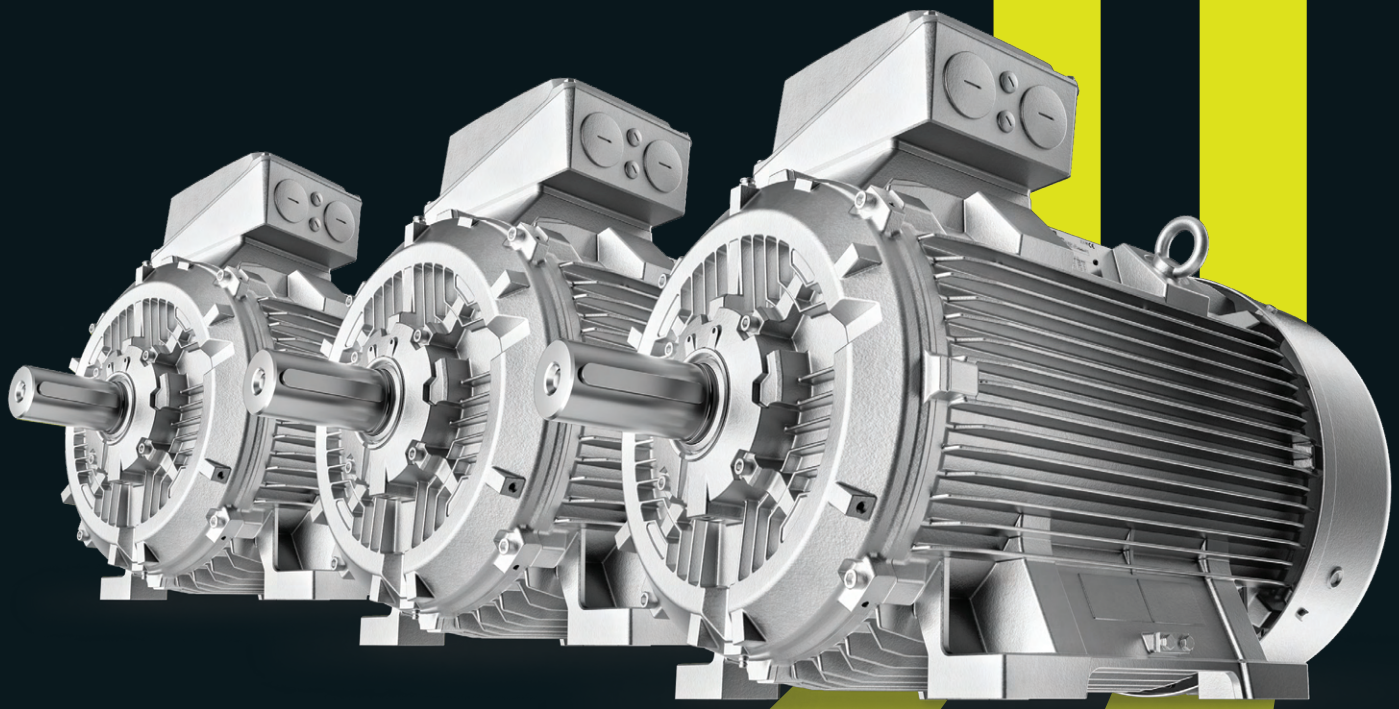
INNOMOTICS

Redefining reliable motion for a better tomorrow



List Price LP-Mot / 206
eff. 1st August, 2025

Motor configuration at your fingertips

Introducing SPC tool – an online configurator tool for Innomotics Moves! 1LE7 Motors

Product Configuration tool: Getting customized Innomotics Moves! 1LE7 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! 1LE7 motor 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.

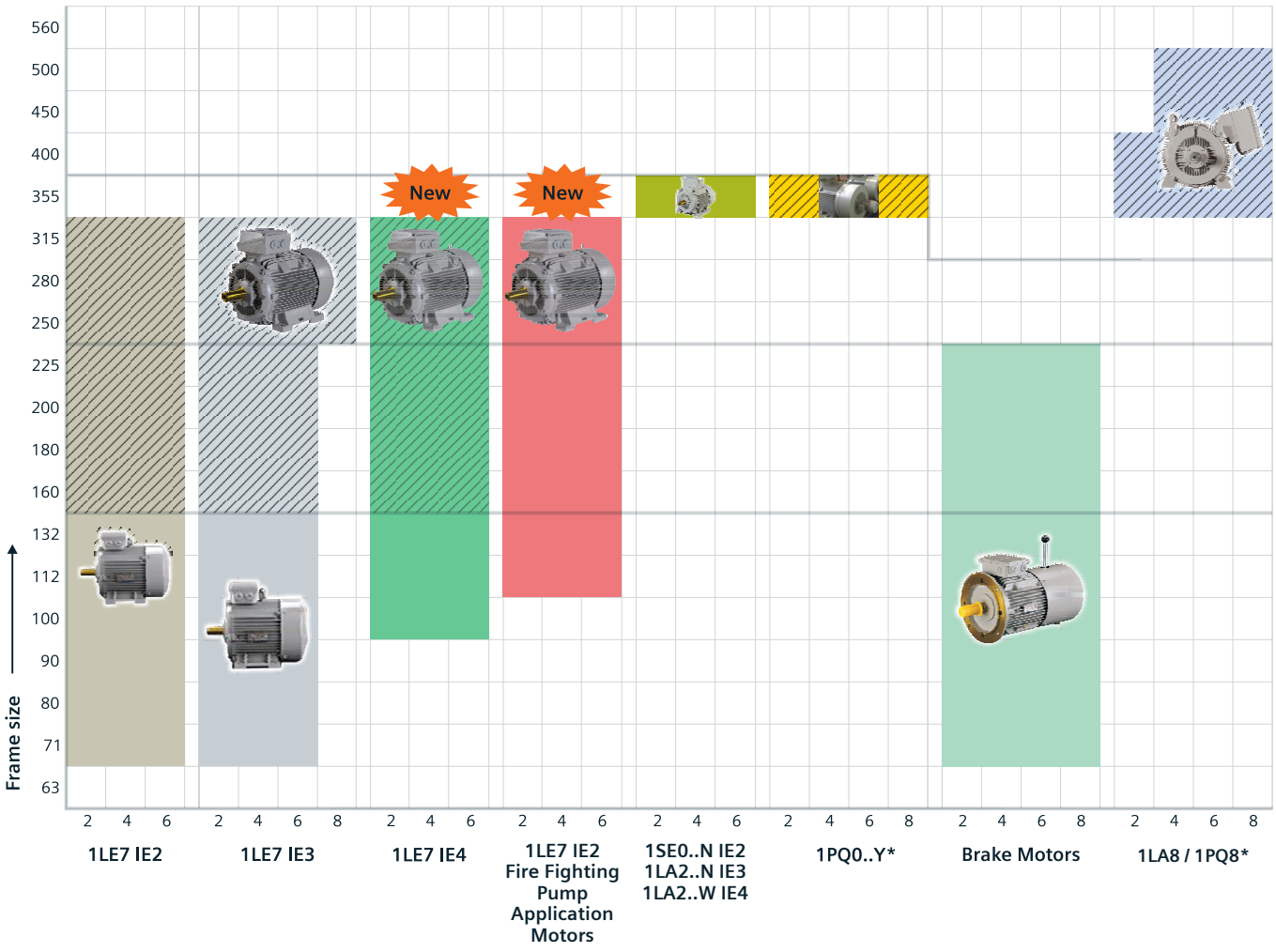
INNOMOTICS

Index

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

- This replaces our price list LP-Mot/205, 1st July 2024.
- 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 160 onwards.

