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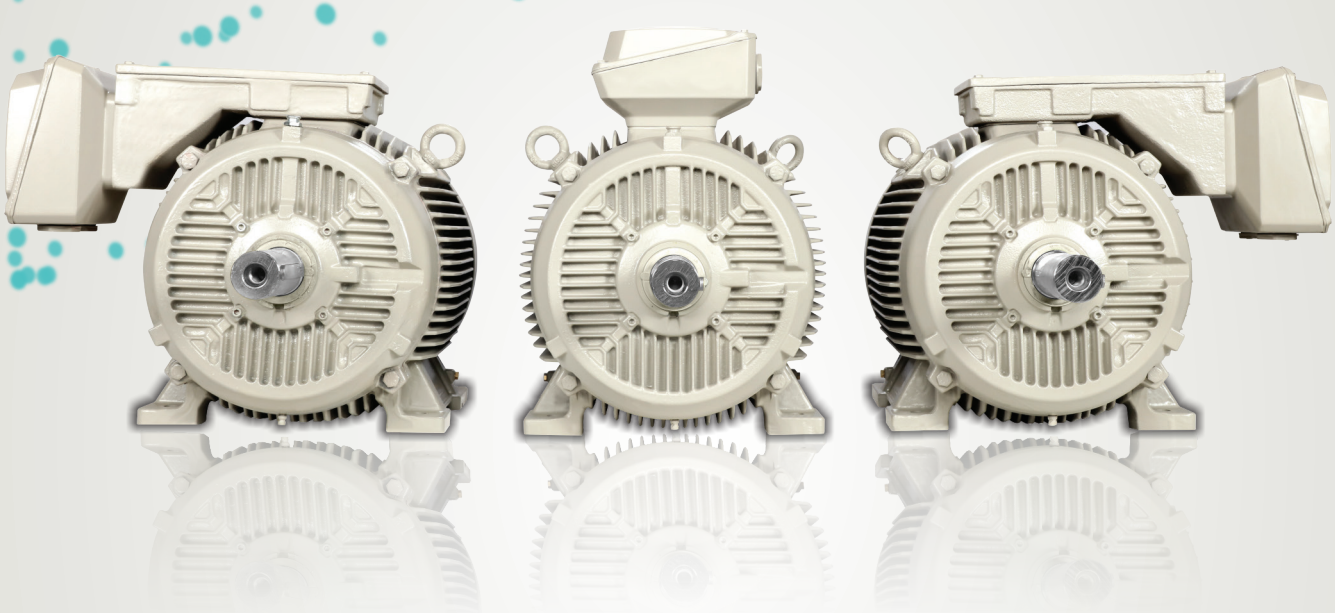

List Price
LP-Mot/204

w.e.f.
1st April,
2022

Experience the best in class
Low Voltage Motors

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Index

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

- This replaces our price list LP-Mot/203, 10th May 2021.
- 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.

IE4

SIMOTICS 1LE7 IE4 MOTORS

Compact, Competitive and CE Compliant

Introducing SIMOTICS 1LE7 Series Super Premium IE4 efficiency Class Motors in India.

Our Innovative Induction Motor Technology offers a rugged design and high operational reliability without compromising on flexibility and ease of configuration. This facilitates a wider range of standardized options, for faster selection and shorter response times.

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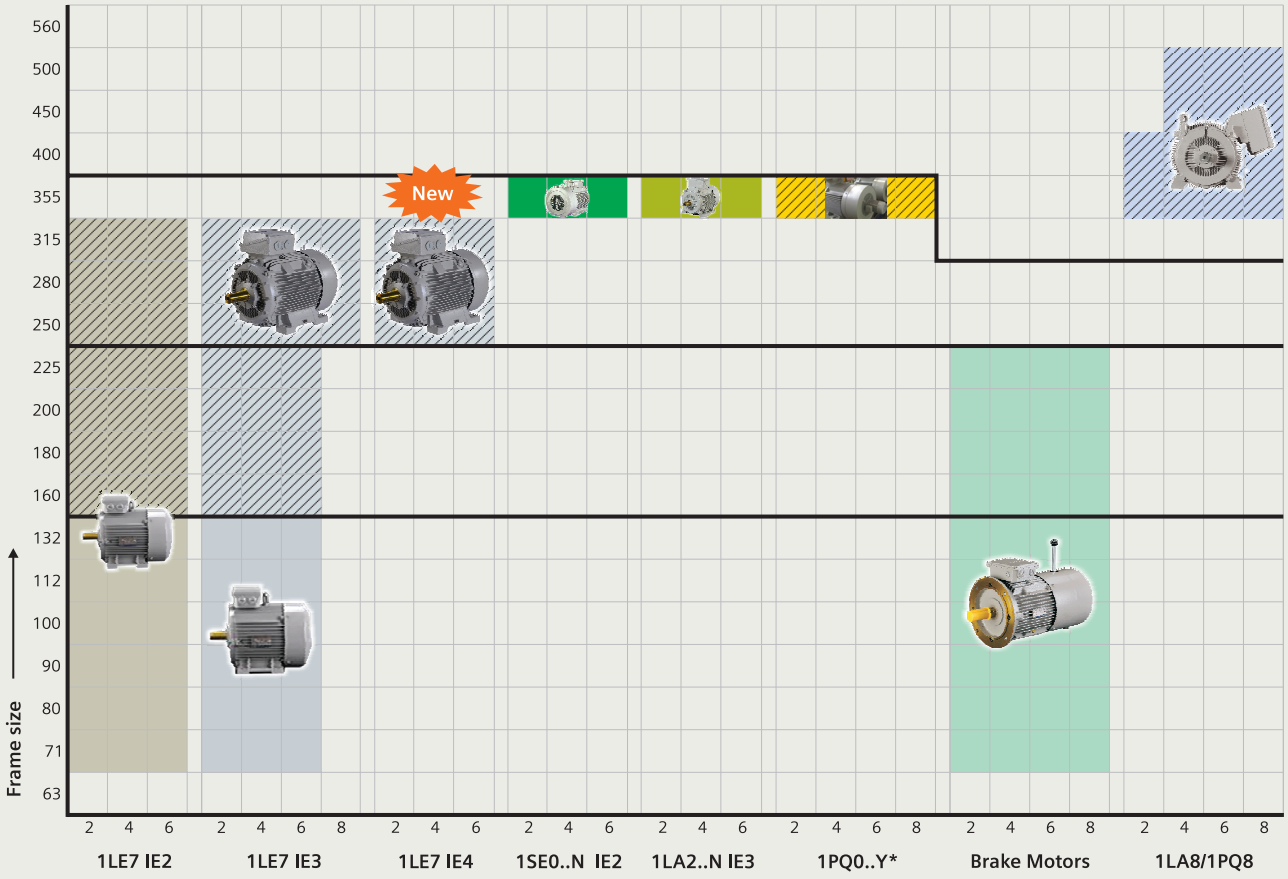
LV Motors Range



IC 416 is possible for frame 160 onwards.

* 1PQ0..Y series of motor is available in IC416 cooling only.

