	IM B35 / IM 2001 flange
K	IM B14 / IM 3601, IM V19 / IM 3631, IM V18 / IM 3611 ***(stamped IMB14)***; standard flange (frames up to 132M only)
L	IM V19 / IM 3631 standard flange (for frames up to 132M only)
M	IM V18 / IM 3611 standard flange (for frames up to 132M only)
N	IM B34 / IM 2101 standard flange (for frames up to 132M only)
T	IM B6 / IM 1051 (for frames up to 315L only)
U	IM B7 / IM 1061 (for frames up to 315L only)
V	IM B8 / IM 1071 (for frames up to 315L only)
W	IMV15
Y	IMV36 **(IMV35 when used with B59)** (frames up to 315L only)

INNOMOTICS

Innomotics Moves! - 1LE7

Position in the MLFB	1st	2nd	3rd	4th	5th	6th	7th		8th	9th	10th	11th	12th		13th	14th	15th	16th
Code suffixes / Type of digit in the position	N	A	A	N	N	N	N	-	N	A	A	N	N	-	N	A	A	N
MLFB	1	L	E	7	5	0	3	-	2	C	B	2	3	-	5	J	H	5	-	Z

Material of Housing & Design	
5th	← Position in the MLFB
0	Aluminum housing - standard output
1	Aluminum housing - reduced output - adapted winding
5	Cast Iron - standard output
6	Cast Iron - reduced output - adapted winding

Note:
Motors with a "0" in position no. 6 of the MLFB are provided with a standard insulation scheme which make them even suitable for converter fed operation as below:

$U_N \leq 480V$ for frames 71 to 225
$U_N \leq 500V$ for frames 250 to 315

Important:
For motors in frames 71 - 225 when required for a voltage $U_N > 480V$, an enquiry with the works is necessary.

The 16 digit MLFB Structure for IEC Motors from India.

The New 16 digit MLFB Structure for IEC Cage Induction Motors manufactured in India has been explained here.
This chart has been deliberately kept simple for better and easier understanding of the MLFB concept and therefore not all cases may be covered to avoid complicating matters by giving exhaustive information. Only the certain typical values of each digit have been considered as this chart is only to facilitate easy understanding of the new 16 digit structure of the MLFB. For further details and related codes please refer apporpriate reference material.

Important: ***It should be noted that all of the represented MLFB combinations may not be realisable. This chart has been devised to serve as a guide to assist in understanding the MLFB of an existing motor and should not be used to build a new MLFB at user end.***

Reference Document Basis: 6ZB5731-0AD30-0AA0 - Structuring of the 16 digit order number for standard motors 1LE, 1MB and 1PC of SAG. There are certain modification w.r.t. Indian market requirement.

Examples		
1	1LE7 **6**03-2CB23-4JC5-Z, Q90+R50	
	1LE	New Generation Low Voltage Motor
	7	IEC motor made in India
	6	**Cast Iron Housing - reduced output - adapted wdg.**
	0	Single Speed Motor
	3	Efficiency class IE3 as per IS:12615-2011
	2C	Shaft Height 250
	B	4Pole
	2	Frame length M, 45kW
	3-4	400VΔ, 50Hz
	J	IMB35
	B	3x PTCs for alarm, 3x PTCs for trip
	5	T. Box on RHS as viewed from DE
	Option Z	Q90 (Class B PTCs) + R50 (One size larger T. Box)

8 pole motors are possible in IE3 only.

All 1LE76 and 60 Hz motors which are delivered on or after 1st July 2021 will not carry CE mark.
1LE76 motors are not currently offered in IE4 executions.