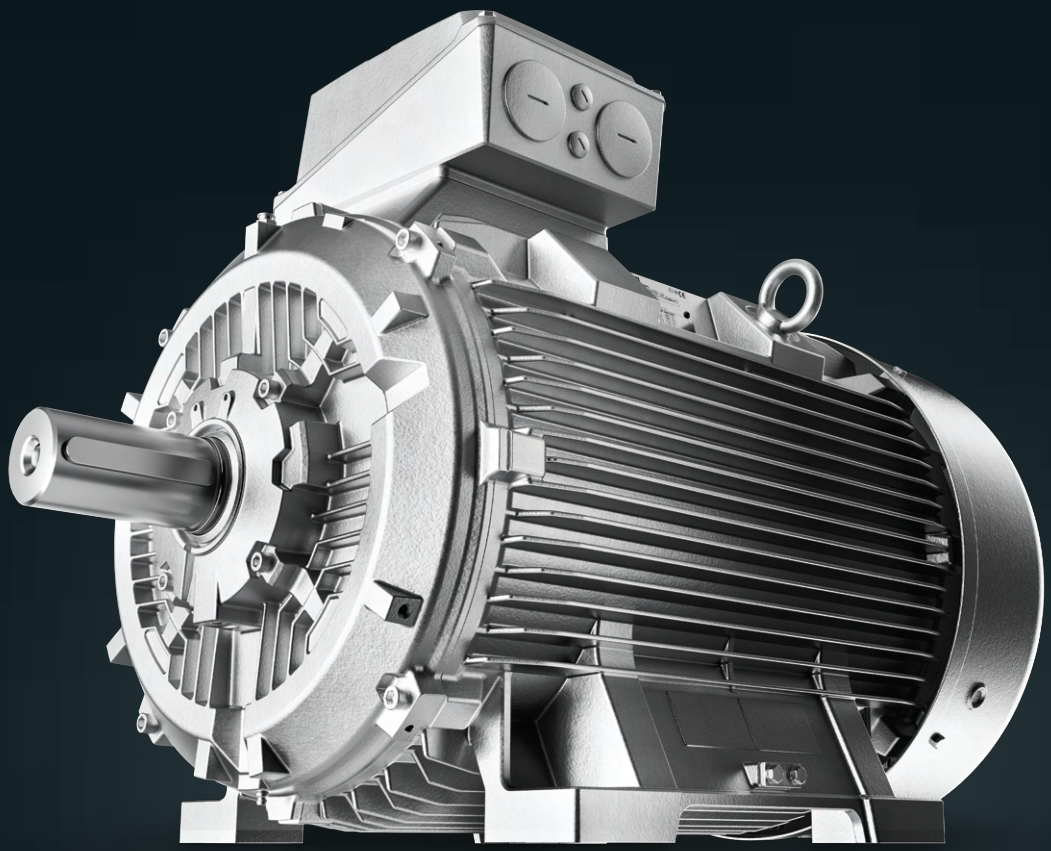
* 1PQ0..Y & 1PQ8 motor is available in IC416 cooling only.

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 Moves!
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#	22,940	●	▲
0.37	0.5	71	-	1LE7501-0CA22-3AA4#	22,940	●	▲
0.55	0.75	71	-	1LE7501-0CA32-3AA4#	24,610	●	▲
0.75	1	80	-	1LE7501-0DA22-3AA4	28,080	●	▲
1.1	1.5	80	-	1LE7501-0DA32-3AA4	30,535	●	▲
1.5	2	90S	**S** & L	1LE7501-0EA02-3AA4	38,685	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7501-0EA43-5AA4	45,315	●	▲
3.7	5	100L	-	1LE7501-1AA53-5AA4	59,030	●	▲
5.5	7.5	132S	**S** & M	1LE7501-1CA03-5AA4	92,105	●	▲
7.5	10	132S	**S** & M	1LE7501-1CA13-5AA4	99,840	●	▲
11	15	160M	**M** & L	1LE7501-1DA23-5AA4	2,05,185	●	▲
15	20	160M	**M** & L	1LE7501-1DA33-5AA4	2,28,770	●	▲
18.5	25	160L	M & **L**	1LE7501-1DA43-5AA4	2,73,950	●	▲
22	30	180M	**M** & L	1LE7501-1EA23-5AA4	3,07,470	●	▲
30	40	200L	-	1LE7501-2AA43-5AA4	4,33,835	●	▲
37	50	200L	-	1LE7501-2AA53-5AA4	4,87,050	●	▲
45	60	225M	S & **M**	1LE7501-2BA23-5AA4	6,26,395	●	▲

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#	23,810	●	▲
0.25	0.35	71	-	1LE7501-0CB22-3AA4#	23,810	●	▲
0.37	0.5	71	-	1LE7501-0CB32-3AA4#	23,990	●	▲
0.55	0.75	80	-	1LE7501-0DB22-3AA4#	29,040	●	▲
0.75	1	80	-	1LE7501-0DB32-3AA4	31,175	●	▲
1.1	1.5	90S	**S** & L	1LE7501-0EB02-3AA4	38,985	●	▲
1.5	2	90L	S & **L**	1LE7501-0EB42-3AA4	44,125	●	▲
415VΔ 50Hz							
2.2	3	100L	-	1LE7501-1AB43-5AA4	53,705	●	▲
3.7	5	112M	-	1LE7501-1BB23-5AA4	67,655	●	▲
5.5	7.5	132S	**S** & M	1LE7501-1CB03-5AA4	90,780	●	▲
7.5	10	132M	S & **M**	1LE7501-1CB23-5AA4	1,09,395	●	▲
11	15	160M	**M** & L	1LE7501-1DB23-5AA4	1,92,310	●	▲
15	20	160L	M & **L**	1LE7501-1DB43-5AA4	2,23,610	●	▲
18.5	25	180M	**M** & L	1LE7501-1EB23-5AA4	3,03,070	●	▲
22	30	180L	M & **L**	1LE7501-1EB43-5AA4	3,26,055	●	▲
30	40	200L	-	1LE7501-2AB53-5AA4	4,50,370	●	▲
37	50	225S	**S** & M	1LE7501-2BB03-5AA4	5,52,075	●	▲
45	60	225M	S & **M**	1LE7501-2BB23-5AA4	6,23,520	●	▲

+ 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

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#	26,690	●	▲
0.25	0.35	71	-	1LE7501-0CC32-3AA4#	27,120	●	▲
0.37	0.5	80	-	1LE7501-0DC22-3AA4#	29,470	●	▲
0.55	0.75	80	-	1LE7501-0DC32-3AA4#	31,390	●	▲
0.75	1	90S	**S** & L	1LE7501-0EC02-3AA4	40,955	●	▲
1.1	1.5	90L	S & **L**	1LE7501-0EC42-3AA4	47,360	●	▲
1.5	2	100L	-	1LE7501-1AC42-3AA4	57,200	●	▲
415VΔ 50Hz							
2.2	3	112M	-	1LE7501-1BC23-5AA4	70,325	●	▲
3.7	5	132S	**S** & M	1LE7501-1CC13-5AA4	1,00,800	●	▲
5.5	7.5	132M	S & **M**	1LE7501-1CC33-5AA4	1,18,970	●	▲
7.5	10	160M	**M** & L	1LE7501-1DC23-5AA4	1,91,275	●	▲
11	15	160L	M & **L**	1LE7501-1DC43-5AA4	2,35,710	●	▲
15	20	180L	M & **L**	1LE7501-1EC43-5AA4	3,15,775	●	▲
18.5	25	200L	-	1LE7501-2AC43-5AA4	3,96,950	●	▲
22	30	200L	-	1LE7501-2AC53-5AA4	4,31,080	●	▲
30	40	225M	S & **M**	1LE7501-2BC23-5AA4	5,83,280	●	▲

Innomotics Moves!
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	896,835	●	▲
75	100	280S	**S** & M	1LE7501-2DA03-5AA4	11,88,395	●	▲
90	120	280M	S & **M**	1LE7501-2DA23-5AA4	13,52,740	●	▲
110	150	315S	**S** & M	1LE7501-3AA03-5AA4	17,06,895	●	▲
132	180	315M	**M** & L	1LE7501-3AA23-5AA4	19,96,550	●	▲
160	215	315L	M & **L**	1LE7501-3AA43-5AA4	21,91,565	●	▲
200	270	315L	M & **L**	1LE7501-3AA63-5AA4	25,64,705	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7501-2CB23-5AA4	8,91,830	●	▲
75	100	280S	**S** & M	1LE7501-2DB03-5AA4	11,62,730	●	▲
90	120	280M	S & **M**	1LE7501-2DB23-5AA4	13,25,495	●	▲
110	150	315S	**S** & M	1LE7501-3AB03-5AA4	16,03,075	●	▲
132	180	315M	**M** & L	1LE7501-3AB23-5AA4	17,99,455	●	▲
160	215	315L	M & **L**	1LE7501-3AB43-5AA4	21,09,975	●	▲
200	270	315L	M & **L**	1LE7501-3AB63-5AA4	25,61,360	●	▲

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	8,37,860	●	▲
45	60	280S	**S** & M	1LE7501-2DC03-5AA4	10,50,420	●	▲
55	75	280M	S & **M**	1LE7501-2DC23-5AA4	11,94,100	●	▲
75	100	315S	**S** & M	1LE7501-3AC03-5AA4	14,34,985	●	▲
90	120	315M	S & **M**	1LE7501-3AC23-5AA4	17,17,050	●	▲
110	150	315L	M & **L**	1LE7501-3AC43-5AA4	19,14,970	●	▲
132	180	315L	M & **L**	1LE7501-3AC63-5AA4	22,40,215	●	▲