SIMOTICS-Cast iron series 1LE7 - *IE2*

High Efficiency

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	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.25	0.35	71	1LE7601-0CA22-3AA4	22,000	●	▲
0.37	0.5	71	1LE7501-0CA22-3AA4	22,000	●	▲
0.55	0.75	71	1LE7501-0CA32-3AA4	23,600	●	▲
0.75	1	80	1LE7501-0DA22-3AA4	26,300	●	▲
1.1	1.5	80	1LE7501-0DA32-3AA4	28,600	●	▲
1.5	2	90S	1LE7501-0EA02-3AA4	34,600	●	▲
415VΔ 50Hz						
2.2	3	90L	1LE7501-0EA43-5AA4	41,900	●	▲
3.7	5	100L	1LE7501-1AA53-5AA4	51,600	●	▲
5.5	7.5	132S	1LE7501-1CA03-5AA4	81,600	●	▲
7.5	10	132S	1LE7501-1CA13-5AA4	89,300	●	▲
11	15	160M	1LE7501-1DA23-5AA4	173,700	●	▲
15	20	160M	1LE7501-1DA33-5AA4	196,200	●	▲
18.5	25	160L	1LE7501-1DA43-5AA4	242,700	●	▲
22	30	180M	1LE7501-1EA23-5AA4	272,400	●	▲
30	40	200L	1LE7501-2AA43-5AA4	393,500	●	▲
37	50	200L	1LE7501-2AA53-5AA4	437,600	●	▲
45	60	225M	1LE7501-2BA23-5AA4	562,800	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.18	0.25	71	1LE7601-0CB22-3AA4	22,400	●	▲
0.25	0.35	71	1LE7501-0CB22-3AA4	22,400	●	▲
0.37	0.5	71	1LE7501-0CB32-3AA4	23,000	●	▲
0.55	0.75	80	1LE7501-0DB22-3AA4	27,200	●	▲
0.75	1	80	1LE7501-0DB32-3AA4	29,200	●	▲
1.1	1.5	90S	1LE7501-0EB02-3AA4	35,700	●	▲
1.5	2	90L	1LE7501-0EB42-3AA4	40,800	●	▲
415VΔ 50Hz						
2.2	3	100L	1LE7501-1AB43-5AA4	48,500	●	▲
3.7	5	112M	1LE7501-1BB23-5AA4	61,100	●	▲
5.5	7.5	132S	1LE7501-1CB03-5AA4	81,200	●	▲
7.5	10	132M	1LE7501-1CB23-5AA4	98,800	●	▲
9.3	12.5	132M	1LE7501-1CB79-0AA4	121,300	■	■
11	15	160M	1LE7501-1DB23-5AA4	166,500	●	▲
15	20	160L	1LE7501-1DB43-5AA4	193,600	●	▲
18.5	25	180M	1LE7501-1EB23-5AA4	262,400	●	▲
22	30	180L	1LE7501-1EB43-5AA4	282,300	●	▲
30	40	200L	1LE7501-2AB53-5AA4	399,000	●	▲
37	50	225S	1LE7501-2BB03-5AA4	489,100	●	▲
45	60	225M	1LE7501-2BB23-5AA4	552,400	●	▲

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.18	0.25	71	1LE7501-0CC22-3AA4	25,000	●	▲
0.25	0.35	71	1LE7501-0CC32-3AA4	25,400	●	▲
0.37	0.5	80	1LE7501-0DC22-3AA4	27,600	●	▲
0.55	0.75	80	1LE7501-0DC32-3AA4	29,400	●	▲
0.75	1	90S	1LE7501-0EC02-3AA4	35,800	●	▲
1.1	1.5	90L	1LE7501-0EC42-3AA4	41,400	●	▲
1.5	2	100L	1LE7501-1AC42-3AA4	50,000	●	▲
415VΔ 50Hz						
2.2	3	112M	1LE7501-1BC23-5AA4	62,300	●	▲
3.7	5	132S	1LE7501-1CC13-5AA4	89,300	●	▲
5.5	7.5	132M	1LE7501-1CC33-5AA4	105,400	●	▲
7.5	10	160M	1LE7501-1DC23-5AA4	160,400	●	▲
11	15	160L	1LE7501-1DC43-5AA4	194,000	●	▲
15	20	180L	1LE7501-1EC43-5AA4	264,800	●	▲
18.5	25	200L	1LE7501-2AC43-5AA4	341,900	●	▲
22	30	200L	1LE7501-2AC53-5AA4	371,300	●	▲
30	40	225M	1LE7501-2BC23-5AA4	526,900	●	▲

+ 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.

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

SIMOTICS-Cast iron series 1LE7 - *IE2*

High Efficiency

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	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
55	75	250M	1LE7501-2CA23-5AA4	833,300	●	▲
75	100	250M	1LE7501-2CA73-5AA4	1,049,000	■	■
75	100	280S	1LE7501-2DA03-5AA4	1,104,200	●	▲
90	120	280M	1LE7501-2DA23-5AA4	1,256,900	●	▲
110	150	315S	1LE7501-3AA03-5AA4	1,512,200	●	▲
132	180	315M	1LE7501-3AA23-5AA4	1,855,100	●	▲
160	215	315L	1LE7501-3AA43-5AA4	2,036,300	●	▲
200	270	315L	1LE7501-3AA63-5AA4	2,383,000	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
55	75	250M	1LE7501-2CB23-5AA4	790,100	●	▲
75	100	280S	1LE7501-2DB03-5AA4	1,030,100	●	▲
90	120	280M	1LE7501-2DB23-5AA4	1,174,300	●	▲
110	150	315S	1LE7501-3AB03-5AA4	1,357,100	●	▲
132	180	315M	1LE7501-3AB23-5AA4	1,594,200	●	▲
160	215	315L	1LE7501-3AB43-5AA4	1,869,300	●	▲
200	270	315L	1LE7501-3AB63-5AA4	2,269,200	●	▲

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
37	50	250M	1LE7501-2CC23-5AA4	778,500	●	▲
45	60	280S	1LE7501-2DC03-5AA4	976,000	●	▲
55	75	280M	1LE7501-2DC23-5AA4	1,109,500	●	▲
75	100	315S	1LE7501-3AC03-5AA4	1,271,300	●	▲
90	120	315M	1LE7501-3AC23-5AA4	1,595,400	●	▲
110	150	315L	1LE7501-3AC43-5AA4	1,779,300	●	▲
132	180	315L	1LE7501-3AC63-5AA4	2,081,500	●	▲

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SIMOTICS-Cast iron series 1LE7 - *IE3*

Premium Efficiency

CE

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	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.25	0.35	71	1LE7603-0CA22-3AA4	24,800	●	▲
0.37	0.5	71	1LE7503-0CA22-3AA4	24,800	●	▲
0.55	0.75	71	1LE7503-0CA32-3AA4	28,000	●	▲
0.75	1	80	1LE7503-0DA22-3AA4	30,400	●	▲
1.1	1.5	80	1LE7503-0DA32-3AA4	34,000	●	▲
1.5	2	90S	1LE7503-0EA02-3AA4	39,500	●	▲
415VΔ 50Hz						
2.2	3	90L	1LE7503-0EA43-5AA4	47,900	●	▲
3.7	5	100L	1LE7503-1AA53-5AA4	69,300	●	▲
5.5	7.5	132S	1LE7503-1CA03-5AA4	95,200	●	▲
7.5	10	132S	1LE7503-1CA13-5AA4	104,100	●	▲
11	15	160M	1LE7503-1DA23-5AA4	195,400	●	▲
15	20	160M	1LE7503-1DA33-5AA4	224,800	●	▲
18.5	25	160L	1LE7503-1DA43-5AA4	277,700	●	▲
22	30	180M	1LE7503-1EA23-5AA4	293,200	●	▲
30	40	200L	1LE7503-2AA43-5AA4	419,300	●	▲
37	50	200L	1LE7503-2AA53-5AA4	502,100	●	▲
45	60	225M	1LE7503-2BA23-5AA4	645,800	●	▲

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.18	0.25	71	1LE7603-0CB22-3AA4	25,400	●	▲
0.25	0.35	71	1LE7503-0CB22-3AA4	25,400	●	▲
0.37	0.5	71	1LE7503-0CB32-3AA4	26,500	●	▲
0.55	0.75	80	1LE7503-0DB22-3AA4	31,100	●	▲
0.75	1	80	1LE7503-0DB32-3AA4	34,600	●	▲
1.1	1.5	90S	1LE7503-0EB02-3AA4	40,900	●	▲
1.5	2	90L	1LE7503-0EB42-3AA4	46,600	●	▲
415VΔ 50Hz						
2.2	3	100L	1LE7503-1AB43-5AA4	55,600	●	▲
3.7	5	112M	1LE7503-1BB23-5AA4	72,300	●	▲
5.5	7.5	132S	1LE7503-1CB03-5AA4	101,400	●	▲
7.5	10	132M	1LE7503-1CB23-5AA4	113,600	●	▲
11	15	160M	1LE7503-1DB23-5AA4	195,400	●	▲
15	20	160L	1LE7503-1DB43-5AA4	231,600	●	▲
18.5	25	180M	1LE7503-1EB23-5AA4	292,200	●	▲
22	30	180L	1LE7503-1EB43-5AA4	309,700	●	▲
30	40	200L	1LE7503-2AB53-5AA4	441,100	●	▲
37	50	225S	1LE7503-2BB03-5AA4	561,000	●	▲
45	60	225M	1LE7503-2BB23-5AA4	634,000	●	▲

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

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

CE marking is not provided for 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

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SIMOTICS-Cast iron series 1LE7 - *IE3*

