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## Take a giant leap into an energy-efficient future

LP-Mot/196, List Price  
w.e.f. 12<sup>th</sup> March, 2017

This supercedes all previous price lists.



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# Index

- This replaces our price list LP-Mot/195 01st January 2015.
- Prices are subject to change without notice.
- Prices are ex-works/ex-godown.
- While motor output is given in kW and HP, the former is binding and exact HP output is to be based on 1kW=1.34HP.

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<b>All motors are Totally Enclosed Fan Cooled (TEFC) with Squirrel Cage Rotor</b>		
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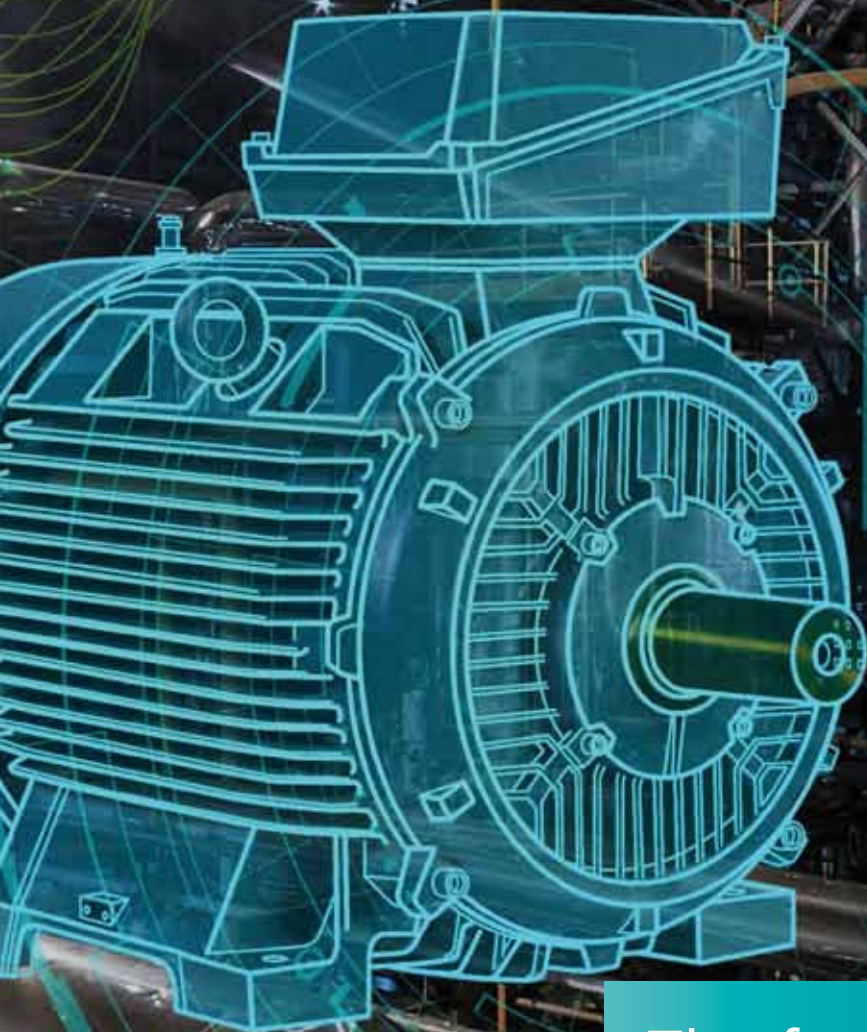
# Totally Enclosed (TE) Motor without cooling fan

For Technical details, Please refer catalogues or contact our nearest sales office. (details on back cover)



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## The future of energy- efficiency is here

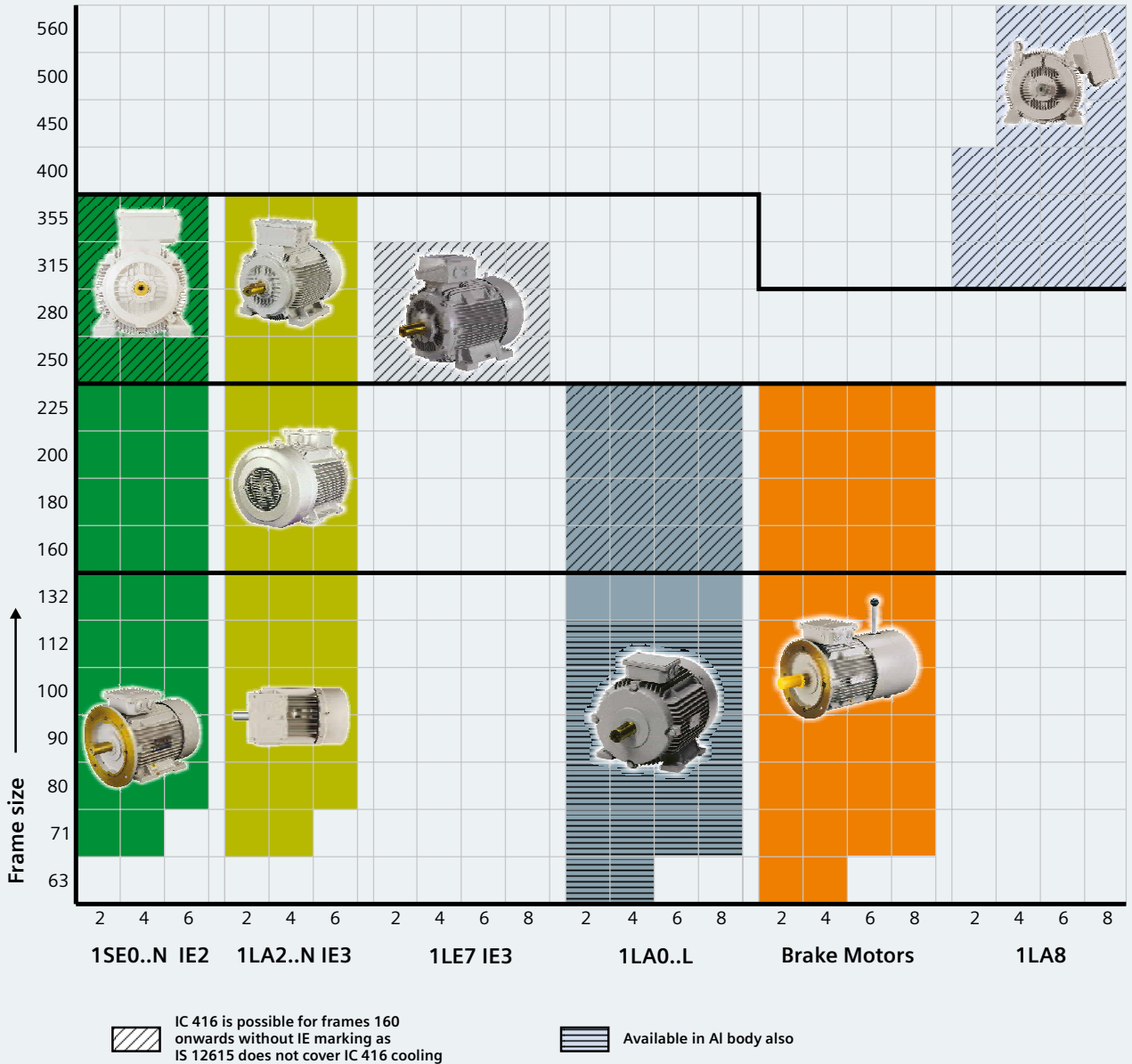
Presenting SIMOTICS 1LE7 Range of Motors

For 150 years, Siemens have been in the forefront of developing innovative motor technology. In line with this tradition, the SIMOTICS 1LE7 is the most advanced range of energy-efficient LV motors, manufactured in India that is in par with the global range. Motors with efficiency better than the IE3 standard, they are designed to significantly enhance the efficiency level of your production, reduce operating costs and protect the environment.

To move towards energy-efficient future, write to us today, at [motors.in@siemens.com](mailto:motors.in@siemens.com).

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# LV Motors Range



# SIMOTICS-Cast iron series 1LE7 - IE3



Efficiency higher than 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	Type reference (MLFB)	Unit LP in ₹
kW	HP			
55	75	250M	1LE7503-2CA23-5AA4	511,310
75	100	280S	1LE7503-2DA03-5AA4	666,000
90	120	280M	1LE7503-2DA23-5AA4	771,410
110	150	315S	1LE7503-3AA03-5AA4	928,225
132	180	315M	1LE7503-3AA23-5AA4	1,138,750
160	215	315L	1LE7503-3AA43-5AA4	1,250,010
200*	270	315L	1LE7503-3AA63-5AA4	1,462,870

4 - Pole 1500 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
55	75	250M	1LE7503-2CB23-5AA4	473,780
75	100	280S	1LE7503-2DB03-5AA4	607,110
90	120	280M	1LE7503-2DB23-5AA4	704,345
110	150	315S	1LE7503-3AB03-5AA4	813,990
132	180	315M	1LE7503-3AB23-5AA4	958,535
160	215	315L	1LE7503-3AB43-5AA4	1,121,490
200	270	315L	1LE7503-3AB63-5AA4	1,361,485

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
37	50	250M	1LE7503-2CC23-5AA4	477,580
45	60	280S	1LE7503-2DC03-5AA4	598,945
55	75	280M	1LE7503-2DC23-5AA4	680,990
75	100	315S	1LE7503-3AC03-5AA4	780,270
90	120	315M	1LE7503-3AC23-5AA4	979,380
110	150	315L	1LE7503-3AC43-5AA4	1,092,230
132	180	315L	1LE7503-3AC63-5AA4	1,277,700










8 - Pole 750 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
30	40	250M	1LE7503-2CD23-5AA4	465,400
37	50	280S	1LE7503-2DD03-5AA4	592,810
45	60	280M	1LE7503-2DD23-5AA4	687,895
55	75	315S	1LE7503-3AD03-5AA4	762,615
75	100	315M	1LE7503-3AD23-5AA4	950,420
90	120	315L	1LE7503-3AD43-5AA4	1,073,210
110	150	315L	1LE7503-3AD53-5AA4	1,135,250

\* Temp rise limited to 75K by resistance method.