Innomotics Moves!
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	26,740	●	▲
0.37	0.5	71	-	1LE7503-0CA22-3AA4	26,740	●	▲
0.55	0.75	71	-	1LE7503-0CA32-3AA4	30,190	●	▲
0.75	1	80	-	1LE7503-0DA22-3AA4	32,620	●	▲
1.1	1.5	80	-	1LE7503-0DA32-3AA4	37,175	●	▲
1.5	2	90S	**S** & L	1LE7503-0EA02-3AA4	43,965	●	▲
415VΔ 50Hz							
2.2	3	90L	S & **L**	1LE7503-0EA43-5AA4	52,305	●	▲
3.7	5	100L	-	1LE7503-1AA53-5AA4	74,950	●	▲
5.5	7.5	132S	**S** & M	1LE7503-1CA03-5AA4	1,08,910	●	▲
7.5	10	132S	**S** & M	1LE7503-1CA13-5AA4	1,19,090	●	▲
11	15	160M	**M** & L	1LE7503-1DA23-5AA4	2,37,410	●	▲
15	20	160M	**M** & L	1LE7503-1DA33-5AA4	2,60,995	●	▲
18.5	25	160L	M & **L**	1LE7503-1DA43-5AA4	3,16,440	●	▲
22	30	180M	**M** & L	1LE7503-1EA23-5AA4	3,40,405	●	▲
30	40	200L	-	1LE7503-2AA43-5AA4	4,75,485	●	▲
37	50	200L	-	1LE7503-2AA53-5AA4	5,69,380	●	▲
45	60	225M	S & **M**	1LE7503-2BA23-5AA4	7,14,900	●	▲

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	27,640	●	▲
0.25	0.35	71	-	1LE7503-0CB22-3AA4	27,640	●	▲
0.37	0.5	71	-	1LE7503-0CB32-3AA4	28,835	●	▲
0.55	0.75	80	-	1LE7503-0DB22-3AA4	33,845	●	▲
0.75	1	80	-	1LE7503-0DB32-3AA4	37,650	●	▲
1.1	1.5	90S	**S** & L	1LE7503-0EB02-3AA4	46,340	●	▲
1.5	2	90L	S & **L**	1LE7503-0EB42-3AA4	52,800	●	▲
415VΔ 50Hz							
2.2	3	100L	-	1LE7503-1AB43-5AA4	63,605	●	▲
3.7	5	112M	-	1LE7503-1BB23-5AA4	81,915	●	▲
5.5	7.5	132S	**S** & M	1LE7503-1CB03-5AA4	1,16,000	●	▲
7.5	10	132M	S & **M**	1LE7503-1CB23-5AA4	1,32,910	●	▲
11	15	160M	**M** & L	1LE7503-1DB23-5AA4	2,32,135	●	▲
15	20	160L	M & **L**	1LE7503-1DB43-5AA4	2,75,140	●	▲
18.5	25	180M	**M** & L	1LE7503-1EB23-5AA4	3,37,490	●	▲
22	30	180L	M & **L**	1LE7503-1EB43-5AA4	3,61,110	●	▲
30	40	200L	-	1LE7503-2AB53-5AA4	5,02,635	●	▲
37	50	225S	**S** & M	1LE7503-2BB03-5AA4	6,39,260	●	▲
45	60	225M	S & **M**	1LE7503-2BB23-5AA4	7,36,075	●	▲

+ 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.

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● Datasheet

▲ GAD

Innomotics Moves!
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	30,220	●	▲
0.25	0.35	71	-	1LE7503-0CC32-3AA4	31,035	●	▲
0.37	0.5	80	-	1LE7503-0DC22-3AA4	34,280	●	▲
0.55	0.75	80	-	1LE7503-0DC32-3AA4	38,195	●	▲
0.75	1	90S	**S** & L	1LE7503-0EC02-3AA4	45,825	●	▲
1.1	1.5	90L	S & **L**	1LE7503-0EC42-3AA4	54,295	●	▲
1.5	2	100L	-	1LE7503-1AC42-3AA4	65,405	●	▲
415VΔ 50Hz							
2.2	3	112M	-	1LE7503-1BC23-5AA4	76,420	●	▲
3.7	5	132S	**S** & M	1LE7503-1CC13-5AA4	1,11,305	●	▲
5.5	7.5	132M	S & **M**	1LE7503-1CC33-5AA4	1,33,530	●	▲
7.5	10	160M	**M** & L	1LE7503-1DC23-5AA4	2,20,525	●	▲
11	15	160L	M & **L**	1LE7503-1DC43-5AA4	2,74,715	●	▲
15	20	180L	M & **L**	1LE7503-1EC43-5AA4	3,42,995	●	▲
18.5	25	200L	-	1LE7503-2AC43-5AA4	4,46,455	●	▲
22	30	200L	-	1LE7503-2AC53-5AA4	4,93,520	●	▲
30	40	225M	S & **M**	1LE7503-2BC23-5AA4	6,67,020	●	▲

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	32,210	●	▲
0.18	0.25	80	-	1LE7503-0DD22-3AA4	34,545	●	▲
0.25	0.35	80	-	1LE7503-0DD32-3AA4	38,430	●	▲
0.37	0.5	90S	**S** & L	1LE7503-0ED02-3AA4	43,850	●	▲
0.55	0.75	90L	S & **L**	1LE7503-0ED42-3AA4	52,590	●	▲
0.75	1	100L	-	1LE7503-1AD42-3AA4	58,650	●	▲
1.1	1.5	100L	-	1LE7503-1AD52-3AA4	63,895	●	▲
1.5	2	112M	-	1LE7503-1BD22-3AA4	84,810	●	▲
415VΔ 50Hz							
2.2	3	132S	**S** & M	1LE7503-1CD03-5AA4	1,11,005	●	▲
3.7	5	160M	**M** & L	1LE7503-1DD23-5AA4	233,370	●	▲
5.5	7.5	160M	**M** & L	1LE7503-1DD33-5AA4	2,62,885	●	▲
7.5	10	160L	M & **L**	1LE7503-1DD43-5AA4	2,83,625	●	▲
11	15	180L	M & **L**	1LE7503-1ED43-5AA4	3,89,665	●	▲
15	20	200L	-	1LE7503-2AD53-5AA4	5,07,040	●	▲
18.5	25	225S	**S** & M	1LE7503-2BD03-5AA4	6,18,830	●	▲
22	30	225M	S & **M**	1LE7503-2BD23-5AA4	7,19,095	●	▲

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

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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

Innomotics Moves!
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	981,430	●	▲
75	100	280S	**S** & M	1LE7503-2DA03-5AA4	13,13,360	●	▲
90	120	280M	S & **M**	1LE7503-2DA23-5AA4	1,506,965	●	▲
110	150	315S	**S** & M	1LE7503-3AA03-5AA4	1,780,870	●	▲
132	180	315M	**M** & L	1LE7503-3AA23-5AA4	22,05,380	●	▲
160	215	315L	M & **L**	1LE7503-3AA43-5AA4	2,398,100	●	▲
200*	270	315L	M & **L**	1LE7503-3AA63-5AA4	28,32,835	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7503-2CB23-5AA4	10,19,940	●	▲
75	100	280S	**S** & M	1LE7503-2DB03-5AA4	1,273,120	●	▲
90	120	280M	S & **M**	1LE7503-2DB23-5AA4	1,476,630	●	▲
110	150	315S	**S** & M	1LE7503-3AB03-5AA4	17,14,830	●	▲
132	180	315M	**M** & L	1LE7503-3AB23-5AA4	1,973,505	●	▲
160	215	315L	M & **L**	1LE7503-3AB43-5AA4	2,308,635	●	▲
200	270	315L	M & **L**	1LE7503-3AB63-5AA4	2,802,685	●	▲

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
37	50	250M	-	1LE7503-2CC23-5AA4	9,47,610	●	▲
45	60	280S	**S** & M	1LE7503-2DC03-5AA4	1,149,220	●	▲
55	75	280M	S & **M**	1LE7503-2DC23-5AA4	1,306,465	●	▲
75	100	315S	**S** & M	1LE7503-3AC03-5AA4	1,533,690	●	▲
90	120	315M	**M** & L	1LE7503-3AC23-5AA4	18,96,595	●	▲
110	150	315L	M & **L**	1LE7503-3AC43-5AA4	21,15,305	●	▲
132	180	315L	M & **L**	1LE7503-3AC63-5AA4	24,74,180	●	▲

8 - Pole 750 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
30	40	250M	-	1LE7503-2CD23-5AA4	10,09,380	●	▲
37	50	280S	**S** & M	1LE7503-2DD03-5AA4	12,85,740	●	▲
45	60	280M	S & **M**	1LE7503-2DD23-5AA4	14,91,755	●	▲
55	75	315S	**S** & M	1LE7503-3AD03-5AA4	16,53,920	●	▲
75	100	315M	**M** & L	1LE7503-3AD23-5AA4	20,61,055	●	▲
90	120	315L	M & **L**	1LE7503-3AD43-5AA4	22,47,260	●	▲
110	150	315L	M & **L**	1LE7503-3AD53-5AA4	24,61,735	●	▲

*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.