Premium Efficiency

CE

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

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.18	0.25	71	1LE7503-0CC22-3AA4	28,700	●	▲
0.25	0.35	71	1LE7503-0CC32-3AA4	29,200	●	▲
0.37	0.5	80	1LE7503-0DC22-3AA4	31,500	●	▲
0.55	0.75	80	1LE7503-0DC32-3AA4	35,100	●	▲
0.75	1	90S	1LE7503-0EC02-3AA4	40,600	●	▲
1.1	1.5	90L	1LE7503-0EC42-3AA4	48,100	●	▲
1.5	2	100L	1LE7503-1AC42-3AA4	57,400	●	▲
415VΔ 50Hz						
2.2	3	112M	1LE7503-1BC23-5AA4	67,700	●	▲
3.7	5	132S	1LE7503-1CC13-5AA4	97,700	●	▲
5.5	7.5	132M	1LE7503-1CC33-5AA4	116,100	●	▲
7.5	10	160M	1LE7503-1DC23-5AA4	181,500	●	▲
11	15	160L	1LE7503-1DC43-5AA4	226,100	●	▲
15	20	180L	1LE7503-1EC43-5AA4	282,300	●	▲
18.5	25	200L	1LE7503-2AC43-5AA4	391,800	●	▲
22	30	200L	1LE7503-2AC53-5AA4	433,100	●	▲
30	40	225M	1LE7503-2BC23-5AA4	588,200	●	▲

8 - Pole 750 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
240VΔ / 415VY 50Hz+						
0.12	0.2	71	1LE7503-0CD32-3AA4	30,300	●	▲
0.18	0.25	80	1LE7503-0DD22-3AA4	32,500	●	▲
0.25	0.35	80	1LE7503-0DD32-3AA4	36,500	●	▲
0.37	0.5	90S	1LE7503-0ED02-3AA4	39,400	●	▲
0.55	0.75	90L	1LE7503-0ED42-3AA4	47,700	●	▲
0.75	1	100L	1LE7503-1AD42-3AA4	50,300	●	▲
1.1	1.5	100L	1LE7503-1AD52-3AA4	54,800	●	▲
1.5	2	112M	1LE7503-1BD22-3AA4	76,200	●	▲
415VΔ 50Hz						
2.2	3	132S	1LE7503-1CD03-5AA4	95,200	●	▲
3.7	5	160M	1LE7503-1DD23-5AA4	204,800	●	▲
5.5	7.5	160M	1LE7503-1DD33-5AA4	230,700	●	▲
7.5	10	160L	1LE7503-1DD43-5AA4	248,900	●	▲
11	15	180L	1LE7503-1ED43-5AA4	328,000	●	▲
15	20	200L	1LE7503-2AD53-5AA4	426,800	●	▲
18.5	25	225S	1LE7503-2BD03-5AA4	520,900	●	▲
22	30	225M	1LE7503-2BD23-5AA4	605,300	●	▲

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

CE marking is not provided for 8 pole motors up to Frame size 225.

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● Datasheet

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SIMOTICS-Cast iron series 1LE7 - *IE3*

Premium Efficiency

CE

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	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
55	75	250M	1LE7503-2CA23-5AA4	911,900	●	▲
75	100	280S	1LE7503-2DA03-5AA4	1,208,800	●	▲
90	120	280M	1LE7503-2DA23-5AA4	1,400,200	●	▲
110	150	315S	1LE7503-3AA03-5AA4	1,654,700	●	▲
132	180	315M	1LE7503-3AA23-5AA4	2,029,800	●	▲
160	215	315L	1LE7503-3AA43-5AA4	2,228,200	●	▲
200*	270	315L	1LE7503-3AA63-5AA4	2,607,300	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
55	75	250M	1LE7503-2CB23-5AA4	903,600	●	▲
75	100	280S	1LE7503-2DB03-5AA4	1,127,900	●	▲
90	120	280M	1LE7503-2DB23-5AA4	1,308,200	●	▲
110	150	315S	1LE7503-3AB03-5AA4	1,484,700	●	▲
132	180	315M	1LE7503-3AB23-5AA4	1,748,400	●	▲
160	215	315L	1LE7503-3AB43-5AA4	2,045,300	●	▲
200	270	315L	1LE7503-3AB63-5AA4	2,483,000	●	▲
225	300	315L	1LE7503-3AB73-5AA4$	2,821,400	■	■
250#	335	315L	1LE7503-3AB79-0AA4 M1Y$	2,878,900	■	■

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
37	50	250M	1LE7503-2CC23-5AA4	851,400	●	▲
45	60	280S	1LE7503-2DC03-5AA4	1,067,800	●	▲
55	75	280M	1LE7503-2DC23-5AA4	1,213,900	●	▲
75	100	315S	1LE7503-3AC03-5AA4	1,391,100	●	▲
90	120	315M	1LE7503-3AC23-5AA4	1,745,600	●	▲
110	150	315L	1LE7503-3AC43-5AA4	1,946,900	●	▲
132	180	315L	1LE7503-3AC63-5AA4	2,277,200	●	▲
160	215	315L	1LE7503-3AC73-5AA4&	2,491,200	■	■
200	270	315L	1LE7503-3AC83-5AA4&	2,847,700	■	■

8 - Pole 750 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
30	40	250M	1LE7503-2CD23-5AA4	906,900	●	▲
37	50	280S	1LE7503-2DD03-5AA4	1,155,200	●	▲
45	60	280M	1LE7503-2DD23-5AA4	1,340,300	●	▲
55	75	315S	1LE7503-3AD03-5AA4	1,486,000	●	▲
75	100	315M	1LE7503-3AD23-5AA4	1,851,800	●	▲
90	120	315L	1LE7503-3AD43-5AA4	2,091,100	●	▲
110	150	315L	1LE7503-3AD53-5AA4	2,211,800	●	▲

* Temp rise limited to 75K by resistance method.

\# Temp rise limited to F class.

$ Larger terminal box R50 is mandatory.

& No CE Marking.

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● Datasheet

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SIMOTICS-Cast iron series 1LE7 - *IE4*

New

Super Premium Efficiency

CE

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	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
55	75	250M	1LE7504-2CA23-5AA4	1,185,500	●	▲
75	100	280S	1LE7504-2DA03-5AA4	1,571,500	●	▲
90	120	280M	1LE7504-2DA23-5AA4	1,820,300	●	▲
110	150	315S	1LE7504-3AA03-5AA4	2,233,800	●	▲
132	180	315M	1LE7504-3AA23-5AA4	2,638,700	●	▲
160	215	315L	1LE7504-3AA43-5AA4	2,896,700	●	▲
200	270	315L	1LE7504-3AA63-5AA4	3,389,400	●	▲

4 - Pole 1500 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
55	75	250M	1LE7504-2CB23-5AA4	1,166,800	●	▲
75	100	280S	1LE7504-2DB03-5AA4	1,466,200	●	▲
90	120	280M	1LE7504-2DB23-5AA4	1,700,600	●	▲
110	150	315S	1LE7504-3AB03-5AA4	2,004,400	●	▲
132	180	315M	1LE7504-3AB23-5AA4	2,272,900	●	▲
160	215	315L	1LE7504-3AB43-5AA4	2,658,800	●	▲
200	270	315L	1LE7504-3AB63-5AA4	3,227,800	●	▲

6 - Pole 1000 rev/min

Output		Frame Size	Ordering Code (MLFB)	Unit LP in ₹	●	▲
kW	HP					
37	50	250M	1LE7504-2CC23-5AA4	1,106,900	●	▲
45	60	280S	1LE7504-2DC03-5AA4	1,388,200	●	▲
55	75	280M	1LE7504-2DC23-5AA4	1,578,100	●	▲
75	100	315S	1LE7504-3AC03-5AA4	1,878,000	●	▲
90	120	315M	1LE7504-3AC23-5AA4	2,269,300	●	▲
110	150	315L	1LE7504-3AC43-5AA4	2,531,000	●	▲
132	180	315L	1LE7504-3AC63-5AA4	2,960,300	●	▲