For 1LE75/ 1LE70

Frame Size (8th & 9th Position)		No. of Poles (10th Position)		Construction Length (Output assignment for Standard output versions-single speed motors) — 11th Position						
				0	1	2	3	4	5	6
				Length S		Length M		Length L		
Code	SH	Code	Poles	Output (kW)						
0C	71	A	2			0.37 kW	0.55 kW			
		B	4			0.25 kW	0.37 kW			
		C	6			0.18 kW	0.25 kW			
		D	8				0.12 kW			
0D	80	A	2			0.75 kW	1.1 kW			
		B	4			0.55 kW	0.75 kW			
		C	6			0.37 kW	0.55 kW			
		D	8			0.18 kW	0.25 kW			
0E	90	A	2	1.5 kW				2.2 kW		
		B	4	1.1 kW				1.5 kW		
		C	6	0.75 kW				1.1 kW		
		D	8	0.37 kW				0.55 kW		
1A	100	A	2						3.7kW	
		B	4					2.2 kW		
		C	6					1.5 kW		
		D	8					0.75 kW	1.1 kW	
1B	112	A	2							
		B	4			3.7 kW				
		C	6			2.2 kW				
		D	8			1.5 kW				
1C	132	A	2	5.5 kW	7.5 kW					
		B	4	5.5 kW		7.5 kW				
		C	6		3.7 kW		5.5 kW			
		D	8	2.2 kW						
1D	160	A	2			11 kW	15 kW	18.5 kW		
		B	4			11kW		15 kW		
		C	6			7.5 kW		11 kW		
		D	8			3.7 kW	5.5 kW	7.5 kW		
1E	180	A	2			22 kW				
		B	4			18.5 kW		22 kW		
		C	6					15 kW		
		D	8					11 kW		
2A	200	A	2					30 kW	37 kW	
		B	4						30 kW	
		C	6					18.5 kW	22 kW	
		D	8						15 kW	
2B	225	A	2			45 kW				
		B	4	37 kW		45 kW				
		C	6			30 kW				
		D	8	18.5 kW		22 kW				
2C	250	A	2			55 kW				
		B	4			55 kW				
		C	6			37 kW				
		D	8			30 kW				
2D	280	A	2	75 kW		90 kW				
		B	4	75 kW		90 kW				
		C	6	45 kW		55 kW				
		D	8	37 kW		45 kW				
3A	315	A	2	110 kW		132 kW		160 kW		200 kW
		B	4	110 kW		132 kW		160 kW		200kW
		C	6	75 kW		90 kW		110 kW		132 kW
		D	8	55 kW		75 kW		90kW	110kW	

For 1LE76/ LE71

Frame Size (8th & 9th Position)		No. of Poles (10th Position)		Construction Length (Output assignment for reduced output versions-single speed motors) — 11th Position						
				0	1	2	3	4	5	6
				Length S		Length M		Length L		
Code	SH	Code	Poles	Output (kW)						
0C	71	A	2			0.25 kW	0.37 kW			
		B	4			0.18 kW	0.25 kW			
		C	6			0.12 kW	0.18 kW			
		D	8							
0D	80	A	2			0.55 kW	0.75 kW			
		B	4			0.37 kW	0.55 kW			
		C	6			0.25 kW	0.37 kW			
		D	8			0.12kW	0.18 kW			
0E	90	A	2	1.1 kW				1.5 kW		
		B	4	0.75 kW				1.1 kW		
		C	6	0.55 kW				0.75 kW		
		D	8	0.25 kW				0.37 kW		
1A	100	A	2						2.2kW	
		B	4					1.5 kW		
		C	6					1.1 kW		
		D	8					0.55 kW	0.75 kW	
1B	112	A	2							
		B	4			2.2 kW				
		C	6			1.5 kW				
		D	8			1.1 kW				
1C	132	A	2	3.7 kW	5.5 kW					
		B	4	3.7 kW		5.5 kW				
		C	6		2.2 kW		3.7 kW			
		D	8	1.5 kW						
1D	160	A	2			9.3kW	11 kW	15 kW		
		B	4			9.3kW		11 kW		
		C	6			5.5 kW		9.3kW		
		D	8			2.2 kW	3.7 kW	5.5 kW		
1E	180	A	2			18.5 kW				
		B	4			15 kW		18.5 kW		
		C	6					11 kW		
		D	8					9.3 kW		
2A	200	A	2					22 kW	30 kW	
		B	4						22 kW	
		C	6					15 kW	18.5 kW	
		D	8						11kW	
2B	225	A	2			37 kW				
		B	4	30 kW		37 kW				
		C	6			22 kW				
		D	8	15 kW		18.5 kW				
2C	250	A	2			45 kW				
		B	4			45 kW				
		C	6			30 kW				
		D	8			22 kW				
2D	280	A	2	55 kW		75 kW				
		B	4	55 kW		75 kW				
		C	6	37 kW		45 kW				
		D	8	30 kW		37 kW				
3A	315	A	2	90 kW		110 kW		132 kW		160 kW
		B	4	90 kW		110 kW		132 kW		160kW
		C	6	55 kW		75 kW		90 kW		110 kW
		D	8	45 kW		55 kW		75kW	90kW	