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

● Datasheet

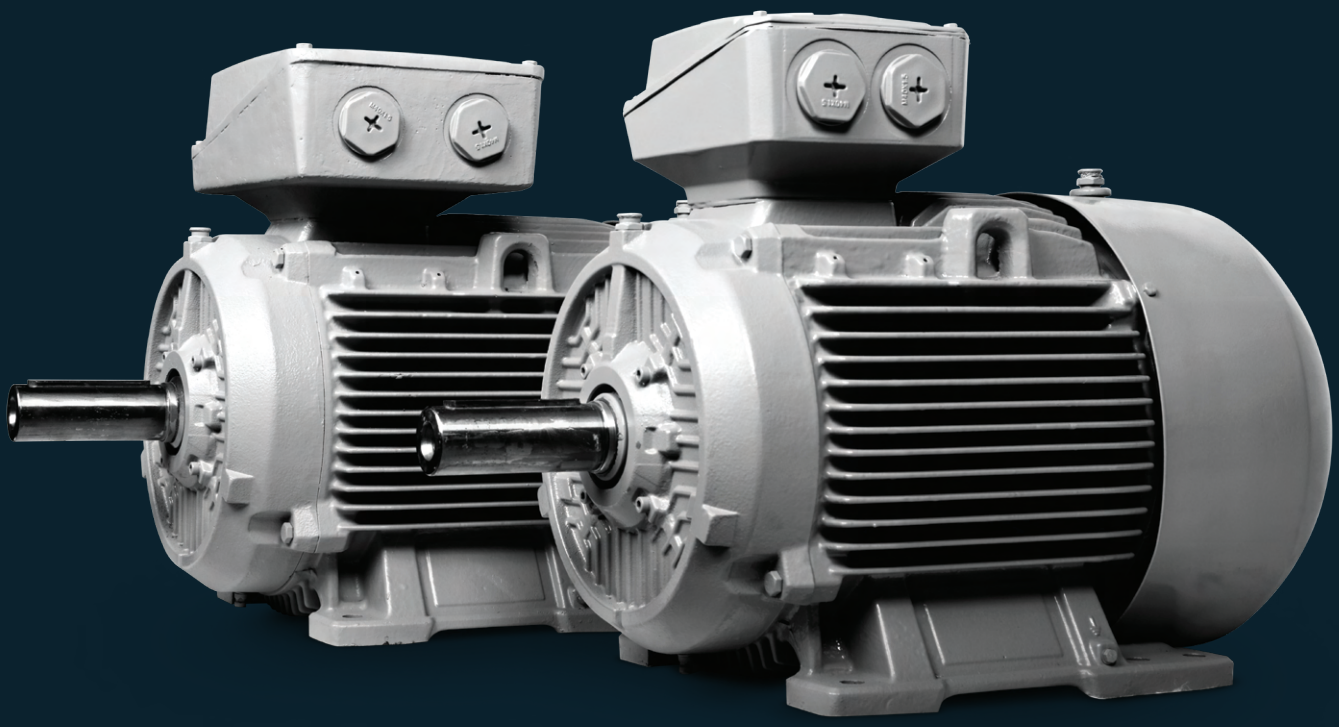
▲ GAD

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.

INNOMOTICS

INNOMOTICS MOVES! 1LE7 IE4 Efficiency Class Motors

Driving the sustainability
with Induction Motor Technology



Innomotics Moves!
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 ₹	●	▲
415VΔ 50Hz							
3.7	5	100L	-	1LE7504-1AA53-5AA4	96,845	●	▲
4.0	5.5	112M	-	**1LE7504-1BA23-5AA4-Z, Z=B59**	129,300	■	■
5.5	7.5	132S	**S** & M	1LE7504-1CA03-5AA4	1,43,685	●	▲
7.5	10	132S	**S** & M	1LE7504-1CA13-5AA4	1,57,120	●	▲
11	15	160M	**M** & L	1LE7504-1DA23-5AA4	2,83,575	●	▲
15	20	160M	**M** & L	1LE7504-1DA33-5AA4	3,26,240	●	▲
18.5	25	160L	M & **L**	1LE7504-1DA43-5AA4	4,03,015	●	▲
22	30	180M	**M** & L	1LE7504-1EA23-5AA4	4,54,400	●	▲
30	40	200L	-	1LE7504-2AA43-5AA4	6,32,850	●	▲
37	50	200L	-	1LE7504-2AA53-5AA4	7,57,820	●	▲
45	60	225M	S & **M**	1LE7504-2BA23-5AA4	9,74,705	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
415VΔ 50Hz							
2.2	3	100L	-	1LE7504-1AB43-5AA4	82,565	●	▲
3.7	5	112M	-	1LE7504-1BB23-5AA4	97,490	●	▲
5.5	7.5	132S	**S** & M	1LE7504-1CB03-5AA4	1,41,705	●	▲
7.5	10	132M	S & **M**	1LE7504-1CB23-5AA4	1,58,755	●	▲
11	15	160M	**M** & L	1LE7504-1DB23-5AA4	308,785	●	▲
15	20	160L	M & **L**	1LE7504-1DB43-5AA4	3,76,445	●	▲
18.5	25	180M	**M** & L	1LE7504-1EB23-5AA4	4,83,225	●	▲
22	30	180L	M & **L**	1LE7504-1EB43-5AA4	5,38,505	●	▲
30	40	200L	M & **L**	1LE7504-2AB53-5AA4	6,68,620	●	▲
37	50	225S	**S** & M	1LE7504-2BB03-5AA4	8,27,025	●	▲
45	60	225M	S & **M**	1LE7504-2BB23-5AA4	9,34,645	●	▲

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ/415VY 50Hz+							
1.5	2	100L	-	1LE7504-1AC42-3AA4	80,215	●	▲
415VΔ 50Hz							
2.2	3	112M	-	1LE7504-1BC23-5AA4	94,610	●	▲
3.7	5	132S	**S** & M	1LE7504-1CC13-5AA4	1,42,000	●	▲
5.5	7.5	132M	S & **M**	1LE7504-1CC33-5AA4	1,75,230	●	▲
7.5	10	160M	**M** & L	1LE7504-1DC23-5AA4	2,79,205	●	▲
11	15	160L	M & **L**	1LE7504-1DC43-5AA4	3,63,240	●	▲
15	20	180L	M & **L**	1LE7504-1EC43-5AA4	4,42,465	●	▲
18.5	25	200L	-	1LE7504-2AC43-5AA4	6,04,990	●	▲
22	30	200L	-	1LE7504-2AC53-5AA4	6,44,875	●	▲
30	40	225M	S & **M**	1LE7504-2BC23-5AA4	9,08,255	●	▲

+ 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

Innomotics Moves!
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	12,88,050	●	▲
75	100	280S	**S** & M	1LE7504-2DA03-5AA4	17,07,430	●	▲
90	120	280M	S & **M**	1LE7504-2DA23-5AA4	19,59,095	●	▲
110	150	315S	**S,** M & L	1LE7504-3AA03-5AA4	24,27,025	●	▲
132	180	315M	**M** & L	1LE7504-3AA23-5AA4	28,39,900	●	▲
160	215	315L	M & **L**	1LE7504-3AA43-5AA4	31,17,570	●	▲
200	270	315L	M & **L**	1LE7504-3AA63-5AA4	3,647,840	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP						
55	75	250M	-	1LE7504-2CB23-5AA4	12,98,650	●	▲
75	100	280S	**S** & M	1LE7504-2DB03-5AA4	1,616,485	●	▲
90	120	280M	S & **M**	1LE7504-2DB23-5AA4	1,830,270	●	▲
110	150	315S	**S,** M & L	1LE7504-3AB03-5AA4	22,30,895	●	▲
132	180	315M	**M** & L	1LE7504-3AB23-5AA4	2,446,210	●	▲
160	215	315L	M & **L**	1LE7504-3AB43-5AA4	2,861,535	●	▲
200	270	315L	M & **L**	1LE7504-3AB63-5AA4	3,473,920	●	▲