Note: 8 pole motors shall conform to IEC 60034-1.

Global excellence.  
Indigenous endurance.  
SIMOTICS 1LE7 Motors

# Selection & Ordering codes for 1LE7

MLFB Position	Voltage code	Construction code	Winding Protection code	Terminal Box code	Incremental LP in INR			
	12th & 13th	14th	15th	16th	250	280	315	
1LE7503-□□□	■-■□□□	□-□■□□	□-□□■□	□-□□□■				
<b>Voltage</b>								
50Hz, 415VΔ	3-5				□	□	□	
50Hz, 220VΔ	2-1				25,000	33,000	45,000	
50Hz, 230VΔ	2-2				25,000	33,000	45,000	
50Hz, 240VΔ	2-3				25,000	33,000	45,000	
50Hz, 360VΔ®	9-0				25,000	33,000	45,000	
50Hz, 380VΔ	3-3				25,000	33,000	45,000	
50Hz, 400VΔ	3-4				25,000	33,000	45,000	
50Hz, 440VΔ®	9-0				25,000	33,000	45,000	
50Hz, 460VΔ®	9-0				25,000	33,000	45,000	
50Hz, 480VΔ®	9-0				25,000	33,000	45,000	
50Hz, 500VΔ	4-0				25,000	33,000	45,000	
Voltage other than above &/or frequency other than 50Hz					on enquiry			
<b>Type of Construction</b>								
 IMB3		A			□	□	□	
 IMV5		C			○	○	○	
 IMV6		D			○	○	○	
 IMV1		G			25,000	33,000	67,500	
 IMV3#		H			25,000	33,000	67,500	
 IMB5#		F			25,000	33,000	67,500	
 IMB35		J			25,000	33,000	67,500	
 IMV36		Y			25,000	33,000	67,500	
 IMV15		W			25,000	33,000	67,500	
<b>Winding Protection</b>			<b>MLFB: 15<sup>th</sup></b>	<b>Z Code if any</b>				
Without without protection			A		□	□	□	
3x PTC thermistors for tripping (Class F)			B		7,000	7,000	7,000	
6x PTC thermistors for tripping (Class F)			B	Q11	14,000	14,000	14,000	
6x PTC thermistors - 3x for alarm and 3x for tripping (Class F)			C		14,000	14,000	14,000	
3x PTC thermistors for tripping (Class B)			B	Q90	7,000	7,000	7,000	
6x PTC thermistors for tripping (Class B)			B	Q11+Q90	14,000	14,000	14,000	
6x PTC thermistors - 3x for alarm and 3x for tripping (Class B)			C	Q90	14,000	14,000	14,000	
Embedded temperature sensor KTY 84-130			F		5,000	5,000	5,000	
Embedded temperature sensors 2x KTY 84-130			G		10,000	10,000	10,000	
3x PT100 resistance thermometers in stator winding - 2 wire			H		25,000	25,000	25,000	
6x PT100 resistance thermometers in stator winding - 2 wire			J		50,000	50,000	50,000	
3x PT100 resistance thermometers in stator winding - 3 wire			Z	Q1B	25,000	25,000	25,000	
6x PT100 resistance thermometers in stator winding - 3 wire			Z	Q2B	50,000	50,000	50,000	
12x PT100 resistance thermometers in stator winding - 3 wire			Z	Q2B+Q66	NA <sup>\$</sup>	NA <sup>\$</sup>	1,00,000	
3x Bi-metallic sensors for trip operation (Thermostats)			Z	Q3A	7,000	7,000	7,000	
6x Bi-metallic sensors (3x for alarm, 3x for tripping) (Thermostats)			Z	Q9A	14,000	14,000	14,000	
<b>Terminal Box Position</b>								
Terminal Box on TOP					4	□	□	□
Terminal Box on RHS by means of L-Shaped adaptor piece					5	○	○	○
Terminal Box on LHS by means of L-Shaped adaptor piece					6	○	○	○

- Standard Version
- Without additional charges.

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

- Note:**
- \$ Not available in 250 & 280 frame.
  - # Except frame 315L
  - @ Code 9-0 in position 12-13 requires additional order code M1Y along with plain text mentioning voltage & frequency.

# Price Add-ons for 1LE7

Sr. No.	Description	Z- Code	Remarks	Note	Incremental LP in INR		
					250	280	315
<b>Bearing Protection</b>							
1	2x PT100 screw-in resistance thermometers (2 wire) for rolling-contact bearings [Simplex 2 wire type]	Q72			23,500	23,500	23500
2	2x PT100 screw-in resistance thermometers (3 wire) for rolling-contact bearings [Simplex 3 wire type]	Q67			25,000	25,000	25000
3	2x PT100 double screw-in resistance thermometers (3 wire) for rolling-contact bearings [Duplex 2 wire type]	Q68			50,000	50,000	50,000
<b>Connection and Connection Box</b>							
4	Second external grounding (earthing) terminal on motor feet	H70			□	□	□
5	Rotation of the mains terminal box through 90°, entry from DE	R10			O	O	O
6	Rotation of the mains terminal box through 90°, entry from NDE	R11			O	O	O
7	Rotation of mains terminal box through 180°	R12			O	O	O
8	3x flying leads, 0.5 m long	R20			On Enquiry		
9	3x flying leads, 1.5 m long	R21			On Enquiry		
10	6x flying leads, 0.5 m long	R22			On Enquiry		
11	6x flying leads, 1.5 m long	R23			On Enquiry		
12	6x flying leads, 3 m long	R24			On Enquiry		
13	Reducer	R30			15000	15000	15000
14	Undrilled removable entry plate	R53			On Enquiry		
15	Next larger mains terminal box	R50			10,000	15,000	25,000
16	1x Cast-iron auxiliary terminal box (Small)	R62			10,000	10,000	10,000
17	1x Cast-iron auxiliary terminal box (Large)	R63			15,000	15,000	15,000
18	2x Cast-iron auxiliary terminal box (Small)	R67			On Enquiry		
19	2x Cast-iron auxiliary terminal box (Large)	R68			On Enquiry		
20	Mains Terminal box - Cast Iron (where AI is a standard)	R64			□	□	□
<b>Winding &amp; Insulation</b>							
21	Ambient temperature 55°C (F utilised to B limits)	N07	Only with 1LE76/1LE77		On Enquiry		
22	Temperature class 180 (H) at rated output	N10			50,000	65,000	105,000
<b>Environmental protection</b>							
23	Anti-corrosive treatment for winding overhang	N22			15,000	20,000	32,000
<b>Motors for Converter Fed Operation</b>							
24	Inverter suitable winding (Inverter output voltage ≤500V)				□	□	□
25	Inverter suitable winding (Inverter output voltage >500V and ≤690V) <sup>+</sup>				90,000	90,000	90,000
26	Insulated Bearing at NDE	L53			85,000	85,000	85,000
27	Mounting of Separately Driven Fan	F70			60,000	78,000	145,000
28	Separately driven fan with non-standard voltage and/or frequency	Y81			6,000	6,000	6,000
<b>Heating &amp; Ventilation</b>							
29	Metal external fan (Metal Fan [no AL])	F76		1	25,000	33,000	52,500
30	Fan cover with Canopy	H00			10,000	14,000	22,000
31	Anti-condensation heaters for 230 V	Q02			10,000	10,000	10,000

## Notes:

1 Not available for IC416 cooling.

\* Prior quotation from works necessary

□ Standard Version

O Without additional charges.

+ Inverter suitable winding >500V: 6<sup>th</sup> position in MLFB should be with digit "9" (1LE759)

### 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

Sr. No.	Description	Z- Code	Remarks	Note	Incremental LP in INR		
					250	280	315
32	Anti-condensation heaters for 115 V	Q03			10,000	10,000	10,000
33	Anti-condensation heaters for 240 V	Q07			7,000	7,000	7,000
34	Anti-condensation heaters for 120 V	Q08			7,000	7,000	7,000
<b>Colour &amp; Paint Finish</b>							
<b>Paint Shades</b>							
35	Standard Paint - Acrylic based paint - shade RAL 7030				□	□	□
36	Standard RAL paint shades other than RAL7030 (Standard Acrylic based paint)	Y53	Specify RAL shade code in plain text		20,000	26,000	40,000
37	Special RAL paint shades or shades as per IS:5 (Standard Acrylic based paint)	Y56	Specify RAL/IS shade code in plain text		20,000	26,000	40,000
<b>Paint Finish</b>							
38	Acrylic paint finish		• 60μ standard.		□	□	□
39	Epoxy based Paint	S07	• Paint shade RAL 7030 by default. • Paint thickness 90μ standard.		30,000	40,000	65,000
40	Standard RAL paint shades other than RAL7030 (Epoxy based paint)	S07+Y53	• Paint thickness 90μ standard. • Specify RAL shade code in plain text		50,000	66,000	105,000
41	Special RAL paint shades or shades as per IS:5 (Epoxy based paint)	S07+Y56	• Paint thickness 90μ standard. • Specify RAL/IS shade code in plain text		50,000	66,000	105,000
42	Special paint thickness for epoxy based paint	S07+Y57	120μ [Y57 (120)] 180μ [Y57 (180)] Need additional inputs in plain text		On Enquiry		
43	Motor supplied unpainted - only with (Red-oxide) Primer	S01			O	O	O
44	Special finish for use onshore sea air resistant (H07 also must be selected)	S06	180μ as standard		On Enquiry		
45	Special paint for use offshore (H07 also must be selected)	S06+Y57			On Enquiry		
46	Special paint thickness for offshore paint	S06+Y57	240μ [Y57 (240)] 295μ [Y57 (295)] Need additional inputs in plain text		On Enquiry		
<b>Encoders</b>							
47	LL 861 900 220 rotary pulse encoder	G04			101,250	101,250	101,250
48	HOG 9 D 1024 I rotary pulse encoder	G05			90,000	90,000	90,000
49	HOG 10 D 1024 I rotary pulse encoder	G06			97,500	97,500	97,500
50	Baumer Thalheim make ITD 40 A4 Y126 1024 encoder	G17			54,000	54,000	54,000
51	HOG 86 TP6 DN 1024 I encoder	G19			85,500	85,500	85,500
52	Prepared for mounting Baumer Thalheim make ITD 40 A4 Y126 1024 - encoder	G44			25,000	33,000	52,500
53	Prepared for mounting cylindrical shaft encoder - 16dia x 52	G45			25,000	33,000	52,500
54	Prepared for any make Cylindrical Hollow Shaft Encoder	Y71			On Enquiry		

## Notes:

1 Not available for IC416 cooling.

\* Prior quotation from works necessary

□ Standard Version

O Without additional charges.