16 Digit MLFB Structure as applicable to Innomotics Moves! India IEC Platform Motors - (2 of 2)

INNOMOTICS Moves! 1MB7

INNOMOTICS

Shaft Height (Position 8 & 9)					
8th \ 9th	A	B	C	D	E
0				80	90
1	100	112	132	160	180
2	200	225	250	280	-
3				-	

Motor Protection		
15th	Z code if any	← Position in the MLFB
B		3x PTC thermistors for tripping
C		6x PTC thermistors - 3x for alarm and 3x for tripping
H		3x PT100 resistance thermometers in stator winding - 2 wire
J		6x PT100 resistance thermometers in stator winding - 2 wire
B	Q60	3x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 2 wire
B	Q61	3x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 2 wire
C	Q60	6x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 2 wire
C	Q61	6x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 2 wire
K		Embedded temperature sensor- PT1000
L		2x Embedded temperature sensor- PT1000
B	Q35	3x PTC thermistors for tripping + Embedded temperature sensor- PT1000
B	Q36	3x PTC thermistors for tripping + 2x Embedded temperature sensor- PT1000
C	Q35	6x PTC thermistors for tripping + Embedded temperature sensor- PT1000
C	Q36	6x PTC thermistors for tripping + 2x Embedded temperature sensor- PT1000
Q		3x PT100 resistance thermometers in stator winding - 3 wire
R		6x PT100 resistance thermometers in stator winding - 3 wire
B	Q63	3x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 3 wire
B	Q64	3x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 3 wire
C	Q63	6x PTC thermistors for tripping + 3x PT100 resistance thermometers in stator winding - 3 wire
C	Q64	6x PTC thermistors for tripping + 6x PT100 resistance thermometers in stator winding - 3 wire

Only few cases shown as examples. For further options, please consult nearest Sales offi ce.

Terminal Box Position	
16th	← Position in the MLFB
4	Terminal box on TOP
5	Terminal box on RHS
6	Terminal box on LHS

Design & Efficiency Variant		
6th	7th	← Position in the MLFB
6	3	Ex db IIB - IE3 50Hz

Note: For premium insulation scheme versions, ("8" in position 5), IE class may be the next lower as compared to that indicated by 7th position of the MLFB. This is due to lesser copper content due to premium insulation scheme.

Special remarks for more clarity

Main Series (Low Voltage Motors - Totally Enclosed - Surface Cooled - Oberflächengekühlte)				
1st	2nd	3rd	4th	← Position in the MLFB
1	M	B	7	Motors for special ambient conditions (Ex prot for Haz locations) TEFC (IC411)

Note:
Motors with a "5" in position no. 5 of the MLFB are provided with a standard insulation scheme which make them even suitable for converter fed operation as below:

$U_N \leq 480V$ for frames 80 to 225
$U_N \leq 500V$ for frames 250 - 280

	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	
Position in the MLFB																	Code for Special Non-standard design, accessories etc.
Code suffixes																	
Type of digit in the position	N	A	A	N	N	N	N	N	A	A	N	N	N	A	A	N	
MLFB	1	M	B	7	5	6	3	2	C	B	2	3	5	J	K	5	Z

Note regarding Codes
Codes which are of the nature ANA are to be suffixed without using a "-Z". Codes which are of the nature ANN are Z codes and are to be suffixed after the MLFB is suffixed with a "-Z".

Material of Housing & Design	
5th	← Position in the MLFB
5	Cast Iron - standard insulation scheme
8	Cast Iron - premium insulation scheme

The 16 digit MLFB Structure for Kalwa Make IEC Motors

The New 16 digit MLFB Structure for IEC Cage Induction Motors made in Kalwa has been explained here. This chart has been deliberately kept simple for better and easier understanding of the MLFB concept and therefore not all cases may be covered to avoid complicating matters by giving exhaustive information.Only the certain typical values of each digit have been considered as this chart is only to facilitate easy understanding of the new 16 digit structure of the MLFB. For further details and related codes please refer apporpriate reference material.