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

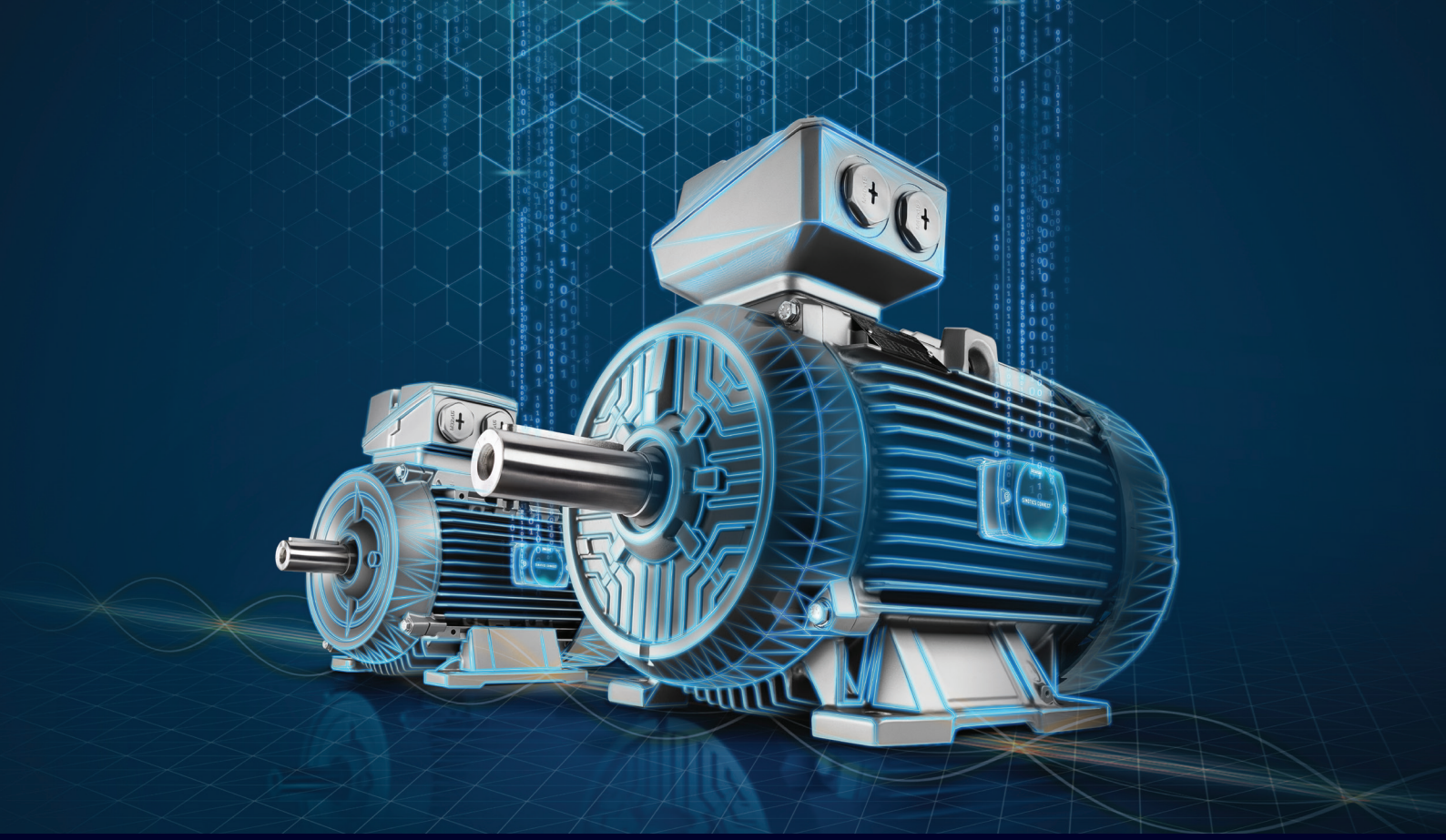
CE mark will be stamped on the nameplate only if the motor conforms to the requirements of COMMISSION REGULATION (EU) 2019/1781 of 1st October 2019 and its amendment issued vide COMMISSION REGULATION (EU) 2021/341 of 23rd February 2021 of the European Union.

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

● Datasheet

▲ GAD

For requirements below 55kW in 2 and 4 pole, contact nearest Sales Office.



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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						1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, 400VY	2-2						1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, 380VΔ	3-3						1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, 400VΔ	3-4						1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, 500VΔ@$	4-0						1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, Any Non std voltage mentioned in Table 10.1 (upto 480V)	9-0	M1Y					1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
60Hz, Any Non std voltage mentioned in Table 10.2 (upto 480V)&	9-0	Refer Table 10.2					1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, 690VΔ@$	4-7						1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
50Hz, 690VY@$	9-0	M1Y					1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
Voltage other than above	9-0	M1Y					Contact sales office												
Customized winding	9-0	M1Y					1,100	1,400	1,600	1,900	2,400	3,900	5,200	7,200	10,500	15,500	32,000	42,500	57,500
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				1,000	1,100	1,500	1,800	2,200	3,000	8,000	11,600	18,200	26,400	41,000	54,000	95,500
IMV3^			H				1,000	1,100	1,500	1,800	2,200	3,000	8,000	11,600	18,200	26,400	41,000	54,000	95,500
IMB5^			F				1,000	1,100	1,500	1,800	2,200	3,000	8,000	11,600	18,200	26,400	41,000	54,000	95,500
IMB14			K				1,300	1,600	1,800	2,200	2,700	4,300	Not Available						
IMV18			M				1,000	1,100	1,500	1,800	2,200	3,000	Not Available						
IMV19			L				1,000	1,100	1,500	1,800	2,200	3,000	Not Available						
IMB35			J				1,000	1,100	1,500	1,800	2,200	3,000	8,000	11,600	18,200	26,400	41,000	54,000	95,500
IMB34			N				1,300	1,600	1,800	2,200	2,700	4,300	Not Available						
IMV36[1]			Y				1,000	1,100	1,500	1,800	2,200	3,000	8,000	11,600	18,200	26,400	41,000	54,000	95,500
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				1,000	1,100	1,500	1,800	2,200	3,000	8,000	11,600	18,200	26,400	41,000	54,000	95,500

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

[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.

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			9,900	9,900	9,900	9,900	9,900	9,900	11,000	11,000	11,000	11,000	12,500	12,500	12,500
6x PTC thermistors for tripping (Class F)				B	Q11		19,800	19,800	19,800	19,800	19,800	19,800	22,000	22,000	22,000	22,000	24,500	24,500	24,500
6x PTC thermistors - 3x for alarm and 3x for tripping (Class F)				C			19,800	19,800	19,800	19,800	19,800	19,800	22,000	22,000	22,000	22,000	24,500	24,500	24,500
3x PTC thermistors for tripping (Class B)				B	Q90		9,900	9,900	9,900	9,900	9,900	9,900	11,000	11,000	11,000	11,000	12,500	12,500	12,500
6x PTC thermistors for tripping (Class B)				B	Q11+Q90		19,800	19,800	19,800	19,800	19,800	19,800	22,000	22,000	22,000	22,000	24,500	24,500	24,500
6x PTC thermistors - 3x for alarm and 3x for tripping (Class B)				C	Q90		19,800	19,800	19,800	19,800	19,800	19,800	22,000	22,000	22,000	22,000	24,500	24,500	24,500
3x PT100 resistance thermometers in stator winding - 2 wire				H			35,200	35,200	35,200	35,200	35,200	35,200	39,200	39,200	39,200	39,200	41,500	41,500	41,500
6x PT100 resistance thermometers in stator winding - 2 wire				J			On Enquiry						77,600	77,600	77,600	77,600	82,500	82,500	82,500
Embedded temperature sensor- PT1000				K			Not Available						13,200	13,200	13,200	13,200	14,500	14,500	14,500
2x Embedded temperature sensor- PT1000				L			Not Available						26,000	26,000	26,000	26,000	28,500	28,500	28,500
3x PT100 resistance thermometers in stator winding - 3 wire				Z	Q1B		Not Available						39,200	39,200	39,200	39,200	41,500	41,500	41,500
6x PT100 resistance thermometers in stator winding - 3 wire				Z	Q2B		Not Available						77,600	77,600	77,600	77,600	82,500	82,500	82,500
12x PT100 resistance thermometers in stator winding - 3 wire				Z	Q2B+Q66		Not Available												165,000
3x Bi-metallic sensors for trip operation (Thermostats)				Z	Q3A		9,900	9,900	9,900	9,900	9,900	9,900	11,000	11,000	11,000	11,000	12,500	12,500	12,500
6x Bi-metallic sensors (3x for alarm, 3x for tripping) (Thermostats)				Z	Q9A		19,800	19,800	19,800	19,800	19,800	19,800	22,000	22,000	22,000	22,000	24,500	24,500	24,500
3x Bi-metallic sensors for trip operation (Thermostats) - additional					Q31[2]		Not Available			9,900	9,900	9,900	11,000	11,000	11,000	11,000	12,500	12,500	12,500
6x Bi-metallic sensors for alarm and trip operation (Thermostats) - additional					Q32[2]		Not Available			19,800	19,800	19,800	22,000	22,000	22,000	22,000	24,500	24,500	24,500
3x PT100 resistance thermometers in stator winding - 3 wire (additional)					Q65[2]		Not Available						On Enquiry						
6x PT100 resistance thermometers in stator winding - 3 wire (additional) - [In addition to Q2B]					Q66[2]		On Enquiry												82,500
Terminal Box Position																			
Terminal Box on TOP						4	□	□	□	□	□	□	□	□	□	□	□	□	□
Mains Terminal box on RHS as viewed from DE						5	Not Available			5,500	6,100	6,800	16,000	16,000	18,200	22,600	30,500	32,000	36,500
Mains Terminal box on LHS as viewed from DE						6	Not Available			5,500	6,100	6,800	16,000	16,000	18,200	22,600	30,500	32,000	36,500

□ 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.