+ Inverter suitable winding >500V: 6<sup>th</sup> position in MLFB should be with digit "9" (1LE759)

### 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

Sr. No.	Description	Z- Code	Remarks	Note	Incremental LP in INR		
					250	280	315
<b>Mechanical Design &amp; Degrees of Protection</b>							
55	Condensation drainage holes - sealed with a plug	H03			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56	Stainless steel fasteners (external)	H07			On Enquiry		
57	IP65 degree of protection	H20			On Enquiry		
58	IP56 degree of protection (non-heavy-sea)	H22			On Enquiry		
<b>Bearing &amp; Lubrication</b>							
59	Measuring nipple for SPM shock pulse measurement for bearing inspection	Q01			10,000	14,000	22,000
60	Bearing design for increased cantilever forces	L22	NU (Cylindrical Roller) Brgs		25,000	33,000	52,500
61	Regreasing device	L23			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62	Special bearing for DE and NDE, bearing size 63	L25	Only where 62 series is a standard		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Balance &amp; Vibration Quality</b>							
63	Vibration Severity Level A				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64	Vibration Severity Level B	L00			On Enquiry		
65	Balancing without key	L01			On Enquiry		
66	Full key balancing	L02			On Enquiry		
<b>Shaft &amp; Rotor</b>							
67	Standard Double Shaft Extension (SDSE)	L05		1	15,000	20,000	32,000
68	Non-standard cylindrical shaft extension - DE	Y58		*	25,000	33,000	52,500
69	Non-standard cylindrical shaft extension - NDE	Y59		*1	25,000	33,000	52,500
70	Tapered Shaft Extension DE	Y62		1	On Enquiry		
71	Tapered Shaft Extension NDE	Y63		*1	On Enquiry		
72	Special shaft steel	Y60			On Enquiry		
<b>Rating Plate &amp; Extra Rating Plate</b>							
73	Stainless steel nameplate				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74	Direction indicating arrow - Clockwise	L10			10,000	14,000	22,000
75	Direction indicating arrow - Counter-clockwise	L11			10,000	14,000	22,000
76	Extra rating plate with deviating rating plate data	Y80			10,000	14,000	22,000
77	Extra rating plate with identification code - Auxilliary nameplate	Y82			10,000	14,000	22,000
78	Nameplate in accordance with IEC	B59			10,000	14,000	22,000
79	Additional information on rating plate and on package label (max. of 20 characters)	Y84			10,000	14,000	22,000
<b>Other Miscellaneous Features</b>							
80	Sea Worthy Packing (packing suitable for sea transport)				On Enquiry		
<b>Testing Charges</b>							
81	Witnessing of Routine Test as per IS15999	B65			25,000	25,000	25,000
82	Visual Inspection (Includes Dimension Measurement and paint shade and thickness)	B66			10,000	10,000	10,000
83	Type test as per IS 15999	B83			85,000	85,000	85,000
84	Noise measurement without spectrum analysis with acceptance	B70			On Enquiry		
85	Noise measurement with spectrum analysis with acceptance	B72			On Enquiry		

## Notes:

1 Not available for IC416 cooling.

\* Prior quotation from works necessary

Standard Version

Without additional charges.

+ Inverter suitable winding >500V: 6<sup>th</sup> position in MLFB should be with digit "9" (1LE759)

### Extra Price Calculations

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

# 1SE0..N CHAMPION Series Motors - IE2



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

2 - Pole 3000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
<b>240VΔ / 415VY 50Hz</b>				
0.37**	0.5	71	1SE0 070-2NC70	11,755
0.55**	0.75	71	1SE0 073-2NC70	13,205
0.75	1	80	1SE0 080-2NC70	13,680
1.1	1.5	80	1SE0 083-2NC70	14,935
1.5	2	90S	1SE0 090-2NB70	17,925
<b>415VΔ 50Hz</b>				
2.2	3	90L	1SE0 096-2NB80	22,935
3.7	5	100L	1SE0 107-2NA80	26,880
5.5	7.5	132S	1SE0 130-2NC80	43,485
7.5	10	132S	1SE0 131-2NC80	47,630
11	15	160M	1SE0 163-2NB80	83,295
15	20	160M	1SE0 164-2NB80	95,845
18.5	25	160L	1SE0 166-2NA80	124,210
22	30	180M	1SE0 183-2NB80#	134,710
30	40	200L	1SE0 207-2NB80	200,020
37	50	200L	1SE0 208-2NB80#	244,200
45	60	225M	1SE0 224-2NB80	314,225
55	75	250M	1SE0 254-2NB80	431,665
75	100	280S	1SE0 281-2NB80	562,260
90	120	280M	1SE0 284-2NB80	651,250
110	150	315S	1SE0 311-2NC80	783,640
125	170	315M	1SE0 314-2NC80-Z	915,600
132	180	315M	1SE0 314-2NC80®	961,375
160	215	315L	1SE0 318-2NC80	1,055,305
200	270	315L	1SE0 319-2NC80*	1,235,010
250	335	355L	1SE0 356-2NC80	1,439,975
315	425	355L	1SE0 357-2NC80®	1,567,825

4 - Pole 1500 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
<b>240VΔ / 415VY 50Hz</b>				
0.37**	0.5	71	1SE0 073-4NB70	12,425
0.55**	0.75	80	1SE0 080-4NB70	14,130
0.75	1	80	1SE0 083-4NA70	14,365
1.1	1.5	90S	1SE0 090-4NA70	16,905
1.5	2	90L	1SE0 096-4NA70	18,470
<b>415VΔ 50Hz</b>				
2.2	3	100L	1SE0 106-4NA80	24,200
3.7	5	112M	1SE0 113-4NA80	30,955
5.5	7.5	132S	1SE0 130-4NA80	42,650
7.5	10	132M	1SE0 133-4NA80	49,670
11	15	160M	1SE0 163-4NA80	83,620
15	20	160L	1SE0 166-4NA80	99,200
18.5	25	180M	1SE0 183-4NA80	128,665
22	30	180L	1SE0 186-4NA80	142,325
30	40	200L	1SE0 207-4NB80	193,960
37	50	225S	1SE0 221-4NB80	237,815
45	60	225M	1SE0 224-4NB80	294,345
55	75	250M	1SE0 254-4NA80	399,980
75	100	280S	1SE0 281-4NB80	512,545
90	120	280M	1SE0 284-4NB80	594,635
110	150	315S	1SE0 311-4NA80	687,200
125	170	315M	1SE0 314-4NA80-Z	770,690
132	180	315M	1SE0 314-4NA80	809,230
160	215	315L	1SE0 318-4NA80	946,800
200	270	315L	1SE0 319-4NA80®	1,149,415
250	335	355L	1SE0 356-4NB80	1,327,440
315	425	355L	1SE0 357-4NB80	1,522,840

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
<b>240VΔ / 415VY 50Hz</b>				
0.37**	0.5	80	1SE0 080-6NB70	14,990
0.55**	0.75	80	1SE0 083-6NA70	15,275
0.75	1	90S	1SE0 090-6NA70	17,780
1.1	1.5	90L	1SE0 096-6NA70	19,760
1.5	2	100L	1SE0 106-6NB70	24,960
<b>415VΔ 50Hz</b>				
2.2	3	112M	1SE0 113-6NB80	29,740
3.7	5	132S	1SE0 131-6NB80	46,855
5.5	7.5	132M	1SE0 134-6NB80	50,690
7.5	10	160M	1SE0 163-6NB80	82,105
11	15	160L	1SE0 167-6NB80	102,130
15	20	180L	1SE0 186-6NA80	133,380
18.5	25	200L	1SE0 206-6NA80	173,660

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
<b>415VΔ 50Hz</b>				
22	30	200L	1SE0 207-6NA80	188,715
30	40	225M	1SE0 223-6NA80	294,095
37	50	250M	1SE0 254-6NB80	403,190
45	60	280S	1SE0 281-6NA80	505,650
55	75	280M	1SE0 284-6NA80	574,915
75	100	315S	1SE0 311-6NB80	658,735
90	120	315M	1SE0 314-6NB80	826,835
110	150	315L	1SE0 318-6NB80	922,100
125	170	315L	1SE0 319-6NC80-Z	1,027,315
132	180	315L	1SE0 319-6NC80	1,078,680
160	215	355L	1SE0 356-6NB80	1,171,980
200	270	355L	1SE0 357-6NC80	1,339,855
250	335	355L	1SE0 358-6NB80	1,444,035