Important: It should be noted that all of the represented MLFB combinations may not be realisable. This chart has been devised to serve as a guide to assist in understanding the MLFB of an existing motor and should not be used to build a new MLFB at user end.

Reference Document Basis: 6ZB5731-0AD30-0AA0 - Structuring of the 16 digit order number for standard motors 1LE, 1MB and 1PC of SAG. There are certain modification w.r.t. Indian market requirement.

Examples		
1	1MB7563-2CB23-5JB5-Z, L05	
	1MB	Motor for spl. ambient condition (Ex prot for Haz area)
	7	IEC motor made in India
	5	Cast Iron Housing - Standard Insulation Scheme
	6	Ex db IIB motor for use in Zone 1
	3	Efficiency class IE3 as per IS:12615-2018
	2C	Shaft Height 250
	B	4Pole
	2	Frame length M, 55kW
	3-5	415VΔ, 50Hz
	J	IMB35
	B	3x PTCs for trip
	5	T. Box on RHS as viewed from Driving End
	Option Z	Standard Double Shaft Extension
2	1MB7853-1BC23-4MA4-Z, H00	
	1MB	Motor for spl. ambient condition (Ex prot for Haz area)
	7	IEC motor made in India
	8	Cast Iron Housing - Special Insulation Scheme
	6	Ex db IIB motor for use in Zone 1
	3	Efficiency class IE3 as per IS:12615-2018
	1B	Shaft Height 112
	C	6P
	2	Frame length M, 2.2kW
	3-4	400V, 50Hz
	M	IMV18
	A	Without winding protection
	4	T. Box location standard - TOP
	Option Z	H00 - Canopy (Protective Cover)

Important:
For motors in frames 80 - 160 when required for a voltage UN > 480V, an enquiry with the works is necessary.

Frame Size		No. of Poles		Construction Length (Output assignment for single speed standard output motors									
				11th Position (as applicable for 0 or 5 in position 5)									
				0	1	2	3	4	5	6	7	8	9
8th & 9th Position		10th Position		Length S		Length M		Length L					
Code	SH	Code	Poles	Standard Output									
0D	80	A	2			0.75 kW	1.1 kW						
		B	4			0.55 kW	0.75kW						
		C	6			0.37 kW	0.55kW						
0E	90	A	2	1.5 kW				2.2 kW					
		B	4	1.1 kW				1.5 kW					
		C	6	0.75 kW									
1A	100	A	2						3.7kW				
		B	4					2.2 kW					
		C	6				1.1 kW						
1B	112	A	2										
		B	4			3.7 kW							
		C	6		1.5 kW								
1C	132	A	2	5.5 kW	7.5 kW								
		B	4	5.5 kW		7.5 kW							
		C	6		2.2 kW	3.7 kW	5.5 kW						
1D	160	A	2			11 kW	15 kW	18.5 kW					
		B	4			11kW		15 kW					
		C	6			7.5 kW		11 kW					
1E	180	A	2			22 kW							
		B	4			18.5 kW		22 kW					
		C	6					15 kW					
2A	200	A	2					30 kW	37 kW				
		B	4						30 kW				
		C	6					18.5 kW	22 kW				
2B	225	A	2			45 kW							
		B	4	37 kW		45 kW							
		C	6			30 kW							
2C	250	A	2			55 kW							
		B	4			55 kW							
		C	6			37 kW							
2D	280	A	2	75 kW		90 kW							
		B	4	75 kW		90 kW							
		C	6	45 kW		55 kW							

No. of Poles	
10th	← Position in the MLFB
A	2
B	4
C	6

Single Speed Motors

Construction Code	
14th	← Position in the MLFB
A	IM B3, IM B6, IM B7, IM B8, IM V5, IM V6, ***(stamped IM B3)***
B	
C	IM V5 / IM 1011
D	IM V6 / IM 1031
E	
F	IM B5 / IM 3001, IM V1, IM V3, ***(stamped IM B5)*** flange
G	IM V1 / IM 3011 flange
H	IM V3 / IM 3031 flange
J	IM B35 / IM 2001 flange
K	IM B14 / IM 3601, IM V19 / IM 3631, IM V18 / IM 3611 ***(stamped IMB14);*** standard flange
L	IM V19 / IM 3631 standard flange
M	IM V18 / IM 3611 standard flange
N	IM B34 / IM 2101 standard flange
P - S	Reserved for future use
T	IM B6 / IM 1051
U	IM B7 / IM 1061
V	IM B8 / IM 1071
W	IMV15
Y	IMV35