[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.

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
90	Any other voltage apart from those listed above.		M1Y

Notes:

1. Short codes are mandatory when 12 and 13 in MLFB is 9 and 0 respectively.
2. M1Y requires Hz, V and kW to be specified in plain text.
3. 60Hz mandates that a "-Z", Z = B59 to be specified.
4. For 1LE75 and 1LE76 all above voltages are possible for frames 71-225.

6 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

Options (Non-standard features / Accessories) - Simotics

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						35,200	35,200	35,200	35,200	71,000	71,000	71,000
2	2x PT100 screw-in resistance thermometers (3 wire) for rolling-contact bearings [Simplex 3 wire type]	Q67			Not Applicable						35,200	35,200	35,200	35,200	71,000	71,000	71,000
3	2x PT100 double screw-in resistance thermometers (3 wire) for rolling-contact bearings	Q68			Not Applicable						35,200	35,200	35,200	35,200	71,000	71,000	71,000
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			6,100	6,100	6,100	6,100	6,100	6,100	12,200	12,200	Not Available		Not Available		
10	6x flying leads, 1.5 m long	R23			9,200	9,200	9,200	9,200	9,200	9,200	18,200	18,200	18,200	18,200	49,000	61,000	115,000
11	6x flying leads, 3 m long	R24			12,100	12,100	12,100	12,100	12,100	12,100	24,200	24,200	24,200	24,200	61,000	73,000	152,000
12	Reducer	R30			Not Available			6,100	6,100	6,100	17,200	17,200	17,200	17,200	22,000	22,000	22,000
13	Removable cable entry plate	R52			Not Available							15,000	15,000	15,000	22,000	22,000	22,000
14	Undrilled removable entry plate	R53			Not Available							15,000	15,000	15,000	22,000	22,000	22,000
15	Next larger mains terminal box	R50			3,200	3,200	3,200	4,900	4,900	4,900	11,600#	13,800	13,800	13,800	30,000	33,000	47,000
16	Cable end box extension	R59	Possible only in combination with R52/ R53 for FS upto 280; R50 / R52 / R53 in FS 315		Not Available							13,000	16,600	16,600	21,000	29,000	29,000
17	1x Cast-iron auxiliary terminal box (Small)	R62			Not Available						10,000	10,000	10,000	10,000	13,000	13,000	13,000
18	1x Cast-iron auxiliary terminal box (Large)	R63			Not Available								15,000#	15,000#	19,000	19,000	19,000
19	2x Cast-iron auxiliary terminal box (Small)	R67			Not Available						19,800	19,800	19,800	19,800	25,000	25,000	25,000
20	2x Cast-iron auxiliary terminal box (Large)	R68			Not Available										37,000	37,000	37,000
21	Mains Terminal box - Cast Iron (where Al is a standard)	R64			2,700	2,700	2,700	3,700	3,700	3,700	5,000	5,000	☐	☐	☐	☐	☐
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			3,700	4,900	5,500	6,800	9,200	10,900	18,400	27,600	36,400	48,400	71,000	92,000	148,000
Environmental protection																	
29	Anti-corrosive treatment for winding overhang	N22			4,400	4,400	5,900	5,900	5,900	5,900	7,200	7,200	8,800	11,600	22,000	29,000	46,000

Notes:

1 Not available for IC416 cooling.
Only when configurable in DT-C.
* Prior quotation from works necessary.
☐ Standard Version.
O Without additional charges.
$ Suitable for Grid operation only.
& All 1LE76 motors which are 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) - Simotics

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										7,000	9,000	10,000
31	Increased air humidity / temperature (60g to 100g of water /m³ of air)	N31			On Enquiry										10,000	13,000	16,000
32	Sea worthy packaging	B12			20,900	20,900	20,900	25,300	25,300	25,300	36,400	37,400	41,400	47,400	59,000	85,000	114,000
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										126,000	126,000	126,000
35	Insulated Bearing at NDE	L53			Not Available						On Enquiry			163,000	163,000	163,000	163,000
36	Mounting of Separately Driven Fan	F70			Not Available						79,800	85,800	104,000	118,800	144,000	154,000	203,000
37	Separately driven fan with non-standard voltage and/or frequency	Y81	To be ordered alongwith F70		Not Available						6,200	6,200	6,200	6,200	9,000	9,000	9,000
Heating & Ventilation																	
38	Fan cover for textile industry (Clean Flow Fan Cowl includes Canopy)	F75			NA	4,300	4,300	7,300	7,300	8,600	8,600	Not Available			Not Available		
39	Metal external fan (Metal Fan [no AL])	F76	1		6,100	6,100	6,100	12,100	12,100	12,100	21,200	21,200	28,200	28,200	36,000	47,000	75,000
40	Without external fan and without fan cover	F90	1		3,700	3,700	3,700	3,700	3,700	3,700	8,200	8,200	11,000	11,000	14,000	20,000	30,000
41	Fan cover with Canopy	H00			4,600	4,900	5,200	5,500	5,900	6,500	8,600	8,600	11,600	11,600	15,000	21,000	32,000
42	Anti-condensation heaters for 230 V	Q02			NA	NA	5,500	5,500	5,500	5,500	8,600	8,600	11,600	11,600	15,000	15,000	15,000
43	Anti-condensation heaters for 115 V	Q03			NA	NA	5,500	5,500	5,500	5,500	8,600	8,600	11,600	11,600	15,000	15,000	15,000
44	Anti-condensation heaters for 240 V	Q07			NA	NA	5,500	5,500	5,500	5,500	7,200	7,200	10,000	10,000	11,000	11,000	11,000
45	Anti-condensation heaters for 120 V	Q08			NA	NA	5,500	5,500	5,500	5,500	7,200	7,200	10,000	10,000	11,000	11,000	11,000
Colour & Paint Finish																	
Paint Shades (If no paint shade is selected, then RAL 7030 is the standard)																	
46	Standard Paint Shade - RAL 7030				□	□	□	□	□	□	□	□	□	□	□	□	□
47	Standard RAL paint shades other than RAL7030	Y53	Specify RAL shade code in plain text		1,800	2,000	2,400	3,100	3,700	6,000	10,000	10,000	17,200	17,200	29,000	38,000	57,000
48	Special RAL paint shades or shades as per IS:5	Y56	Specify RAL/IS shade code in plain text		1,800	2,000	2,400	3,100	3,700	6,000	10,000	10,000	17,200	17,200	29,000	38,000	57,000

Notes: 1. Y53 or Y56 (only one at a time) can be combined with any of the paint finishes indicated in 43 to 47. Below. Just add the appropriate price from 41 or 42.
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)																	
49	Acrylic paint finish		60µ standard		□	□	□	□	□	□	□	□	□	□	□	□	□
50	Epoxy based Paint - Standard paint thickness	S07+ Y57 (90)	DFT 90µ		2,500	2,500	2,500	3,700	3,700	6,800	11,600	11,600	21,600	21,600	43,000	57,000	92,000
51	Epoxy based Paint - Special paint thickness DFT 120µ	S07+ Y57 (120)	DFT 120µ [Y57 (120)]		3,700	3,700	3,700	5,500	5,500	10,100	17,000	17,000	32,000	32,000	64,000	85,000	138,000
52	Epoxy based Paint - Special paint thickness DFT 180µ	S07+ Y57 (180)	DFT 180µ [Y57 (180)]		4,900	4,900	4,900	7,300	7,300	13,400	22,800	22,800	42,400	42,400	85,000	113,000	184,000
53	Special finish for use onshore sea air resistant	S03+ S06+ Y57+ H07	• 180µ [Y57(180)] • 240µ [Y57(240)]		On Enquiry												

Notes:

1 Not available for IC416 cooling.

\# Only when configurable in DT-C.