# Temperature rise limited to 75K, @ Temp. rise limited to 80K & \* Temp rise limited to 90K by resistance method

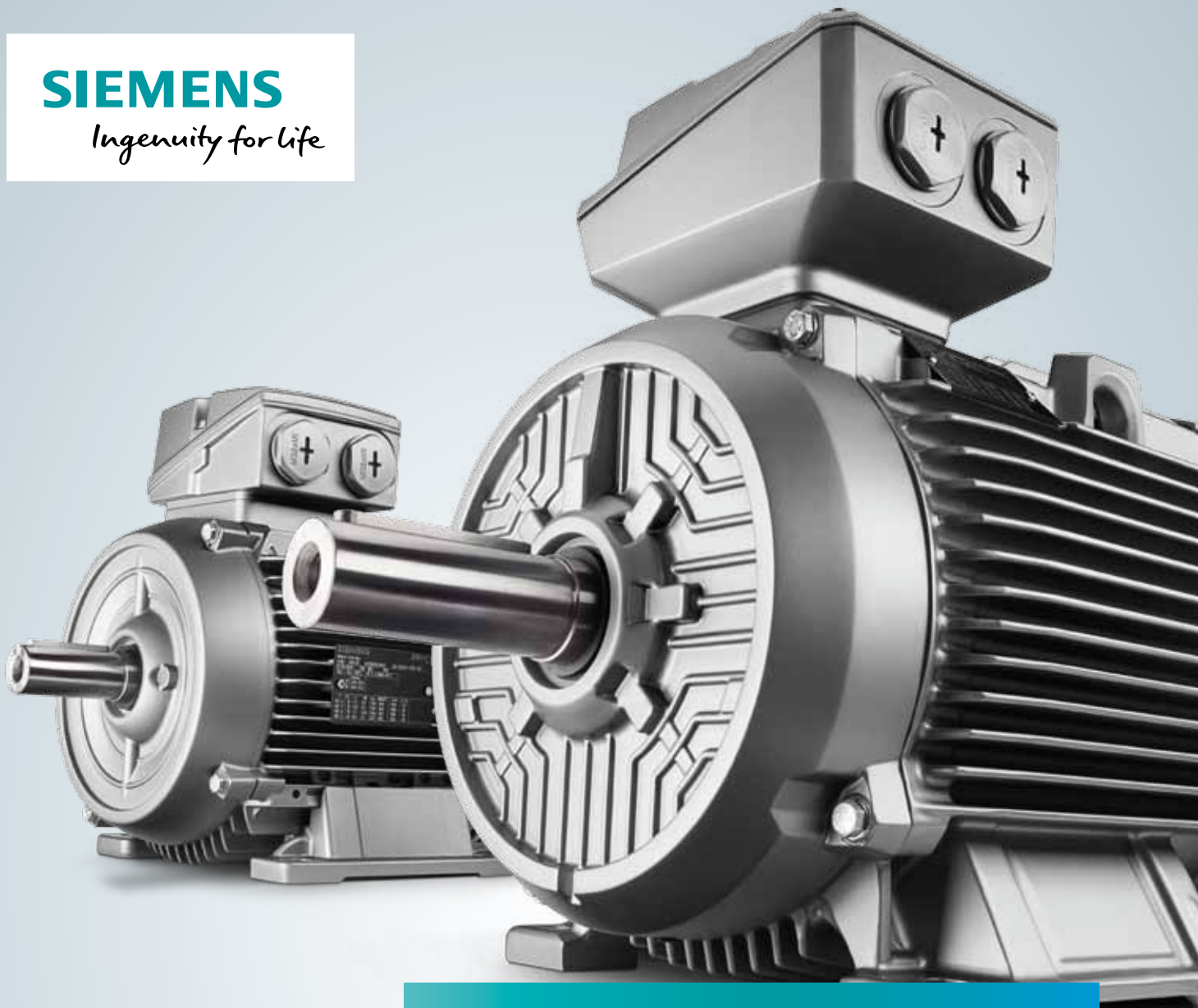
\*\* These motors conform to IE2 efficiency class as per IS 12615 -2011 only

CE will be stamped only if ratings are <0.75kW in 2P,4P & 6P.

## Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34
63-132	0	1	2	4	6	7
160-315M	0	1	-	4	6	-
315L-355	0	8	-	4	6	-

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# 1LA2..N CHAMPION Series Motors - IE3



**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**

2 - Pole 3000 rev/min					
Output		Frame size	Type reference (MLFB)	Unit LP in ₹	
kW	HP				
<b>240VΔ / 415VY 50Hz</b>					
0.37**	0.5	71	1LA2 070-2NC70	13,520	
0.55**	0.75	71	1LA2 073-2NC70	15,195	
0.75	1	80	1LA2 080-2NC70	15,735	
1.1	1.5	90S	1LA2 090-2NA70-Z	20,610	
1.5	2	90S	1LA2 090-2NA70	20,610	
<b>415VΔ 50Hz</b>					
2.2	3	90L	1LA2 096-2NA80	26,375	
3.7	5	132S	1LA2 130-2NA80-Z	50,010	
5.5	7.5	132S	1LA2 130-2NA80	50,010	
7.5	10	132S	1LA2 131-2NA80	54,775	
11	15	160M	1LA2 163-2NA80	95,795	
15	20	160M	1LA2 164-2NA80	110,235	
18.5	25	160L	1LA2 166-2NA80	142,835	
22	30	180M	1LA2 183-2NA80#	154,920	
30	40	200L	1LA2 207-2NB80	230,015	
37	50	200L	1LA2 208-2NA80	280,830	
45	60	225M	1LA2 224-2NA80	361,360	
55	75	250M	1LA2 254-2NA80	Upon Enquiry	
75	100	280S	1LA2 281-2NB80		
90	120	280M	1LA2 284-2NB80		
110	150	315S	1LA2 311-2NB80		
132	180	315M	1LA2 314-2NB80		
160	215	355L	1LA2 356-2NC80-Z		
200	270	355L	1LA2 356-2NC80-Z		
250	335	355L	1LA2 356-2NC80		1,655,975
315	425	355L	1LA2 357-2NC80®		1,803,000

4 - Pole 1500 rev/min					
Output		Frame size	Type reference (MLFB)	Unit LP in ₹	
kW	HP				
<b>240VΔ / 415VY 50Hz</b>					
0.37**	0.5	71	1LA2 073-4NB70	14,295	
0.55**	0.75	80	1LA2 080-4NA70	16,265	
0.75	1	80	1LA2 083-4NA70	16,520	
1.1	1.5	90S	1LA2 090-4NA70	19,445	
1.5	2	90L	1LA2 096-4NA70	21,240	
<b>415VΔ 50Hz</b>					
2.2	3	100L	1LA2 106-4NA80	27,835	
3.7	5	112M	1LA2 113-4NA80	35,590	
5.5	7.5	132S	1LA2 130-4NA80	49,055	
7.5	10	132M	1LA2 133-4NA80	57,110	
11	15	160M	1LA2 163-4NA80	95,780	
15	20	160L	1LA2 166-4NA80	119,045	
18.5	25	180M	1LA2 183-4NA80	154,410	
22	30	180L	1LA2 186-4NA80	156,230	
30	40	200L	1LA2 207-4NA80	220,975	
37	50	225S	1LA2 221-4NA80	273,495	
45	60	225M	1LA2 224-4NA80	323,110	
55	75	250M	1LA2 254-4NA80	Upon Enquiry	
75	100	280S	1LA2 281-4NA80		
90	120	280M	1LA2 284-4NB80		
110	150	315S	1LA2 311-4NA80		
132	180	315M	1LA2 314-4NA80		
160	215	315L	1LA2 318-4NA80		
200	270	315L	1LA2 319-4NA80®		
250	335	355L	1LA2 356-4NB80		1,526,560
315	425	355L	1LA2 357-4NB80		1,751,270

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
<b>240VΔ / 415VY 50Hz</b>				
0.37**	0.5	80	1LA2 080-6NC70	17,235
0.55**	0.75	80	1LA2 083-6NA70	17,565
0.75	1	90S	1LA2 090-6NB70	20,450
1.1	1.5	100L	1LA2 106-6NB70-Z	28,710
1.5	2	100L	1LA2 106-6NB70	28,710
<b>415VΔ 50Hz</b>				
2.2	3	112M	1LA2 113-6NB80	34,200
3.7	5	132S	1LA2 131-6NA80	53,885
5.5	7.5	132M	1LA2 134-6NA80	58,290
7.5	10	160M	1LA2 163-6NA80	94,050
11	15	160L	1LA2 166-6NA80	112,115
15	20	180L	1LA2 186-6NA80	146,415
18.5	25	200L	1LA2 206-6NA80	199,700

6 - Pole 1000 rev/min					
Output		Frame size	Type reference (MLFB)	Unit LP in ₹	
kW	HP				
<b>415VΔ 50Hz</b>					
22	30	200L	1LA2 207-6NA80	217,025	
30	40	225M	1LA2 225-6NA80	322,835	
37	50	250M	1LA2 255-6NA80	Upon Enquiry	
45	60	280S	1LA2 281-6NA80		
55	75	280M	1LA2 284-6NA80		
75	100	315S	1LA2 311-6NA80		
90	120	315M	1LA2 314-6NA80		
110	150	315L	1LA2 318-6NA80		
132	180	315L	1LA2 319-6NA80		
160	215	355L	1LA2 356-6NB80		1,347,780
200	270	355L	1LA2 357-6NC80		1,540,835
250	335	355L	1LA2 358-6NB80		1,660,640

# Temperature rise limited to 75K, @ Temp. rise limited to 80K & \* Temp rise limited to 90K by resistance method

\*\* These motors conform to IE3 efficiency class as per IS 12615 -2011 only

### Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34
63-132	0	1	2	4	6	7
160-315M	0	1	-	4	6	-
315L-355	0	8	-	4	6	-

## Answering your needs of Energy Efficient Motors.

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Based on IEC 60034-30, the Indian standard IS 12615-2011 for energy efficient IE2 / IE3 motors refers to related standard 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.