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	12,02,650	●	▲
45	60	280S	**S** & M	1LE7504-2DC03-5AA4	14,94,050	●	▲
55	75	280M	S & **M**	1LE7504-2DC23-5AA4	16,98,430	●	▲
75	100	315S	**S,** M & L	1LE7504-3AC03-5AA4	20,90,215	●	▲
90	120	315M	**M** & L	1LE7504-3AC23-5AA4	24,42,335	●	▲
110	150	315L	M & **L**	1LE7504-3AC43-5AA4	27,23,990	●	▲
132	180	315L	M & **L**	1LE7504-3AC63-5AA4	31,86,020	●	▲

Evaluate

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

Innomotics Moves! 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 kW	Output HP	Frame Size	Mounting holes	Type Reference (MLFB)	Unit LP in ₹
415VΔ 50Hz					
4.0	5.5	112M	-	1LE7501-1BA23-5AA4-Z, Z=B59	78,910
5.5*	7.5	112M	-	1LE7501-1BA73-5AA4-Z, Z=B59	83,840
9.3	12.5	132S	**S** & M	1LE7501-1CA79-0AA4 M1Y	1,40,050
11	15	132S	**S** & M	1LE7501-1CA73-5AA4	1,58,720
22	30	160L	M & **L**	1LE7501-1DA73-5AA4	2,92,100
30	40	180M	**M** & L	1LE7501-1EA73-5AA4	3,91,300
37*	50	180M	**M** & L	1LE7501-1EA83-5AA4	4,76,100
45	60	200L	-	1LE7501-2AA73-5AA4	5,79,120
55	75	200L	-	1LE7501-2AA83-5AA4 1LE7501	6,96,270
55	75	225M	S & **M**	-2BA73-5AA4	7,56,850
75	100	250M	-	1LE7501-2CA73-5AA4	11,07,500
90	120	250M	-	1LE7501-2CA83-5AA4	12,29,060
110	150	280M	S & **M**	1LE7501-2DA73-5AA4	15,46,130
132*	180	280M	S & **M**	1LE7501-2DA83-5AA4	16,77,200

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Mounting holes	Type Reference (MLFB)	Unit LP in ₹
240VΔ/415VY 50Hz+					
2.2	3	90L	S & L	1LE7501-0EB72-3AA4	48900
415VΔ 50Hz					
3.7	5	100L	-	1LE7501-1AB73-5AA4	64,300
5.5*	7.5	112M	-	1LE7501-1BB73-5AA4	88,000
9.3	12.5	132M	S & **M**	1LE7501-1CB79-0AA4 M1Y	1,52,400
18.5	25	180L	M & **L**	1LE7501-1DB73-5AA4	2,75,800
37*	50	200L	-	1LE7501-2AB73-5AA4	5,13,250
55	75	225M	S & **M**	1LE7501-2BB73-5AA4	7,85,350
75*	100	250M	-	1LE7501-2CB73-5AA4	10,54,370
110	150	280M	S & **M**	1LE7501-2DB73-5AA4	15,20,500
132	180	280M	S & **M**	1LE7501-2DB83-5AA4	17,12,050
225	300	315L	M & **L**	1LE7501-3AB73-5AA4	29,50,400
250*	335	315L	M & **L**	1LE7501-3AB79-0AA4 M1Y^	30,20,750

+ 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 kW	Output HP	Frame Size	Mounting holes	Type Reference (MLFB)	Unit LP in ₹
240VΔ/415VY 50Hz+					
2.2	3	100L	-	1LE7501-1AC72-3AA3	66850
415VΔ 50Hz					
3.7*	5	112M	-	1LE7501-1BC73-5AA4	93,750
7.5	10	132M	S & **M**	1LE7501-1CC73-5AA4	1,77,900
15*	20	160L	M & **L**	1LE7501-1DC73-5AA4	2,93,700
18.5*	25	180L	M & **L**	1LE7501-1EC73-5AA4	3,77,100
160*	215	315L	M & **L**	1LE7501-3AC73-5AA4	25,60,470
200*	270	315L	M & **L**	1LE7501-3AC83-5AA4	29,24,500

Innomotics Moves! 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		Frame Size	Mounting holes	Type Reference (MLFB)	Unit LP in ₹
kW	HP				
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	98,020
9.3	12.5	132S	**S** & M	1LE7503-1CA79-0AA4	1,68,000
11	15	132S	**S** & M	1LE7503-1CA73-5AA4	1,77,700
45	60	200L	-	1LE7503-2AA73-5AA4	6,08,050
75	100	250M	-	1LE7503-2CA73-5AA4	11,84,350
90	120	250M	-	1LE7503-2CA83-5AA4	13,33,800
110*	150	280M	S & **M**	1LE7503-2DA73-5AA4	16,23,550

4 - Pole 1500 rev/min

Output		Frame Size	Mounting holes	Type Reference (MLFB)	Unit LP in ₹
kW	HP				
415VΔ 50Hz					
4.0*	5.5	112M	-	1LE7503-1BB29-0AA4-Z, Z= M1Y+N02	98,750
9.3	12.5	132M	S & **M**	1LE7503-1CB79-0AA4 M1Y	1,80,100
37	50	200L	-	1LE7503-2AB73-5AA4	6,07,900
55*	75.0	225M	S & **M**	1LE7503-2BB73-5AA4	8,91,650
75	100	250M	-	1LE7503-2CB73-5AA4	12,05,330
110*	150	280M	S & **M**	1LE7503-2DB73-5AA4	16,19,550
132*	180	280M	S & **M**	1LE7503-2DB83-5AA4	17,91,650
225	300	315L	M & **L**	1LE7503-3AB73-5AA4	32,89,700
250	335	315L	M & **L**	1LE7503-3AB79-0AA4-Z, Z=M1Y^	33,60,050

6 - Pole 1000 rev/min

Output		Frame Size	Mounting holes	Type Reference (MLFB)	Unit LP in ₹
kW	HP				
415VΔ 50Hz					
75	100	280M	S & **M**	1LE7503-2DC73-5AA4	13,80,300
90	120	280M	S & **M**	1LE7503-2DC83-5AA4	17,06,950
160	215	315L	M & **L**	1LE7503-3AC73-5AA4	26,81,200
200	270	315L	M & **L**	1LE7503-3AC83-5AA4	30,64,850

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.

Innomotics Moves! Cast iron 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