* Prior quotation from works necessary.

□ Standard Version.

O Without additional charges.

$ 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

Options (Non-standard features / Accessories) - Simotics

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 paint thickness for offshore use	S04+ S06+ Y57+ H07	295µ [Y57(295)]		On Enquiry												

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.

55	Motor supplied unpainted - only with (Red-oxide) Primer	S01			O	O	O	O	O	O	O	O	O	O	O	O	O
Encoders																	
56	Kubler Sendix 5020 HTL Rotary Pulse encoder-10	G11	without encoder termination cable		85,000	85,000	85,000	On Enquiry			Not Available				Not Available		
57	Kubler Sendix 5020 TTL Rotary Pulse encoder-10	G12			85,000	85,000	85,000	On Enquiry			Not Available				Not Available		
58	LL 861 900 220 rotary pulse encoder	G04			Not Available			161,000	161,000	161,000	182,000	182,000	205,000	205,000	238,000	238,000	238,000
59	HOG 9 DN 1024 I rotary pulse encoder	G05			Not Available			154,000	154,000	154,000	175,000	175,000	198,000	198,000	229,000	229,000	229,000
60	HOG 10 D 1024 I rotary pulse encoder	G06			Not Available			161,000	161,000	161,000	182,000	182,000	205,000	205,000	238,000	238,000	238,000
61	Baumer Thalheim make ITD 40 A4 Y126 1024 encoder	G17			Not Available			97,000	97,000	97,000	116,000	116,000	121,000	121,000	128,000	128,000	128,000
62	HOG 86 TP6 DN 1024 I encoder	G19			Not Available			132,000	132,000	132,000	150,000	150,000	156,000	156,000	162,000	162,000	162,000
63	Prepared for mounting Baumer Thalheim make ITD 40 A4 Y126 1024 - encoder	G44			Not Available			19,000	19,000	19,000	37,000	37,000	43,000	43,000	49,000	49,000	49,000
64	Prepared for mounting cylindrical shaft encoder - 16dia x 52	G45			Not Available			19,000	19,000	19,000	37,000	37,000	43,000	43,000	49,000	49,000	49,000
65	Prepared for any make Cylindrical Hollow Shaft Encoder	Y71			On Enquiry												
66	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		
67	Mounting of rotary pulse encoder HOG 10 DN 1024 I + FSL, (speed .... rpm), connection box protection against dust	Y76			Not Available						On Enquiry				On Enquiry		
68	Mounting of rotary pulse encoder HOG 10 DN 1024 I + E SL 93, (speed .... rpm), connection box protection against moisture	Y79			Not Available						On Enquiry				On Enquiry		
Brake motors																	
69	Mounting of disk brake	F01	Intorque brake For 4, 6 and 8 pole		6,400	8,100	10,100	13,500	18,400	NA	NA	NA	NA	NA	NA	NA	NA
70	Mounting of brake	F07	Emco brake For 2 pole only in Frame size- 71-112		11,300	15,100	16,300	20,600	21,200	24,200	32,900	33,900	36,300	39,100	NA	NA	NA
71	Brake supply voltage 24 V DC	F10			17,300	24,800	28,600	31,900	33,400	57,300	87,000	103,000	119,900	149,600	NA	NA	NA
72	Brake supply voltage 230 V AC, 50/60 Hz	F11			21,600	28,700	32,600	35,700	37,600	61,100	91,100	107,800	124,300	153,500	NA	NA	NA
73	Brake supply voltage 400 V AC, 50/60 Hz	F12			24,900	32,800	37,000	40,400	42,300	68,200	101,200	119,900	137,500	164,500	NA	NA	NA
74	Brake supply voltage 240 V AC, 50/60 Hz	F13			22,100	29,200	33,100	38,400	40,200	65,000	96,200	114,700	131,500	159,500	NA	NA	NA
75	Brake supply voltage 415 V AC, 50/60 Hz	F14			20,000	28,900	31,900	36,900	38,700	62,200	92,500	100,600	125,400	159,500	NA	NA	NA
76	Mechanical manual brake release with lever (cannot be locked)	F50			O	O	O	O	O	O	O	O	O	O	NA	NA	NA
Mechanical Design & Degrees of Protection																	
77	Vibration proof version	H02			On Enquiry										7,000	7,000	7,000
78	Condensation drainage holes - sealed with a plug	H03			2,200	2,200	2,200	□	□	□	□	□	□	□	□	□	□
79	Stainless steel fasteners (external)	H07			2,400	2,400	2,400	2,700	2,700	2,700	4,000	4,000	4,000	4,000	10,000	11,000	15,000
80	Mains Terminal box on NDE	H08			Not Available										On Enquiry		
81	IP65 degree of protection	H20			2,700	3,100	4,000	4,900	6,100	9,200	18,400	24,200	34,200	47,400	61,000	79,000	97,000
82	IP56 degree of protection (non-heavy-sea)	H22			2,700	3,100	4,000	4,900	6,100	9,200	18,400	24,200	34,200	47,400	61,000	79,000	97,000

Notes:

1 Not available for IC416 cooling.

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□ Standard Version.

O Without additional charges.

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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) - Simotics

Sr. No.	Description	Z-Code	Remarks	Note	Incremental LP in INR												
					71	80	90	100	112	132	160	180	200	225	250	280	315
Bearing & Lubrication																	
83	Measuring nipple for SPM shock pulse measurement for bearing inspection	Q01			Not Available			6,100	6,100	6,100	7,000	7,000	7,800	10,000	15,000	21,000	32,000
84	Locating bearing, DE	L20			On Enquiry												
85	Bearing design for increased cantilever forces	L22	NU (Cylindrical Roller) Brgs		Not Available						11,400	14,600	22,000	29,200	36,000	47,000	75,000
86	Regreasing device	L23			Not Available			1,700	2,200	3,100	6,600	8,800	13,200	□	□	□	□
87	Bearings reinforced at both ends for DE and NDE, bearing size 63	L25	Only where 62 series is a standard		1,600	1,700	1,800	2,200	2,700	4,200	□	□	□	□	□	□	□
88	C4 clearance bearing at DE & NDE	L31			Not Available						On Enquiry	9,800	18,200	24,200	37,000	43,000	49,000
89	SKF bearing at DE & NDE	L32			400	600	700	1,000	1,300	2,900	3,600	4,400	5,600	6,200	8,000	9,000	10,000
90	Double Sealed (ZZ) bearings (permanently lubricated)- only for ball bearings at DE & NDE)	L33			□	□	□	□	□	□	□	□	□	24,200	31,000	37,000	43,000
91	Customer specific regreasing interval	Y94			O	O	O	O	O	O	O	O	O	O	O	O	O
Balance & Vibration Quality																	
92	Vibration Severity Level A				□	□	□	□	□	□	□	□	□	□	□	□	□
93	Vibration Severity Level B	L00			4,100	4,100	4,100	10,200	10,200	10,200	14,600	14,600	24,200	24,200	40,000	40,000	40,000
94	Balancing without key	L01			1,500	1,500	1,500	3,500	3,500	3,500	11,000	11,000	22,000	22,000	35,000	48,000	76,000
95	Full key balancing	L02			1,500	1,500	1,500	3,500	3,500	3,500	11,000	11,000	22,000	22,000	35,000	48,000	76,000
Shaft & Rotor																	
96	Standard Double Shaft Extension (SDSE)	L05		1	3,500	3,500	3,500	4,400	4,400	4,400	8,800	11,800	16,600	20,400	22,000	30,000	48,000
97	Shaft material - Stainless steel	L06			4,600	7,100	10,400	13,400	16,800	21,400	On Enquiry				On Enquiry		
98	Non-standard cylindrical shaft extension - DE	Y58		*	4,900	4,900	4,900	6,400	6,400	6,400	15,000	20,200	26,400	33,000	38,000	49,000	78,000
99	Non-standard cylindrical shaft extension - NDE	Y59		*1	4,900	4,900	4,900	6,400	6,400	6,400	15,000	20,200	26,400	33,000	38,000	49,000	78,000
100	Special shaft steel:___	Y60			On Enquiry												
101	Tapered shaft extension DE	Y62			On Enquiry												
102	Tapered shaft extension NDE	Y63		*1	On Enquiry												
103	Oil Tight shaft	H23	Only for Flange motors and gear box assembly		3,000	3,000	3,000	4,200	4,200	4,200	8,000	10,800	14,400	21,600	On Enquiry		
Rating Plate & Extra Rating Plate																	
104	Stainless steel nameplate				□	□	□	□	□	□	□	□	□	□	□	□	□
105	Direction indicating arrow - Clockwise	L10			700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
106	Direction indicating arrow - Counter-clockwise	L11			700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
107	Extra rating plate with deviating rating plate data	Y80			700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
108	Extra rating plate with identification code - Auxilliary nameplate	Y82			700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
109	Nameplate in accordance with IEC	B59	2		700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
110	Additional information on rating plate and on package label (max. of 20 characters)	Y84			700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
111	Second rating plate, supplied loose	M10			700	700	700	900	900	900	1,400	1,400	1,800	1,800	3,000	4,000	5,000
Testing Charges																	
112	Witnessing of Routine Test as per IS15999	B65			15,000	15,000	15,000	15,000	15,000	15,000	30,000	30,000	30,000	30,000	61,000	73,000	91,000
113	Visual Inspection (Includes Dimension Measurement and paint shade and thickness)	B66			3,000	3,000	3,000	3,000	3,000	3,000	7,800	7,800	8,400	8,400	15,000	15,000	15,000
114	Type test as per IS 15999	B83			40,000	40,000	40,000	40,000	40,000	40,000	66,500	66,500	90,000	90,000	125,000	133,500	151,500
115	Noise measurement without spectrum analysis with acceptance	B70			On Enquiry												
116	Noise measurement with spectrum analysis with acceptance	B72			On Enquiry												