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



Efficiency determination as per IEC 60034-2-1



Wi-Fi enabled special working area for customers

# CHAMPION Series Motors 8 Pole Motors



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. Reference Standard: IS/IEC:60034-1:2004

1LA0 8 - Pole 750 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
240VΔ / 415VY 50Hz				
0.12	0.12	71	1LA0 070-8YB80	13,040
0.18	0.25	80	1LA0 080-8YB80	14,415
0.25	0.35	80	1LA0 083-8YB80	14,650
0.37	0.5	90S	1LA0 090-8YB80	15,165
0.55	0.75	90L	1LA0 096-8YB80	16,555
0.75	1	100L	1LA0 106-8YB80	19,775
1.1	1.5	100L	1LA0 107-8YB80	23,650
1.5	2	112M	1LA0 113-8YB80	27,385

1LA0 8 - Pole 750 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
2.2	3	132S	1LA0 131-8YB80	36,300
3.7	5	132M	1LA0 134-8YB80	57,100
5.5	7.5	160M	1LA0 164-8YB80	69,345
7.5	10	160L	1LA0 166-8YB80#	88,390
11	15	180L	1LA0 186-8YB80	120,725
15	20	200L	1LA0 207-8YB80	181,715
18.5	25	225S	1LA0 220-8YB80	220,200
22	30	225M	1LA0 223-8YB80	265,540
132	180	355L	1SE0 356-8YB80	1,228,205
160	215	355L	1SE0 357-8YB80	1,389,460
200	270	355L	1SE0 358-8YB80®	1,529,070

# Temperature rise limited to 75K & @ Temp. rise limited to 80K.

Note: Efficiency testing according to IEC:60034-2-1

^ CE mark will be stamped on the nameplate only if the motor conforms to the requirements of CE regulation EC 640/2009 of the European Union

## Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34
63-132	0	1	2	4	6	7
160-225M	0	1	-	4	6	-
355	0	8	-	4	6	-





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- High reliability and uptime
- High efficiency and low operating costs
- Low noise and vibration level
- High power to weight ratio
- Dual cooling system – reliable cooling
- Range 250kW – 1750kW (TEFC Enclosure – IC411 / IC416)

# 1LA8 N-compact Motors



**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. 40°C (Temp rise 90K)**

2 - Pole 3000 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
<b>415VΔ 50Hz</b>			
250	315	1LA8 315-2AC70	1,433,175
315	315	1LA8 317-2AC70	1,716,250
355	355	1LA8 353-2AC70	2,004,185
400	355	1LA8 355-2AC70	2,106,050
500	355	1LA8 357-2AC70	2,310,810
560	400	1LA8 403-2AC70	on Enquiry
630	400	1LA8 405-2AC70	on Enquiry
710*	400	1LA8 407-2AC70	on Enquiry
<b>1LA8 2P motors in frames 355 &amp; 400 will have unidirectional fan for CW rotation as viewed from DE. For CCW direction please explicitly specify in the order.</b>			

4 - Pole 1500 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
<b>415VΔ 50Hz</b>			
250	315	1LA8 315-4AB70	1,275,415
315	315	1LA8 317-4AB70	1,501,155
355	355	1LA8 353-4AB70	1,752,975
400	355	1LA8 355-4AB70	1,934,205
500	355	1LA8 357-4AB70	2,228,410
560	400	1LA8 403-4YB70	on Enquiry
630	400	1LA8 405-4AB70	on Enquiry
710 *	400	1LA8 407-4AB00	on Enquiry
800 *	450	1LA8 453-4AD00	on Enquiry
900 *	450	1LA8 455-4AD00	on Enquiry
1000 *	450	1LA8 457-4AD00	on Enquiry
Upto 1750kW *		on Enquiry	on Enquiry

6 - Pole 1000 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
<b>415VΔ 50Hz</b>			
200	315	1LA8 315-6AB70	1,263,945
250	315	1LA8 317-6AB70	1,362,245
315	355	1LA8 355-6YB70	1,877,820
400	355	1LA8 357-6AB70	2,177,675
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
Upto 1650kW *		on Enquiry	on Enquiry

8 - Pole 750 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
<b>415VΔ 50Hz</b>			
160	315	1LA8 315-8AB70	1,338,970
200	315	1LA8 317-8AB70	1,399,875
250	355	1LA8 355-8YB70	1,878,145
315	355	1LA8 357-8YB70	2,170,990
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
Upto 1150kW *		on Enquiry	on Enquiry

**Note: Applicable Standards - 1) ≤375kW - IS:12615**

**2) >375kW - IS/IEC:60034-1:2004**

\*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 CE regulation EC640/2009 of the European Union





## N Compact Motors for Converter (VFD) Duty Applications

1PQ8 Series - Separately Cooled. Degree of Prot. IP55, Ins Class 'F'. 415V, 50Hz  
Cooling IC 416. Prices for IMB3 (foot mounted) versions. Amb. 40°C (Temp rise 105K)

2 - Pole 3000 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
415VΔ 50Hz			
250	315	1PQ8 315-2PC70	1,632,885
315	315	1PQ8 317-2PC70	1,913,840
355	355	1PQ8 353-2PC70	2,328,415
400	355	1PQ8 355-2PC70	2,430,315
500	355	1PQ8 357-2PC70	2,635,065
560	400	1PQ8 403-2AC70	on Enquiry
630	400	1PQ8 405-2AC70	on Enquiry
710*	400	1PQ8 407-2AC70	on Enquiry

4 - Pole 1500 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
415VΔ 50Hz			
250	315	1PQ8 315-4PB70	1,483,135
315	315	1PQ8 317-4PB70	1,708,885
355	355	1PQ8 353-4PB70	1,955,645
400	355	1PQ8 355-4PB70	2,136,865
500	355	1PQ8 357-4PB70	2,431,055
560	400	1PQ8 403-4YP70	on Enquiry
630	400	1PQ8 405-4PB70	on Enquiry
675	400	1PQ8 407-4PB00	on Enquiry
760 *	450	1PQ8 453-4PD00	on Enquiry
850 *	450	1PQ8 455-4PD00	on Enquiry
950 *	450	1PQ8 457-4PD00	on Enquiry
Upto 1750kW *		on Enquiry	

6 - Pole 1000 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
415VΔ 50Hz			
200	315	1PQ8 315-6PB70	1,401,590
250	315	1PQ8 317-6PB70	1,495,225
315	355	1PQ8 355-6YP70	1,981,410
400	355	1PQ8 357-6PB70	2,266,985
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
Upto 1650kW *		on Enquiry	

8 - Pole 750 rev/min			
Output kW	Frame size	Type reference (MLFB)	Unit LP in ₹
415VΔ 50Hz			
160	315	1PQ8 315-8PB70	1,546,695
200	315	1PQ8 317-8PB70	1,607,625
250	355	1PQ8 355-8YP70	2,080,815
315	355	1PQ8 357-8PB70	2,373,655
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
Upto 1150kW *		on Enquiry	

**Note: Applicable Standards - IS/IEC:60034-1:2004**

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.

# CE mark will be stamped on the nameplate only if the motor conforms to the requirements of CE regulation EC640/2009 of the European Union



# Converter Duty Motors for Constant Torque Applications

1PQ0 Series - SEPARATELY COOLED. Degree of Prot. IP55, Ins Class 'F'. Ambient 50°C, 415V, 50Hz, Class F rise through VFD operation, Cooling- IC 416, Prices for IMB3 (foot mounted) versions. Ref. Standard: IS/IEC:60034-1:2004

2 - Pole 3000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
11	15	160M	1PQ0 164-2YB80	121,175
15	20	160M	1PQ0 165-2YC80	132,530
18.5	25	160L	1PQ0 166-2YB80	167,010
22	30	180M	1PQ0 183-2YA80	185,340
30	40	200L	1PQ0 207-2YB80	259,220
37	50	200L	1PQ0 208-2YB80	314,795
45	60	225M	1PQ0 223-2YB80	393,665
55	75	250M	1PQ0 254-2YB80	496,165
75	100	280S	1PQ0 281-2YB80	643,840
90	120	280M	1PQ0 284-2YB80	734,130
110	150	315S	1PQ0 311-2YC80	946,155
132	180	315M	1PQ0 314-2YC80	1,145,810
160	215	315L	1PQ0 318-2YC80	1,247,295
200	270	315L	1PQ0 319-2YC80	1,458,250
250	335	355L	1PQ0 356-2YC80	1,631,150
315	425	355L	1PQ0 357-2YC80	1,799,705

4 - Pole 1500 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
11	15	160M	1PQ0 163-4YA80	119,935
15	20	160L	1PQ0 166-4YA80	138,825
18.5	25	180M	1PQ0 183-4YA80	179,790
22	30	180L	1PQ0 186-4YA80	188,650
30	40	200L	1PQ0 207-4YA80	253,665
37	50	225S	1PQ0 221-4YB80	309,970
45	60	225M	1PQ0 224-4YB80	363,360
55	75	250M	1PQ0 254-4YA80	467,155
75	100	280S	1PQ0 281-4YB80	595,580
90	120	280M	1PQ0 284-4YB80	679,105
110	150	315S	1PQ0 311-4YA80	839,100
132	180	315M	1PQ0 314-4YA80	970,680
160	215	315L	1PQ0 318-4YA80	1,076,040
200	270	315L	1PQ0 319-4YA80	1,362,750
250	335	355L	1PQ0 356-4YB80	1,457,790
315	425	355L	1PQ0 357-4YB80	1,715,845