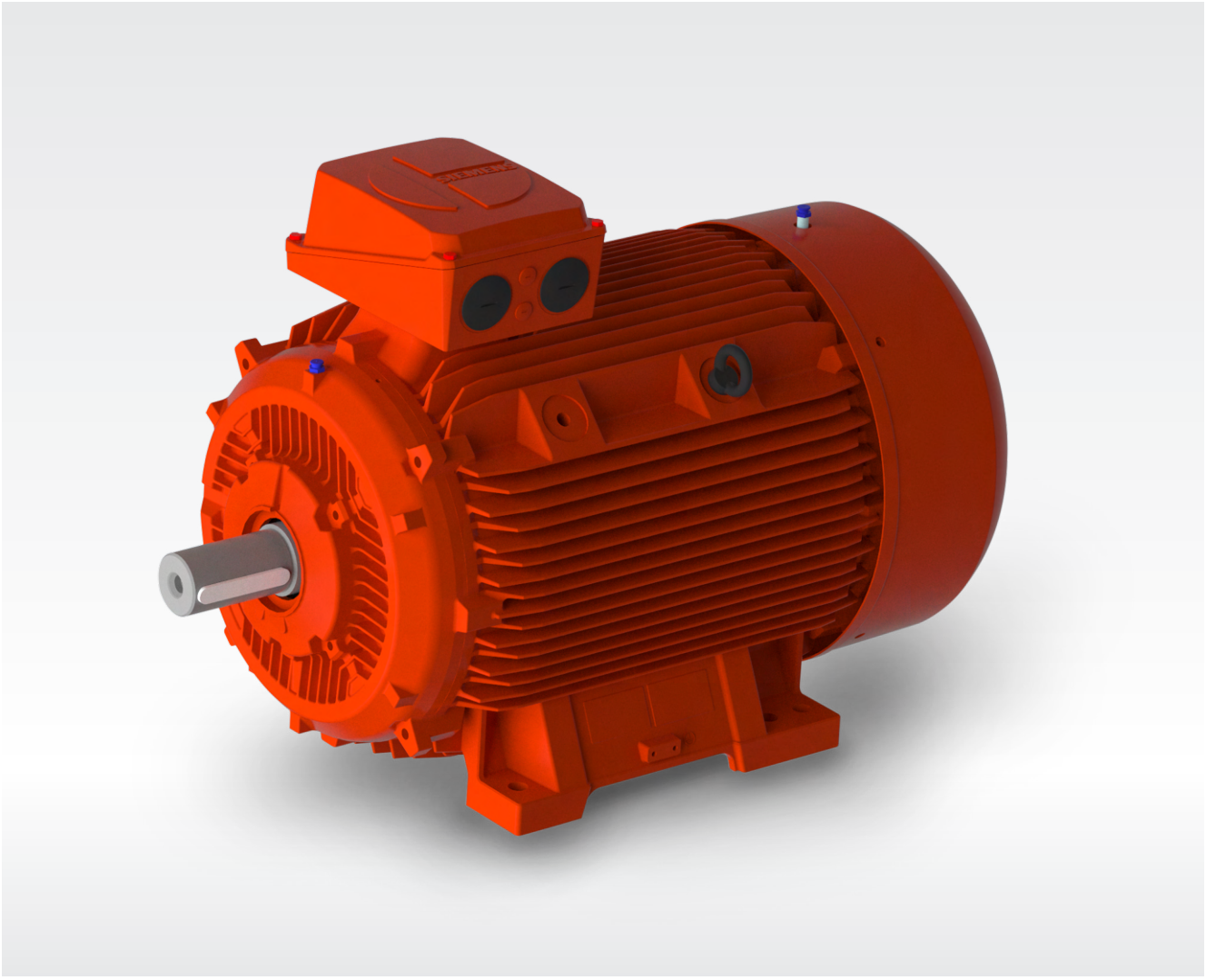
2 - Pole 3000 rev/min					
Output		Frame Size	Mounting holes	Ordering Code (MLFB)	Unit LP in ₹
kW	HP				
415VΔ 50Hz					
5.5	7.5	112M	-	1LE7501-1BA73-5AA4-Z	83,840
7.5	10	132S	**S** & M	1LE7501-1CA13-5AA4-Z	99,840
9.3	12.5	132S	**S** & M	1LE7501-1CA79-0AA4-Z[&]	1,40,050
11	15	132S	**S** & M	1LE7501-1CA73-5AA4-Z	1,58,720
22	30	160L	M & **L**	1LE7501-1DA73-5AA4-Z	2,92,100
30	40	180L	M & **L**	1LE7501-1EA73-5AA4-Z	3,91,300
37	50	180L	M & **L**	1LE7501-1EA83-5AA4-Z	4,76,100
45	60	200L	M & **L**	1LE7501-2AA73-5AA4-Z	5,79,120

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	6,96,270
55	75	225M	S & **M**	1LE7501-2BA73-5AA4-Z	7,56,850
75	100	250M	-	1LE7501-2CA73-5AA4-Z	11,07,500
90	120	250M	-	1LE7501-2CA83-5AA4-Z	12,29,060
110	150	280M	S & **M**	1LE7501-2DA73-5AA4-Z	15,46,130
132	180	280M	S & **M**	1LE7501-2DA89-0AA4-Z[&]	16,77,210
160	215	315L	M & **L**	1LE7501-3AA43-5AA4-Z	21,91,565
180	240	315L	M & **L**	1LE7501-3AA49-0AA4-Z[&]	25,13,410

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 above MRP.

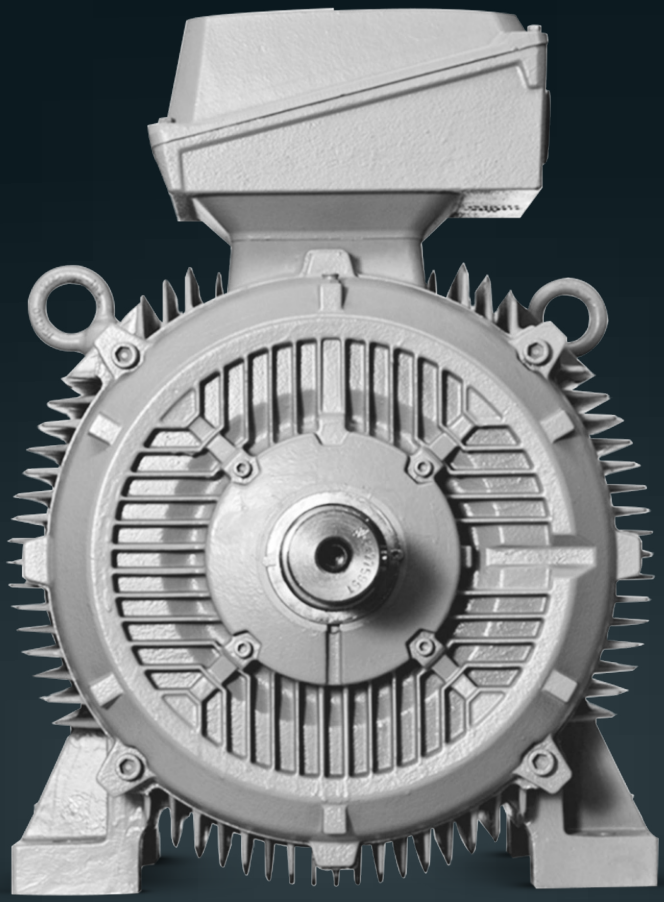
& M1Y option is mandatory & prices are inclusive in same.



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

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 10.1 (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 10.2 (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	1,05,525
	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	1,05,525
	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	1,05,525
	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				1,155	1,260	1,680	1,995	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	1,05,525
	IMB34		N				1,470	1,785	1,995	2,520	3,045	4,830	Not Available						
	IMV36[1]		Y				1,155	1,260	1,680	1,995	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	1,05,525
	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				1,155	1,260	1,680	1,995	2,520	3,360	8,820	12,810	20,160	29,190	45,675	59,850	1,05,525

□ 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
^ 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.

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												1,82,175
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

[2] Can not be offered when MLFB-15th digit is "A"

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 10.1

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 10.2

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 sales office.

& All 60Hz motors delivered on or after 1st July 2021 will not carry CE mark.

Price Add-ons for 1LE7

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	1,27,050
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	1,68,000
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	12,180	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	1,63,800
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

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	1,26,000
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										1,38,600	1,38,600	1,38,600
35	Bearing Insulation arrangement	L51			Not Available									1,71,150	1,71,150	1,71,150	1,71,150
36	Insulated Bearing at NDE	L53			Not Available						1,47,000	1,47,000	1,83,750	1,99,500	1,99,500	1,99,500	1,99,500
37	Mounting of Separately Driven Fan	F70			Not Available						87,990	94,710	1,14,660	1,31,040	1,59,600	1,70,100	2,24,700
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		
Coming soon																	
40	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
41	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
42	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
43	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
44	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
45	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
46	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)																	
47	Standard Paint Shade - RAL 7030				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
48	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
49	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)																	
50	Polyurethane paint finish		90µ standard.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
51	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	1,01,850
52	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	1,52,250
53	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	1,24,950	2,03,700

Notes:

1. Not available for IC416 cooling.

☐ Standard Version

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

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
54	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	1,06,050	1,27,050
55	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	1,27,050	1,52,250
56	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	1,52,250	1,82,700

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.

