

EARTHING TERMINALS :

All motors are provided with 4 earthing terminals, two in the terminal box and one on each foot.

CONVERTER OPERATION :

1LAO motors can be suitably designed for use with converters (variable voltage, variable frequency drives).

RE-RATING FACTORS :

The re-rating factors applicable under different conditions are as below :

• Altitude of Location

Altitude above Mean Sea Level in Metres	1000	1500	2000	2500	3000	3500	4000
Permissible Output as % of Rated Value	100	97	94	90	86	82	77

• Variation in supply voltage & frequency

Voltage Variation %	Frequency Variation %	Combined Voltage & Frequency Variation %	Permissible Output as % of Rated Value
± 6	± 3	± 9	100
± 10	± 5	± 10	95
± 12.5	± 5	± 12.5	90
± 15	± 5	± 15	85

• Ambient temperature / temperature rise

Maximum Ambient Temperature °C	Restriction on Temp. Rise (Resistance Method) °C	Permissible Output as % of Rated Value
< 30	—	107
30-40	—	100
45	75	96
50	70	92
55	65	87

BEARING SYSTEM:

Frames upto 225M have pre-lubricated bearings as a standard feature but regreasing facility can be provided on request. Frames 250 and above are equipped with regreasable bearings as a standard feature.

• Bearing Data

Frame Size	Motor Type 1LAO	Poles	Bearing Type			
			Horizontal Construction		Vertical Construction	
			Drive End	Non-Drive End	Drive End	Non-Drive End
160M,L	16	2...8	6209 C3	6209 C3	6209 C3	6209 C3
180M,L	18	2...8	6210 C3	6210 C3	6210 C3	6210 C3
200 L	20	2...8	6212 C3	6212 C3	6212 C3	6212 C3
225 S,M	22	2...8	6213 C3	6213 C3	6213 C3	6213 C3
250 M	25	2...8	6215 C3	6215 C3	6215 C3	6215 C3
280 S,M	28	2	6216 C3	6216 C3	6216 C3	6216 C3
		4...8	6317 C3	6317 C3	6317 C3	6317 C3
315 S,M	310, 313	2	6217 C3	6217 C3	6217 C3	6217 C3
		4...8	6319 C3	6319 C3	6319 C3	6319 C3
315 L	316, 317	2	6217 C3	6217 C3	6217 C3	7217 B
		4...8	6319 C3	6319 C3	6319 C3	6319 C3
355 L	35	2	NU 217	NU 217+ 6217 C3	NU 217	7217 B
		4...8	6322 C3	6322 C3	6322 C3	6322 C3