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
7.5	10	160M	1PQ0 163-6YC80	122,375
11	15	160L	1PQ0 166-6YC80	141,695
15	20	180L	1PQ0 186-6YA80	186,065
18.5	25	200L	1PQ0 206-6YA80	243,450
22	30	200L	1PQ0 207-6YA80	259,270
30	40	225M	1PQ0 223-6YA80	372,470
37	50	250M	1PQ0 254-6YA80	468,500
45	60	280S	1PQ0 281-6YA80	597,965
55	75	280M	1PQ0 284-6YA80	665,835
75	100	315S	1PQ0 311-6YB80	805,430
90	120	315M	1PQ0 314-6YB80	993,975
110	150	315L	1PQ0 318-6YA80	1,098,910
132	180	315L	1PQ0 319-6YC00	1,266,245
160	215	355L	1PQ0 356-6YB80	1,381,495
200	270	355L	1PQ0 357-6YC80	1,516,965
250	335	355L	1PQ0 358-6YB80	1,634,930

8 - Pole 750 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
7.5	10	160L	1PQ0 166-8YB80	143,705
11	15	180L	1PQ0 186-8YC80	188,880
15	20	200L	1PQ0 207-8YB80	263,250
18.5	25	225S	1PQ0 220-8YB80	323,200
22	30	225M	1PQ0 223-8YA80	378,770
30	40	250M	1PQ0 254-8YB80	476,715
37	50	280S	1PQ0 281-8YA80	607,395
45	60	280M	1PQ0 284-8YA80	692,520
55	75	315S	1PQ0 311-8YB80	820,140
75	100	315M	1PQ0 314-8YB80	1,012,040
90	120	315L	1PQ0 318-8YB80	1,127,240
110	150	315L	1PQ0 319-8YA80	1,182,735
132	180	355L	1PQ0 356-8YB80	1,455,880
160	215	355L	1PQ0 357-8YB80	1,606,980
200	270	355L	1PQ0 358-8YB80	1,680,100

MRP 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.

690V Y Design available against requirement. Pls. Contact your nearest Sales Office

**Note - Efficiency testing according to IEC:60034-2-1**

# CE mark will be stamped on the nameplate only if the motor conforms to the requirements of CE regulation EC640/2009 of the European Union

# 1LA0 CHAMPION Series 2, 4 & 6 Pole

1LA0 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. Reference Standard: IS/IEC:60034-1:2004

2 - Pole 3000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
240VΔ / 415VY 50Hz				
0.18	0.25	63	1LA0 060-2LA80	9,580
0.25	0.35	63	1LA0 063-2LA80	9,855
0.37	0.5	71	1LA0 070-2LA80	10,475
0.55	0.75	71	1LA0 073-2LA80	11,575
0.75	1	80	1LA0 080-2LA80	12,535
1.1	1.5	80	1LA0 083-2LA80	13,725
1.5	2	90S	1LA0 090-2LA80	15,825
415VΔ 50Hz				
2.2	3	90L	1LA0 096-2LA80	20,340
3.7	5	100L	1LA0 107-2LA80	23,825
5.5	7.5	112M	1LA0 114-2LA80	36,510
7.5	10	132S	1LA0 131-2LA80	40,285
9.3	12.5	132M	1LA0 133-2LA80	62,730
11	15	160M	1LA0 164-2LC80	70,700
15	20	160M	1LA0 165-2LC80#	82,845
18.5	25	160L	1LA0 166-2LC80#	107,420
22	30	180M	1LA0 183-2LA80#	119,745
30	40	200L	1LA0 207-2LB80	189,475
37	50	200L	1LA0 208-2LB80#	226,895
45	60	225M	1LA0 223-2LB80	278,100

4 - Pole 1500 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
240VΔ / 415VY 50Hz				
0.12	0.16	63	1LA0 060-4LA80	9,875
0.18	0.25	63	1LA0 063-4LA80	10,495
0.25	0.35	71	1LA0 070-4LA80	10,695
0.37	0.5	71	1LA0 073-4LA80	11,070
0.55	0.75	80	1LA0 080-4LA80	12,900
0.75	1	80	1LA0 083-4LA80	13,255
1.1	1.5	90S	1LA0 090-4LA80	14,980
1.5	2	90L	1LA0 096-4LA80	16,235
415VΔ 50Hz				
2.2	3	100L	1LA0 106-4LA80	20,495
3	4	100L	1LA0 107-4LA80	21,505
3.7	5	112M	1LA0 113-4LA80	26,180
5.5	7.5	132S	1LA0 130-4LA80	36,070
7.5	10	132M	1LA0 133-4LA80	42,110
11	15	160M	1LA0 163-4LA80	67,235
15	20	160L	1LA0 166-4LA80	83,855
18.5	25	180M	1LA0 183-4LA80	112,995
22	30	180L	1LA0 186-4LA80	126,005
30	40	200L	1LA0 207-4LA80	181,495
37	50	225S	1LA0 221-4LA80	222,355
45	60	225M	1LA0 224-4LA80	254,030

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
240VΔ / 415VY 50Hz				
0.18	0.25	71	1LA0 070-6LA80	11,865
0.25	0.35	71	1LA0 073-6LA80	12,120
0.37	0.5	80	1LA0 080-6LA80	13,620
0.55	0.75	80	1LA0 083-6LA80	14,000
0.75	1	90S	1LA0 090-6LA80	15,795
1.1	1.5	90L	1LA0 096-6LA80	17,370
1.5	2	100L	1LA0 106-6LA80	21,180

6 - Pole 1000 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
2.2	3	112M	1LA0 113-6LA80	25,370
3.7	5	132S	1LA0 131-6LA80	38,700
5.5	7.5	132M	1LA0 134-6LA80	43,025
7.5	10	160M	1LA0 163-6LB80	69,490
11	15	160L	1LA0 166-6LB80	86,840
15	20	180L	1LA0 186-6LA80	118,395
18.5	25	200L	1LA0 206-6LA80	164,785
22	30	200L	1LA0 207-6LA80	175,465
30	40	225M	1LA0 223-6LA80#	260,380

# Temperature rise limited to 75K & @ Temp. rise limited to 95K.

Note 2 - Motors from Frames 63-112M are also available in Aluminium Housing on request. Please replace last but two code A/B with L while ordering.

## Last digit of order code to change based on construction type

Construction	IMB3	IMB5/V1	IMB14	IMV1 with Canopy	IMB35	IMB34
63-132	0	1	2	4	6	7
160-315M	0	1	-	4	6	-





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## Energy saving motors for textile industry

Motors – Type 1PT0/1SE0/1LA2

- For long and short ringframes
- Low units/kg power consumption
- High uptime
- Low maintenance costs
- High reliability
- Range: 1PT0: 30 - 55 kW, 1SE0: 0.37 - 315kW,  
1SE0 / 1LA2: 3.7kW 4 Pole

Please contact us for payback calculations.

For more details mail to: [motors.in@siemens.com](mailto:motors.in@siemens.com)

[www.siemens.co.in](http://www.siemens.co.in)

**1PT0 Series. Degree of Prot. IP55, Ins Class 'F'. High EFF for Textile Ring Frames, 415V ±10%, 50Hz ± 5%, combined ±10%, Ambient 50°C, Method of cooling IC417.**

**1LA0 Series Motor for Ginning operation, Degree of Prot. IP55, Ins Class 'F', 415V ±10%, 50Hz ± 5%, combined ±10%, Ambient 50°C.**

4 - Pole 1500 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
30	40	200L	1PT0 206-4YA80	On enquiry
34	45	200L	1PT0 207-4YA80	On enquiry
40	53	200L	1PT0 208-4YA80	On enquiry
45	60	200L	1PT0 208-4YA80-Z*	On enquiry
55	75	225L	1PT0 228-4YA80-Z	On enquiry

4 - Pole 1500 rev/min				
Output		Frame size	Type reference (MLFB)	Unit LP in ₹
kW	HP			
415VΔ 50Hz				
3.7	5	132S	1SE0 130-4NA80-Z	50,010
Also available in 1LA2 Motor type				

\* 45kW rated Motor, will have class H insulation utilised to class F limits.

Reference Standard: IS/IEC:60034-1:2004

Since 1PT0 motors do not have IC411 as the method of cooling, these cannot be classified as IE2/IE3 as per IS:12615-2011. Therefore these motors will not be stamped IE2/IE3 in spite of their high efficiencies.





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## A benchmark for performance

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

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

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# Price Add-ons

## Non-standard features / Accessories - For 1SE0..N, 1LA2..N, 1LA0 [1PQ0] & 1LA8 [1PQ8]

Sr. No.	Description	Z-Code	Remarks	Note	Frames 63-132	Frames 160-225	Frames 250-315	Frame 355	Frames 1LA8/1PQ8	Extra as % of LP or absolute [whichever is lesser] +	
										%	₹
<b>Non-standard Winding</b>											
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'			5	✓	✓	-	-	-	12.5%	
					-	-	✓	✓	✓	7.5%	
4	Anticlockwise direction	K98	Viewed from drive end		-	✓	✓	✓	✓	Nil	Nil
5	Direction indicating Arrow	N08			-	✓	✓	✓	✓	Nil	Nil
<b>Winding Protection</b>											
6	3 PTC - Trip	A11	Class B	@	-	✓	✓	✓	✓	-	2,100
					-	-	-	-	-	-	
7	3 + 3 PTC. 3 for Alarm, 3 for Trip	A12	Class B	@	-	✓	✓	✓	✓	-	4,200
8	6 PTC - Trip	A13	Class B	@,8	-	✓	✓	✓	✓	-	4,200
9	3 PTC - Trip	A14	Class F	@,8	-	✓	✓	✓	✓	-	2,100
10	3 + 3 PTC. 3 for Alarm, 3 for Trip	A15	Class F	@,8	-	✓	✓	✓	✓	-	4,200
11	6 PTC - Trip	A16	Class F	@,8	-	✓	✓	✓	✓	-	4,200
12	RTDs - 3 Nos. PT 100 Simplex	A60	Frame 250 and above	@	-	-	✓	✓	✓	-	7,500
	RTDs - 6 Nos. PT 100 Simplex	A61			-	-	✓	✓	✓	-	15,000
13	Epoxy gel coat on winding overhang	C46	Class B rise		-	✓	✓	✓	-	2%	-
		G0W			✓	-	-	-	-	2%	-
<b>Non-standard Constructions</b>											
14	Construction IMB35				✓					3%	-
					1	-	✓	✓	✓	✓	5%
15	Construction IMB5		Except Frame 315L		✓	-	-	-	-	3%	-
						-	✓	✓	-	-	5%
16	Construction IM V1 - without canopy		For 1LA8/ 1PQ8 possible only up to 400 Frame		✓	-	-	-	-	3%	-
						-	✓	✓	✓	✓	5%
17	Construction IM V1 - with canopy			2	-	✓	✓	✓	✓	7%	-
						✓	-	-	-	-	5%
18	Construction IM B6	M1A			✓	✓	✓	-	-	-	NIL
19	Construction IM B7	M1B			✓	✓	✓	-	-	-	NIL
20	Construction IM B8	M1C			✓	✓	✓	-	-	-	NIL
21	Construction IM V5 - without canopy	M1D			✓	✓	✓	-	-	-	NIL
22	Construction IM V6	M1E			✓	✓	✓	-	-	-	NIL
23	Construction IM V5 - with canopy	M1F		2	-	✓	✓	-	-	2%	-
24	Construction IM V3	M1G	Except Frame 315L		✓	✓	✓	-	-	5%	-
25	Construction IMB14				✓	-	-	-	-	5%	-
26	Construction IMB34				✓	-	-	-	-	5%	-