57	Motor supplied unpainted - only with (Red-oxide) Primer	S01			O	O	O	O	O	O	O	O	O	O	O	O	O
Encoders																	
58	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		
59	Kubler Sendix 5020 TTL Rotary Pulse encoder-10	G12			93,765	93,765	93,765	On Enquiry			Not Available				Not Available		
60	LL 861 900 220 rotary pulse encoder	G04			Not Available			1,77,555	1,77,555	1,77,555	2,00,760	2,00,760	2,26,170	2,26,170	2,62,500	2,62,500	2,62,500
61	HOG 9D 1024 I rotary pulse encoder	G05			Not Available			1,69,785	1,69,785	1,69,785	1,92,990	1,92,990	2,18,400	2,18,400	2,53,050	2,53,050	2,53,050
62	HOG 10D 1024 I rotary pulse encoder	G06			Not Available			1,77,555	1,77,555	1,77,555	2,00,760	2,00,760	2,26,170	2,26,170	2,62,500	2,62,500	2,62,500
63	Baumer Thalheim make ITD 40 A4 Y126 1024 encoder	G17			Not Available			1,77,555	1,77,555	1,77,555	2,00,760	2,00,760	2,26,170	2,26,170	2,62,500	2,62,500	2,62,500
64	HOG 86 TP6 DN 1024 I encoder	G19			Not Available			1,06,995	1,06,995	1,06,995	1,27,890	1,27,890	1,33,560	1,33,560	1,41,750	1,41,750	1,41,750
65	Prepared for mounting Baumer Thalheim make ITD 40 A4 Y126 1024 - encoder	G44			Not Available			1,45,530	1,45,530	1,45,530	1,65,480	1,65,480	1,71,990	1,71,990	1,79,550	1,79,550	1,79,550
66	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
67	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
68	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		
69	Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (speed .... rpm), connection box protection against dust	Y76															
70	Mounting of rotary pulse encoder HOG 10 DN 1024 I + E SL 93, (speed .... rpm), connection box protection against moisture	Y79															
Brake motors																	
71	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		
72	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		
73	Brake supply voltage 24 V DC	F10			19,110	27,300	27,300	35,175	36,855	63,210	95,970	1,13,610	1,32,090	1,64,850	Not Available		
74	Brake supply voltage 230 V AC, 50/60 Hz	F11			23,835	31,605	31,605	39,375	41,475	67,410	1,00,380	1,18,860	1,37,130	1,69,260	Not Available		
75	Brake supply voltage 400 V AC, 50/60 Hz	F12			27,405	36,120	36,120	44,520	46,620	75,180	1,11,510	1,32,090	1,51,620	1,81,440	Not Available		
76	Brake supply voltage 240 V AC, 50/60 Hz	F13			24,360	32,235	32,235	42,315	44,310	71,715	1,06,050	1,26,420	1,44,900	1,75,770	Not Available		
77	Brake supply voltage 415 V AC, 50/60 Hz	F14			22,050	31,815	31,815	40,635	42,630	68,565	1,02,060	1,10,880	1,38,180	1,75,770	Not Available		
78	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																	
79	Vibration proof version	H02			840	840	840	945	945	945	1,260	1,260	1,470	1,470	2,100	2,100	3,150
80	Condensation drainage holes - sealed with a plug	H03			2,625	2,625	2,625	□	□	□	□	□	□	□	□	□	□
81	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
82	Mains Terminal box on NDE	H08			Not Available										On Enquiry		
83	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	1,07,100

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

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
84	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	1,07,100
85	Labyrinth Seal on DE & NDE	H28			Not Available										NA	7,875	8,925
Bearing & Lubrication																	
86	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
87	Locating bearing, DE	L20			On Enquiry						5,670	5,670	6,720	7,770	9,450	13,650	22,050
88	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
89	Conical head regreasing device	L19			Not Available			1,890	2,520	3,465	7,350	9,870	14,700	☐	☐	☐	☐
90	Flat button-head regreasing device	L23			Not Available			On Enquiry			7,350	9,870	14,700	On Enquiry			
91	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	☐	☐	☐	☐	☐	☐	☐
92	C4 clearance bearing at DE & NDE	L31			Not Available						9,870	10,710	20,160	26,270	40,950	47,250	53,550
93	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
94	Double Sealed (ZZ) bearings (permanently lubricated)- only for ball bearings at DE & NDE)	L33			☐	☐	☐	☐	☐	☐	☐	☐	☐	26,880	34,650	40,950	48,300
95	Customer specific regreasing interval	Y94			O	O	O	O	O	O	O	O	O	O	O	O	O
Balance & Vibration Quality																	
96	Vibration Severity Level A				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
97	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
98	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
99	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																	
100	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
101	Shaft material - Stainless steel	L06			5,040	7,875	11,445	14,805	18,480	23,625	On Enquiry						
102	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
103	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
104	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	1,31,250	2,00,550	3,73,800
105	Tapered shaft extension DE	Y62			On Enquiry												
106	Tapered shaft extension NDE	Y63		*1	On Enquiry												
107	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																	
108	Stainless steel nameplate				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
109	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
110	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
111	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
112	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
113	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
114	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
115	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																	
116	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
117	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
118	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	1,38,600	1,48,050	1,68,000
119	Noise measurement without spectrum analysis with acceptance	B70			On Enquiry												
120	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.

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

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

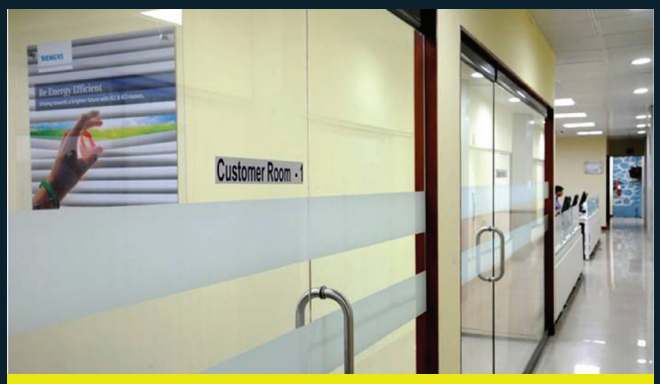
Based on IEC 60034-30-1, the Indian standard IS 12615 for energy efficient IE2 / IE3 / IE4 motors refers to related standard IS 15999 (Part 2 / Sec 1) & IEC 60034-2-1 : 'Rotating electrical machines; Part 2-1 for determining losses and efficiency from tests (excluding machines for traction vehicles)'. 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 IS 15999 (Part 2 / Sec 1)



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	32,91,140
315	425	355L	1SE0 357-2NC80*	36,69,080

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1SE0 356-4NB80	33,30,095
315	425	355L	1SE0 357-4NB80	38,20,165

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
160	215	355L	1SE0 356-6NB80	29,39,950
200	270	355L	1SE0 357-6NC80	33,61,110
250	335	355L	1SE0 358-6NB80	34,57,890

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	36,79,910
315	425	355L	1LA2 357-2NC80*	40,06,575

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
250	335	355L	1LA2 356-4NB80	36,55,175
315	425	355L	1LA2 357-4NB80	40,02,795

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
160	215	355L	1LA2 356-6NB80	32,27,490
200	270	355L	1LA2 357-6NC80	36,89,340
250	335	355L	1LA2 358-6NB80	38,65,755

8 - Pole 750 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
132	180	355L	1SE0 356-8YB80	30,11,245
160	215	355L	1SE0 357-8YB80	34,06,420
200	270	355L	1SE0 358-8YB80*	37,48,390

* 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	-	-

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	44,15,895
315	425	355L	1LA2 357-2WC80*	48,07,895

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	43,61,290
315	425	355L	1LA2 357-4WA80	48,03,355
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	38,50,980
200	270	355L	1LA2 357-6WA80	44,27,205
250	335	355L	1LA2 358-6WA80&	46,12,555
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	1SE0 356-8WB80	39,97,470
160	215	355L	1SE0 357-8WB80	On request
200	270	355L	1SE0 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 available on request

IE3 efficiency class - 1PQ0..Y

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1PQ0 356-2YC80	38,83,255
315	425	355L	1PQ0 357-2YC80	42,84,505

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1PQ0 356-4YB80	37,24,555
315	425	355L	1PQ0 357-4YB80	40,85,025

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
160	215	355L	1PQ0 356-6YB80$	32,89,270
200	270	355L	1PQ0 357-6YC80$	37,47,695
250	335	355L	1PQ0 358-6YB80	41,77,195

8 - Pole 750 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
132	180	355L	1PQ0 356-8YB80	34,66,195
160	215	355L	1PQ0 357-8YB80	38,825,675
200	270	355L	1PQ0 358-8YB80$	40,00,060