Notes:

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Extra Price Calculations

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Add incremental LP to base price of motor & then offer discount.

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SIEMENS

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

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

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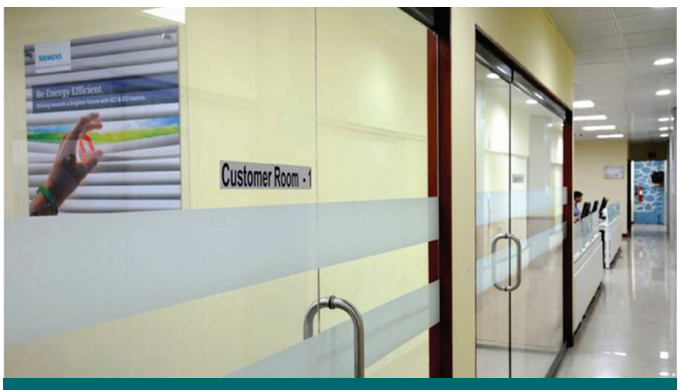
Based on IEC 60034-30-1, the Indian standard IS 12615 for energy efficient *IE2* / *IE3* / *IE4* motors refers to related standard IS 15999 (Part 2 / Sec 1) & *IEC 60034-2-1 : 'Rotating electrical machines; Part 2-1* for determining losses and efficiency from tests (excluding machines for traction vehicles)'. 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, 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 kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1SE0 356-2NC80	2,957,000
315	425	355L	1SE0 357-2NC80@	3,219,900

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1SE0 356-4NB80	2,856,000
315	425	355L	1SE0 357-4NB80	3,276,300

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
160	215	355L	1SE0 356-6NB80	2,521,400
200	270	355L	1SE0 357-6NC80	2,882,600
250	335	355L	1SE0 358-6NB80	2,965,600

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

CE#

2 - Pole 3000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1LA2 356-2NC80	3,306,300
315	425	355L	1LA2 357-2NC80@	3,599,800

4 - Pole 1500 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
250	335	355L	1LA2 356-4NB80	3,134,800
315	425	355L	1LA2 357-4NB80	3,596,400

6 - Pole 1000 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
160	215	355L	1LA2 356-6NB80	2,768,000
200	270	355L	1LA2 357-6NC80	3,164,100
250	335	355L	1LA2 358-6NB80	3,315,400

8 - Pole 750 rev/min

Output kW	Output HP	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz				
132	180	355L	1SE0 356-8YB80	2,642,600
160	215	355L	1SE0 357-8YB80	2,989,400
200	270	355L	1SE0 358-8YB80@	3,289,500

1PQ0 Series - Separately cooled Converter duty motors for constant torque applications. Degree of Prot. IP55, Ins Class 'F'. Ambient 50°C, 415V, 50Hz, Class F rise through VFD operation, Cooling- IC 416, *IE2* efficiency class

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	3,574,100
315	425	355L	1PQ0 357-2YC80	3,943,400

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	3,194,300
315	425	355L	1PQ0 357-4YB80	3,759,800

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	3,027,400
200	270	355L	1PQ0 357-6YC80	3,323,900
250	335	355L	1PQ0 358-6YB80	3,582,500

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	3,190,200
160	215	355L	1PQ0 357-8YB80	3,521,100
200	270	355L	1PQ0 358-8YB80	3,681,600

@ Temp. rise limited to 80K.

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.

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

Insulated bearings are mandatory for 1PQ0 motors in frames 280 and above 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 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, Siemens 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

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1LA8 N-compact Motors - *IE3*

IE4 available on request

Premium Efficiency

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, 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	4,507,600
400	355	1LA8 356-2AC70	4,736,400
500	355	1LA8 357-2AC70	4,970,800
560	400	1LA8 403-2AC70	On Enquiry
630	400	1LA8 405-2AC70	On Enquiry
710*	400	1LA8 407-2AC00	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.

4 - Pole 1500 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
355	355	1LA8 353-4AB70	3,771,200
400	355	1LA8 356-4AB70	4,350,300
500	355	1LA8 357-4AB70	4,794,000
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

6 - Pole 1000 rev/min

Output kW	Frame Size	Ordering Code (MLFB)	Unit LP in ₹
415VΔ 50Hz			
315	355	1LA8 356-6YB70	4,223,200
400	355	1LA8 357-6AB70	4,472,000
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	4,040,600
315	355	1LA8 357-8AB70	4,670,300
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						–	–

Contact nearest sales office for requirement of IE4 efficiency class motors .

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 *IE2* for Converter (VFD) Duty Applications

IE3 available on request

High Efficiency

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, 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	5,236,700
400	355	1PQ8 356-2PC70	5,465,700
500	355	1PQ8 357-2PC70	5,668,600
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	4,207,400
400	355	1PQ8 356-4PB70	4,805,800
500	355	1PQ8 357-4PB70	5,229,900
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	4,456,500
400	355	1PQ8 357-6PB70	4,655,200
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	4,476,400
315	355	1PQ8 357-8PB70	5,106,400
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	IMV1 with canopy	IMB35
355	6	7	5	0	0	8	4	6
400/450/500						–	–	-

Contact nearest sales office for requirement of IE3 efficiency class motors .

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

IE efficiency class is applicable for ratings upto 1000kW.

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.

* Available with 690VD as standard voltage.

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

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

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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] +	
							%	₹
Non-standard Winding								
1	Non-standard output	L1Y	Give details in plain text	*	✓	✓	Nil	Nil
2	Non-standard voltage 220-500V 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	@	✓	✓	-	3,000
7	3 + 3 PTC. 3 for Alarm, 3 for Trip	A12	Class B	@	✓	✓	-	6,000
8	6 PTC - Trip	A13	Class B	@,7	✓	✓	-	6,000
9	3 PTC - Trip	A14	Class F	@,7	✓	✓	-	3,000
10	3 + 3 PTC. 3 for Alarm, 3 for Trip	A15	Class F	@,7	✓	✓	-	6,000
11	6 PTC - Trip	A16	Class F	@,7	✓	✓	-	6,000
12	RTDs - 3 Nos. PT 100 Simplex	A60		@	✓	✓	-	10,600
	RTDs - 6 Nos. PT 100 Simplex	A61			✓		-	21,200
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				✓	On Enquiry	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				✓	-	-	4,400
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			✓	✓	-	3,600
Bearings								
32	NU bearing at DE	K20			✓	-	-	17,000
33	BTDs - 2 Nos. Simplex	A72			✓	✓	-	10,000
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
\+ **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).
& All 60 motors delivered on or after 1st July 2021 will not be marked CE.