### Notes:

- Dimension 'C' not as per IS:1231 for 1LA2..N Motors in 160 Frame
- Not available for 1PQ series motors
- Certificate shall be provided on additional costs. Please contact sales office for cost.
- Subsequent change of location from LHS to RHS not possible in 1LA8, 1PQ8 and for Framesize 90 contact Sales office.
- Not for 1LA8/1PQ8 Motors
- For 315L and 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.
- Inverter grade insulation is included in list prices for 1PQ series of motors and 1LA8 series of motors.
- Prices of ACH, 3x PTCs for Alarm and 3x PTCs for Trip are included in the list price for 1LA8 and 1PQ8 Motors
- Please contact sales office for non standard features required for Aluminium body motors.
- Not Possible in 225 frame 2 Pole in 1SE0..N, 1LA2..N & in 160 frame 6 Pole in 1SE0..N
- \* 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**
  - Wherever percentage is mentioned, add to MRP and then offer discount.
  - 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..N, 1LA2..N, 1LA0 [1PQ0] & 1LA8 [1PQ8]												
Sr. No.	Description	Z-Code	Remarks	Note	Frames 63-132	Frames 160-225	Frames 250-315	Frame 355	Frames 1LA8/1PQ8	Extra as % of LP or absolute [whichever is lesser] +		
										%	₹	
<b>Terminal Box</b>												
27	T. Box on RHS with adaptor piece	K09	For 1LA0, 1LA2, 1SE0 & 1PQ0		-	✓	✓	✓	-	5% for frames 160-180	Nil	
28	T. Box on LHS with adaptor piece	K10	For 1LA0, 1LA2, 1SE0 & 1PQ0		-	✓	✓	✓	-	5% for frames 160-180	Nil	
29	T. Box on RHS without adaptor piece	K09	For 100 - 132M and 1LA8 / 1PQ8 only	4	100-132 frame	-	-	-	✓	7% for 100-132 frame and NIL for 1LA8/1PQ8		
30	T. Box on LHS without adaptor piece	K10	For 100 - 132M and 1LA8 / 1PQ8 only	4	100-132 frame	-	-	-	✓	7% for 100-132 frame and NIL for 1LA8/1PQ9		
31	Reducers				-	✓	✓	✓	-	-	300	
32	Fixing of Cable Glands		To be supplied by Sales after approval from Factory		✓	✓	✓	✓	-	-	on Enquiry	
33	Flying Leads	K58	Lead length of 3m (approx.)		✓	✓	✓	✓	On enquiry	5%	-	
34	T. box turned 90 deg.	K84	Cable entry from NDE		✓	✓	✓	✓	✓	Nil	Nil	
35	T. box turned 180 deg.	K85			✓	✓	✓	✓	✓	Nil	Nil	
36	Larger T. Box (one size)	N07	Frame Size:160-180		-	✓	-	-	-	-	2,000	
			Frame Size:200-225		-	✓	-	-	-	-	2,500	
			Frame Size:250 only		-	-	✓	-	-	-	-	3,000
			355 Frame and 1LA8/1PQ8						✓	✓		on Enquiry
<b>Shaft extensions and related modifications</b>												
37	Standard Double Shaft Extension	K16		2	✓	✓	✓	✓	-	5%	-	
38	Non-std. cylindrical Extension	Y55		*	✓	✓	✓	✓	✓	5%	-	
39	Non-std. double Shaft Extension	Y56		*,2	✓	✓	✓	✓	✓	10%	-	
40	Tapered shaft extension				✓	✓	✓	✓	✓		on enquiry	
41	Labyrinth seal	K17	Frames 160-250		-	✓	✓	-	-	-	1,200	
			Frames 280-450		-	-	✓	✓	✓	-	2,400	
	Oil tight shaft	K17			✓	✓	-	-	-	5%		
<b>Bearings</b>												
42	NU bearing at DE	K20	From Frame 160 to 180	10	-	✓	-	-	-		1,800	
			From Frame 200 to 250	10	-	✓	✓	-	-		2,800	
			From Frame 280 to 355		-	-	✓	✓	-	5%	12,000	
43	BTDs - 2 Nos. Simplex	A72	Frames 280-355 & 1LA8/1PQ8		-	-	✓	✓	✓	-	7,000	
44	Provision of threading for fixing Shock Pulse Monitoring [SPM] Probe for vibration measurement		For frames 180 and above		-	✓	✓	✓	✓	2%	-	

## Notes:

- Dimension 'C' not as per IS:1231 for 1LA2..N Motors in 160 Frame
- Not available for 1PQ series motors
- Certificate shall be provided on additional costs. Please contact sales office for cost.
- Subsequent change of location from LHS to RHS not possible in 1LA8, 1PQ8 and for Framesize 90 contact Sales office.
- Not for 1LA8/1PQ8 Motors
- For 315L and 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.
- Inverter grade insulation is included in list prices for 1PQ series of motors and 1LA8 series of motors.
- Prices of ACH, 3x PTCs for Alarm and 3x PTCs for Trip are included in the list price for 1LA8 and 1PQ8 Motors
- Please contact sales office for non standard features required for Aluminium body motors.
- Not Possible in 225 frame 2 Pole in 1SE0..N, 1LA2..N & in 160 frame 6 Pole in 1SE0..N
- \* 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**
  - Wherever percentage is mentioned, add to MRP and then offer discount.
  - Where absolute values are mentioned, same to be directly added to the nett price (No discounts applicable on absolute values).



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Each time you rise we  
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- Motors with high safety factor
- DC Brakes for faster response
- External brake for easy maintenance
- Environment friendly Brakes
- Range: 63 - 225 Frames

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# Price Add-ons

## Non-standard features / Accessories - For 1SE0..N, 1LA2..N, 1LA0 [1PQ0] & 1LA8 [1PQ8]

Sr. No.	Description	Z-Code	Remarks	Note	Frames 63-132	Frames 160-225	Frames 250-315	Frame 355	Frames 1LA8/1PQ8	Extra as % of LP or absolute [whichever is lesser] +		
										%	₹	
<b>Painting</b>												
45	Epoxy base paint	K26	Shade 631 as per IS:5		-	✓	✓	✓	✓	3%	-	
		EP6			✓	-	-	-	-	7%	-	
46	Epoxy base paint-other shade	K27			-	✓	✓	✓	✓	10%	-	
		EPN			✓	-	-	-	-	10%	-	
47	Normal paint other shade	Y53			-	✓	✓	✓	✓	3%	-	
		NPN			✓	-	-	-	-	7%	-	
48	Only Red-oxide coating	K24			✓	✓	✓	✓	✓	-	No price reduction	
<b>NS Fan and Fan Cowl</b>												
49	Metallic Fan (for 1LA0/1SE0/1LA2 series 250-355 frame 2P motors - CI Fan is standard) all other motors have plastic fan by default	K35	Where Plastic Fan is Std.	2	-	✓	✓	✓	-	-	1,500	
		CI	Frame 63-132		✓	-	-	-	-	7%	-	
		K35			6	-	-	-	✓	-	7,000	
50	Fan-cowl with canopy	N19			-	✓	✓	✓	✓	2%	-	
		FCC			✓	-	-	-	-	7%	-	
51	Clean Flow Fan Cowl (without screen & with canopy)				✓	✓	✓	✓		4%		
<b>Ingress Protection</b>												
52	Type of Protection IP 56	K52		*,3	10%	5%	5%	5%	5%		7,500	
	Type of Protection IP 65	K50		*,3	15%	10%	10%	10%	On enquiry		15,000	
<b>Other Miscellaneous Features</b>												
53	Brake Assembly 190V DC std. For non- std voltage, consider additional 5% on standard (G26) option	G26	For Frame 63		✓		-	-	-		4,600	
			For Frame 71		✓							5,000
			For Frame 80		✓							7,500
			For Frame 90		✓							8,000
			For Frame 100		✓							9,500
			For Frame 112		✓							10,000
			For Frame 132		✓							15,900
			For Frame 160					✓				24,500
			For Frame 180					✓				27,250
			For Frame 200					✓				33,000
	For Frame 225					✓				37,000		
54	S3/S4 Duty Motors	CDM			✓	-	-	-	-	2%		
						-	✓	✓	✓	✓	-	Nil
55	Anti-condensation heaters 220 - 240V, 1Ph	K45	For Frames 112 - 132	@	✓	-	-	-	-	-	1,000	
			For Frames 160 - 225	@	-	✓	-	-	-	-	2,200	
			For Frames 250 - 355	@	-	-	✓	✓	-	-	3,000	
56	Vibration Severity Grade R	K01	As per [IS:12075]	*	-	-	-	-	-	-	On enquiry	
57	Increased Flange accuracy	K04	As per [IS:2223]	*	-	-	-	-	-	-	On enquiry	
58	Auxiliary data plate	N09	Specify punching details			✓	✓	✓	✓	-	Nil	
	Auxiliary data plate	Y82	Specify punching details		✓					5%	-	