* Temp. rise limited to 80K

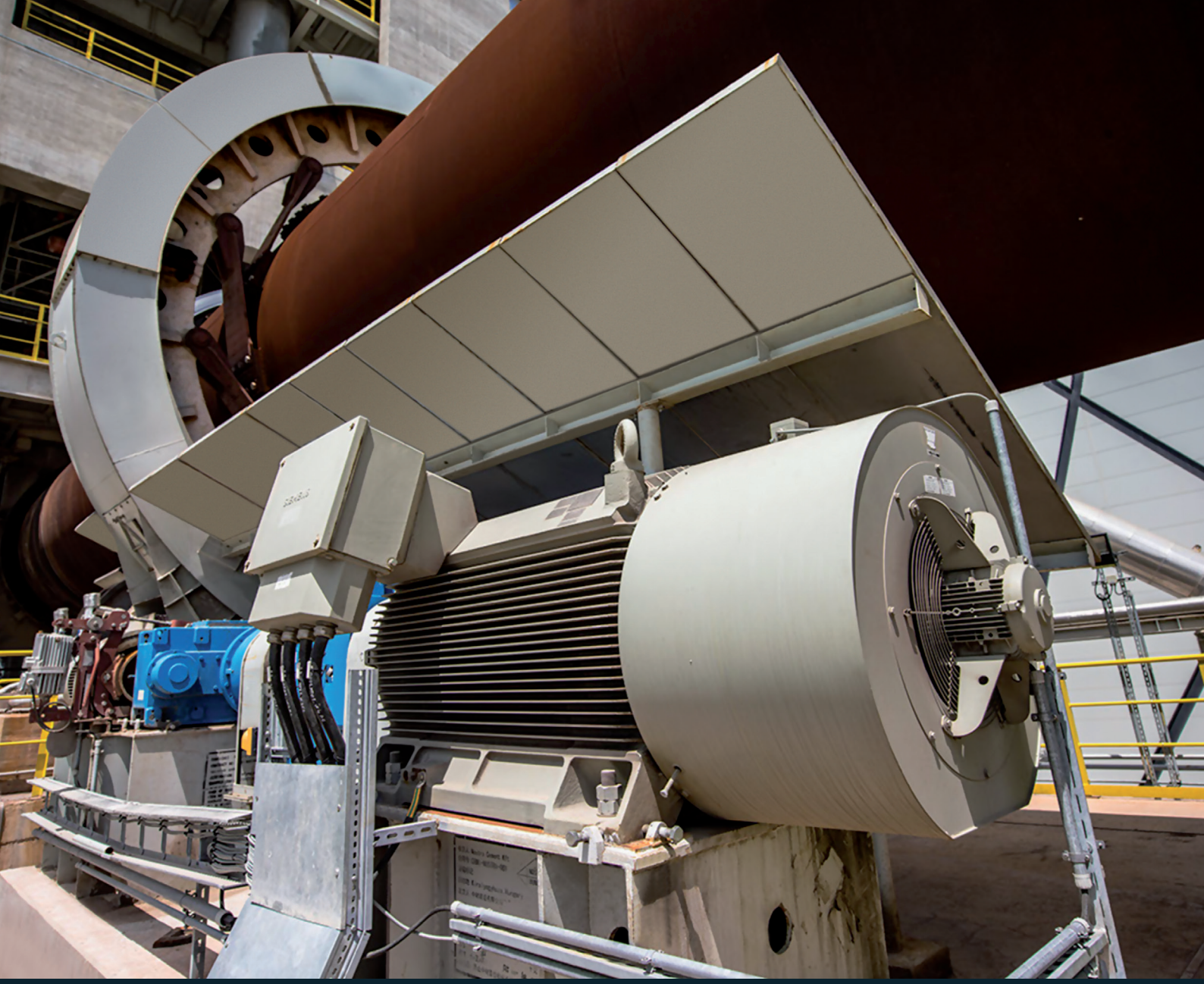
1LA2 motors in 355L frame & construction with feet effective 6th Nov. 2023 have three mounting holes on the NDE corrosponding to S, M & L.

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.

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

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	-	-



N – Compact Motors

Driving productivity

With growing challenges in the industry to improve productivity and simultaneously decrease costs, Innomotics offers the high-performance N-Compact Motors that are energy-efficient and offer maximum reliability and flexibility. With its TEFC design these motors are apt for all critical applications.

N-Compact Motors

- Range 250kW - 1250kW (TEFC Enclosure –IC411/IC416)
- Low noise and vibration level
- 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	52,55,860
400	355	1LA8 356-2AC70	53,97,130
500	355	1LA8 357-2AC70	56,64,225
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	44,97,155
400	355	1LA8 356-4AB70	50,72,450
500	355	1LA8 357-4AB70	55,89,805
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	50,36,165
400	355	1LA8 357-6AB70	52,14,350
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	47,11,340
315	355	1LA8 357-8AB70	53,21,810
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	58,28,445
400	355	1PQ8 356-2PC70	60,83,325
500	355	1PQ8 357-2PC70	63,09,150
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	49,05,830
400	355	1PQ8 356-4PB70	54,76,210
500	355	1PQ8 357-4PB70	59,59,475
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	50,78,185
400	355	1PQ8 357-6PB70	54,27,965
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	51,00,860
315	355	1PQ8 357-8PB70	58,18,745
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.

A benchmark for performance

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

- High reliability and uptime
- Low maintenance cost
- Range: 71-355 frames

For more details mail to: motors.in@siemens.com

INNOMOTICS

Price Add-ons

Non-standard features / Accessories - 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

Non-standard features / Accessories - 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 1LA0/1SE0/1LA2 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).

Each time you rise
we make sure you are safe

Brake Motors

- Motors with high safety factor
- DC Brakes for faster response
- External brake for easy maintenance
- Environment friendly Brakes
- Range: 71-225 frames

For more details mail to: motors.in@siemens.com

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Innomotics Moves! 1LE7

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					

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		
15th	← 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.		

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
5	Cast Iron - standard output
6	Cast Iron - reduced output - adapted winding

Position in the MLFB
Code suffixes
Type of digit in the position

1st	2nd	3rd	4th	5th	6th	7th		8th	9th	10th	11th	12th		13th	14th	15th	16th		Code for Special Non-standard design, accessories etc.
N	A	A	N	N	N	N	-	N	A	A	N	N	-	N	A	A	N	-	
												M				Q			
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	

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)

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					

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)

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.

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													M				Q	
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
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.

For 1LE75

Frame Size		No. of Poles		Construction Length (Output assignment for Standard output versions-single speed motors)						
8th & 9th Position		10th Position		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

Frame Size		No. of Poles		Construction Length (Output assignment for reduced output versions-single speed motors)						
8th & 9th Position		10th Position		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	

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.

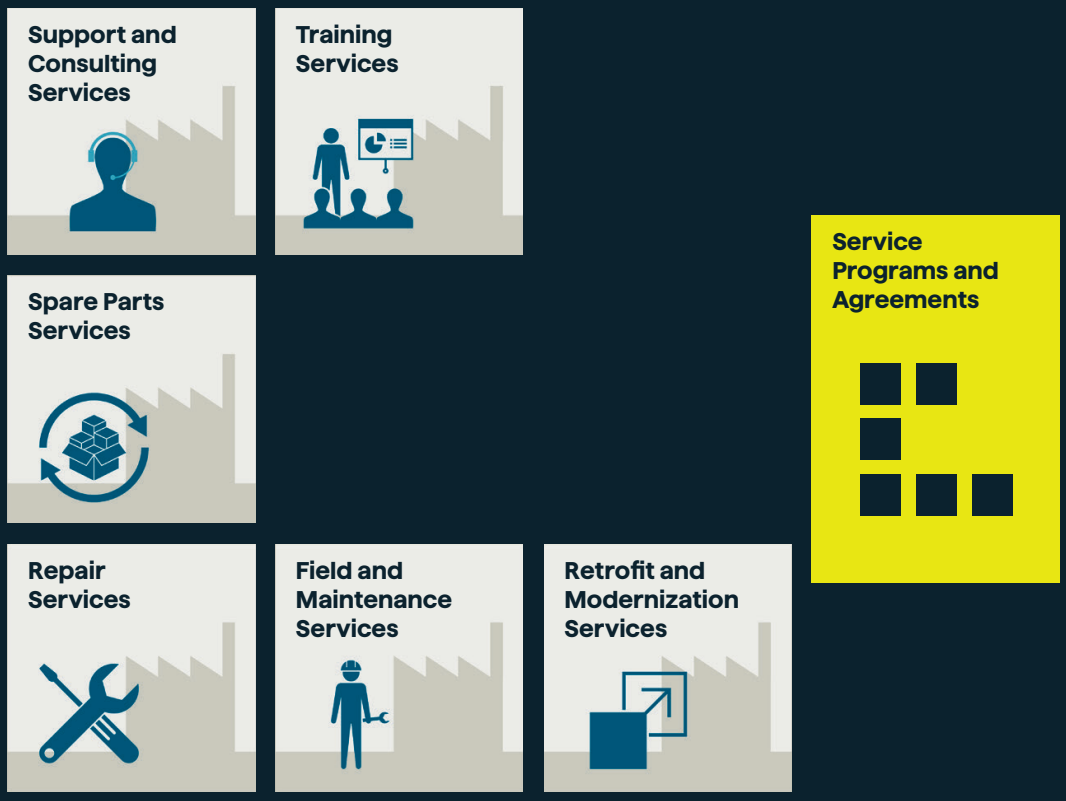
Important: ***It should be noted that all of the represented MLFB combinations may not be realisable. This chart has been devised to serve as a guide to assist in understanding the MLFB of an existing motor and should not be used to build a new MLFB at user end.***

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 603-2CB23-4JC5-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.



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