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] +	
							%	₹
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	✓	-	-	6,200
				5	-	✓	-	10,000
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		Contact Sales for more details		✓	✓	-	Nil
44	Anti-condensation heaters 220 - 240V, 1Ph	K45	For Frames 355	@, 7	✓	-	-	4,400
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
	Auxiliary data plate	Y82	Specify punching details					-
48	Wooden Packing		Frames 355		✓	-		12,200
			For 1LA8/1PQ8 355		-	✓		21,400
			For 1LA8/1PQ8 400		-	✓		24,200
			For 1LA8/1PQ8 450 and above		-	✓		30,400
49	Sea Worthy Packing		Frames 355		✓	-		36,400
			For 1LA8/1PQ8 355		-	✓		48,400
			For 1LA8/1PQ8 400		-	✓		60,600
			For 1LA8/1PQ8 450 and above		-	✓		72,600
Converter Fed Motors								
49	Inverter grade winding treatment (Voltages ≤ 500V) VPI = Vacuum Pressure Impregnation	VPI	For frame 355 and 1LA8	6	✓	✓	Nil	-
	Inverter grade winding for Voltages >500V		For frame 355 and 1LA8		✓	✓	-	On Enquiry
50	Insulated Bearing at NDE	L27	1LA2/1PQ0/1SE0 Frames 355		✓	-	-	51,500
			1LA8 Frames 355 [355 Frame 4-8P]		✓	✓	-	59,000
			1LA8 Frame 355,400 - 2Pole		✓	-	-	90,500
			1LA8 Frames 400 and above		✓	-		73,000
51	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%	
52	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								
53	Witnessing of Routine Test as per IS 12615 / IEC 60034-1 (IS:15999 wherever applicable)		Frames 355		✓	✓	-	25,000
			Frames 400 - 500		-	✓		38,500
54	Type test as per IS 12615 / IEC 60034-1 (IS:15999 wherever applicable)		Frames 355	4	✓	✓	-	44,000
			For 1LA8/1PQ8 355 - 400		-	✓		64,000
			For 1LA8/1PQ8 450 - 500	*	-	✓	-	75,000

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

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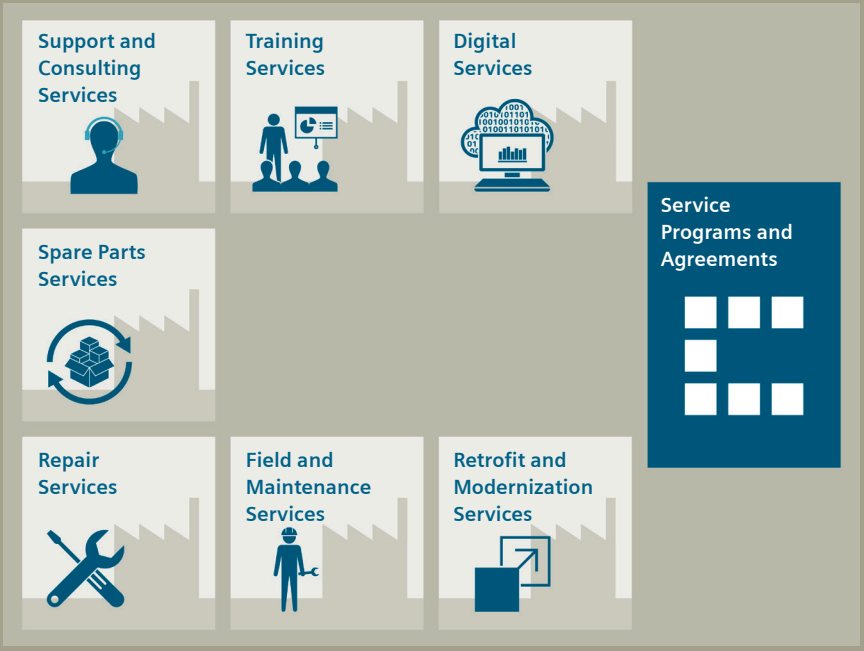

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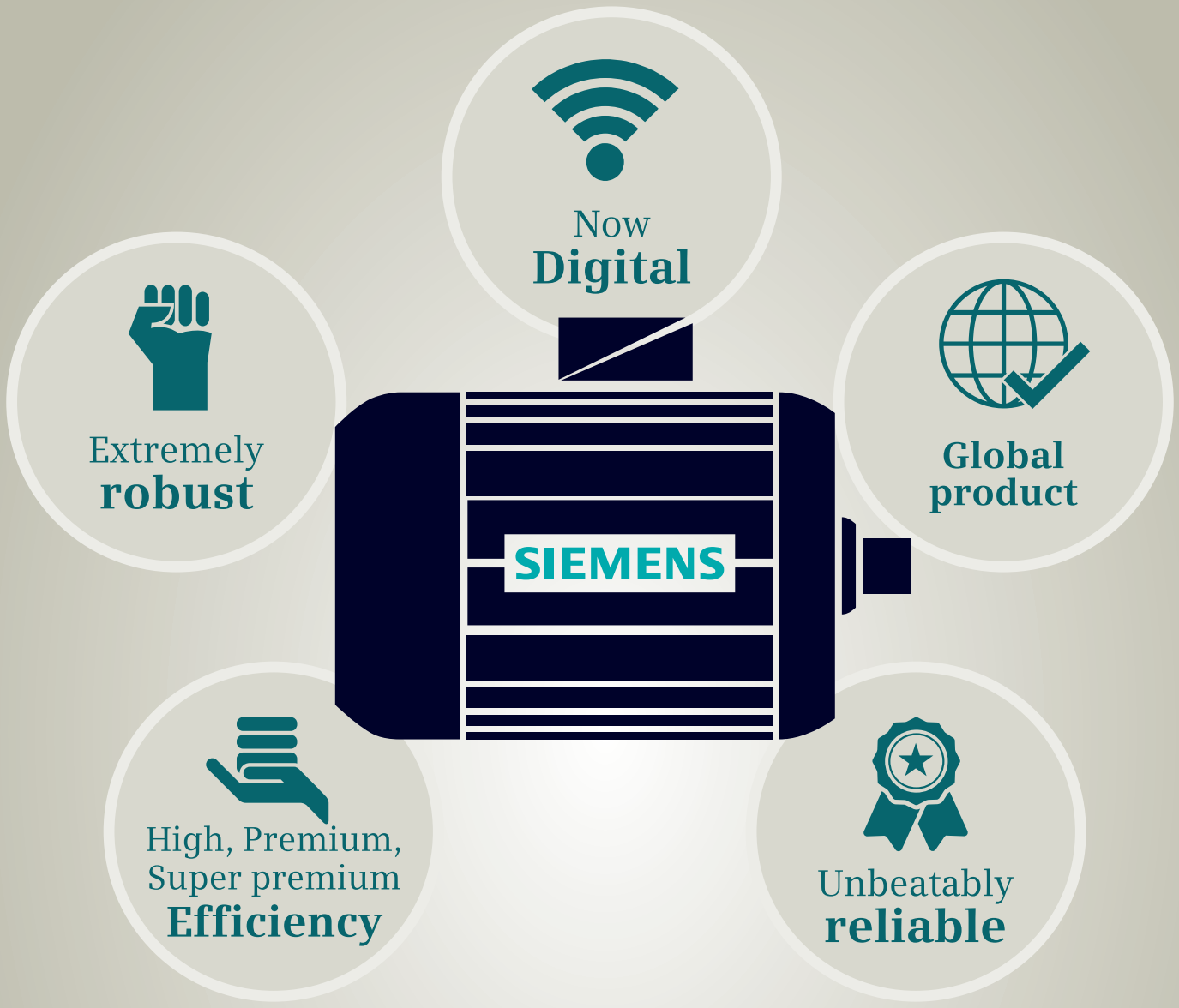

IE2, IE3 & IE4

Global excellence.
Indigenous endurance.

SIMOTICS 1LE7 Motors

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SIMOTICS-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.

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

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.		

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													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

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

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 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.

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.

All 8 pole motors up to frame size 225 will not carry CE mark.

SIEMENS

SIMOTICS-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 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	1LE7603-2CB23-4JC5-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)

IE4 motors are currently possible in FS 250-315.

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.

All 8 pole motors up to frame size 225 will not carry CE mark.

Notes

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(This replaces DI-LVM-1005-2021)

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