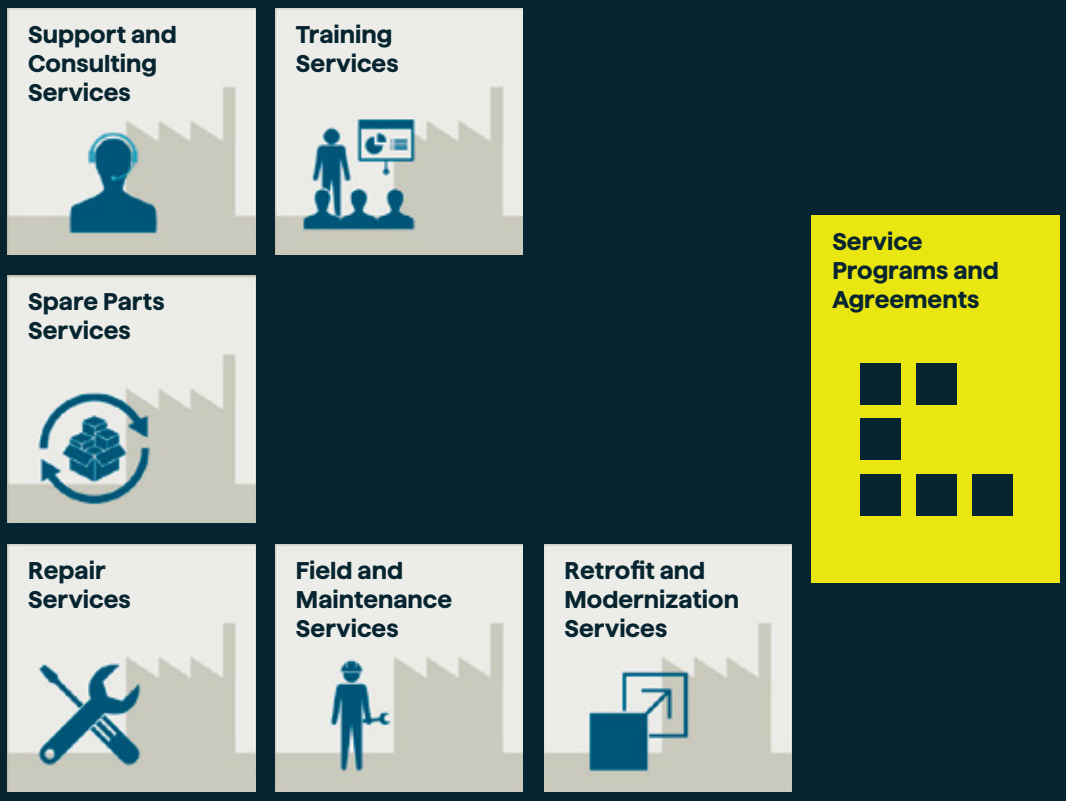
Protective Cover	
H00	protective cover

*) order code for protective cover: H00

Voltage Code			
Only some generally required codes shown. For details consult BD.			
Position 12 & 13	Frequency 50Hz		Position 12 & 13
	Δ	Y	
01	230VΔ	-	01
02	-	400VY	02
03	-	500VY	03
04	400VΔ	-	04
05	500VΔ	-	05
06	-	690VY	06
18		(347VY)	90
20		360VY	
21	220VΔ	380VY	90
22	230VΔ	400VY	90
23	240VΔ	415VY	90
27	(289VΔ)	500VY	90
32	360VΔ		
33	380VΔ	660VY	90
34	400VΔ	690VY	90
35	415VΔ		90
36	440VΔ		
37	460VΔ		
38	480VΔ		
40	500VΔ		90
41	525VΔ		
43	(575VΔ)		90
46	660VΔ		90
47	690VΔ		90
90	..with M1Y - for any other voltage other than those covered above.		

Please contact nearest sales office to get more information on voltage codes available to offer other than 415V.

16 Digit MLFB Structure as applicable to Siemens India IEC Platform Motors - (1/2) - Standard output



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INNOMOTICS

Notes

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