### Notes:

- Dimension 'C' not as per IS:1231 for 1LA2..N Motors in 160 Frame
- Not available for 1PQ series motors
- Certificate shall be provided on additional costs. Please contact sales office for cost.
- Subsequent change of location from LHS to RHS not possible in 1LA8, 1PQ8 and for Framesize 90 contact Sales office.
- Not for 1LA8/1PQ8 Motors
- For 315L and 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.
- Inverter grade insulation is included in list prices for 1PQ series of motors and 1LA8 series of motors.
- Prices of ACH, 3x PTCs for Alarm and 3x PTCs for Trip are included in the list price for 1LA8 and 1PQ8 Motors
- Please contact sales office for non standard features required for Aluminium body motors.
- Not Possible in 225 frame 2 Pole in 1SE0..N, 1LA2..N & in 160 frame 6 Pole in 1SE0..N
- \* 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**
  - Wherever percentage is mentioned, add to MRP and then offer discount.
  - 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..N, 1LA2..N, 1LA0 [1PQ0] & 1LA8 [1PQ8]

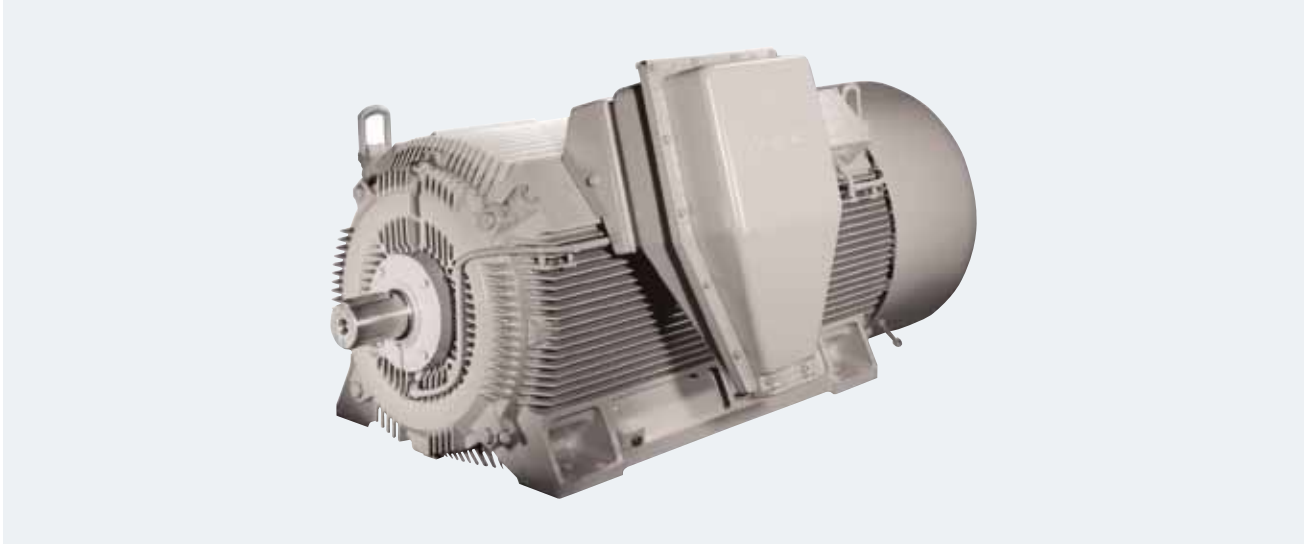
Sr. No.	Description	Z-Code	Remarks	Note	Frames 63-132	Frames 160-225	Frames 250-315	Frame 355	Frames 1LA8/1PQ8	Extra as % of LP or absolute [whichever is lesser] +	
										%	₹
59	Sea Worthy Packing		Frame 160 and above			✓	✓	✓	On enquiry	7%	-
<b>Converter Fed Motors</b>											
60	Inverter grade winding treatment (Voltages < 500V) IGT = Inverter Grade Treatment VPI = Vacuum Pressure Impregnation	IGT	Frames 63-180	7	✓	✓				5%	-
			Frames 200-225	7		✓			5%	-	
			Frames 200-225	7	-	✓	-	-	✓	10%	-
			For frames 250-315	7	-	-	✓	-	✓	5%	-
			For frame 355 and 1LA8	7	-	-	-	✓	✓	Nil	-
	Inverter grade winding for Voltages >500V		For frames 250-315		-	-	✓	-	-	-	25,000
		For frame 355 and 1LA8		-	-	-	✓	✓	-	On enquiry	
61	Insulated Bearing at NDE	L27	1LA0/1PQ0/1SE0 Frames 280 - 355		-	-	✓	✓	-	-	37,000
			1LA8 Frames 315 - 355 [355 Frame 4-8P]		-	-	-	✓	✓	-	42,000
			1LA8 Frame 355, 400 - 2Pole		-	-	-	✓	-	-	64,500
			1LA8 Frames 400		-	-	-	✓	-	-	44,000
62	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%	
			ITD 40 encoder mounting for Frame 63-132			✓					5%
63	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
			ITD 40 encoder for Frame 63-132			✓					
<b>Testing Charges</b>											
64	Witnessing of Routine Test as per IS:325 (IS:15999 wherever applicable)		Frames 63 - 112		✓	-	-	-	-	-	2,500
			Frames 132 - 225								3,500
			Frames 250 - 355		-	-	✓	✓	✓	-	7,000
			Frames 400 - 560		-	-	-	-	✓		25,000
65	Type test as per IS:325 (IS:15999 wherever applicable)		Frames 63 - 132		✓	-	-	-	-	-	7,500
			Frames 160 - 225		-	✓	-	-	-	-	15,000
			Frames 250 - 355	5	-	-	✓	✓	✓	-	25,000
			For 1LA8/1PQ8 315 - 400						-	✓	40,000
			For 1LA8/1PQ8 450 - 560	*					-	✓	Check for testing procedure and price

### Notes:

- Dimension 'C' not as per IS:1231 for 1LA2..N Motors in 160 Frame
- Not available for 1PQ series motors
- Certificate shall be provided on additional costs. Please contact sales office for cost.
- Subsequent change of location from LHS to RHS not possible in 1LA8, 1PQ8 and for Framesize 90 contact Sales office.
- Not for 1LA8/1PQ8 Motors
- For 315L and 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.
- Inverter grade insulation is included in list prices for 1PQ series of motors and 1LA8 series of motors.
- Prices of ACH, 3x PTCs for Alarm and 3x PTCs for Trip are included in the list price for 1LA8 and 1PQ8 Motors
- Please contact sales office for non standard features required for Aluminium body motors.
- Not Possible in 225 frame 2 Pole in 1SE0..N, 1LA2..N & in 160 frame 6 Pole in 1SE0..N
- \* 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**
  - Wherever percentage is mentioned, add to MRP and then offer discount.
  - Where absolute values are mentioned, same to be directly added to the nett price (No discounts applicable on absolute values).

# Medium Voltage Motors

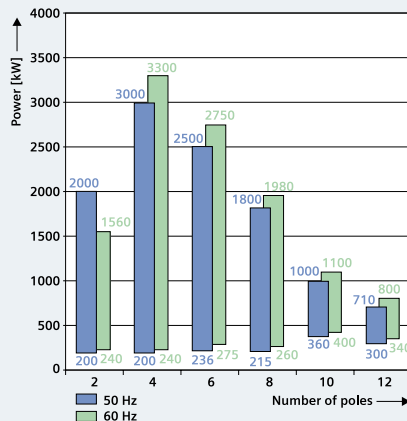
## TEFC – H-Compact 1LA4



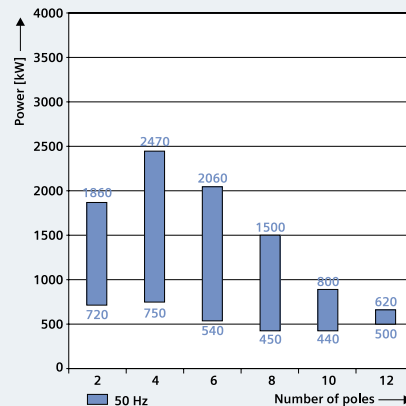
### Output Range

Power range for IEC / IS motors

3.3 to 6.6 kV; 50 and 60 Hz



9 to 11 kV; 50 Hz



### Standard Specifications

- Enclosure : Cast Iron, Totally Enclosed Fan Cooled (TEFC)
- Operating Voltage : 690V – 11,000V
- Type of Construction : Horizontal (IMB3), Vertical (V1). B3/B5 on request
- Frame Size : 355mm to 630mm
- Standard : IEC
- Cooling : IC411 / IC416
- Class of protection : IP55 / IP56
- Type of Starting : Direct On Line (DOL) & Converter (VSD) Fed Operation
- Terminal Box : Standard IEC Terminal Box (PSTB as an option)
- Accessories : 6 Pt100 RTD for winding  
1 Pt100 RTD for each Bearing  
SPM mounting point and grease nipples on both bearings  
Grounding bolts on frame & inside and outside of TB Lifting lugs / Provision for Dowel pins, Stainless Steel Rating plate, Jacking Screws

Customer can choose from a wide range of accessories to customize H-compact motors to conform to his requirements

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