


Country Fact Sheet Motors

India



Regional Characteristics											
Voltage	3 ~ 400V ± 10% 1 ~ 230V ± 10%										
Frequency	50 Hz										
Approval Mark	Indian Standards Institution (ISI)										
Standard	IS 15999 refers to IEC 60034										
Scope	Electric motors are required to comply with the applicable Indian safety standards and mandatory registration before they are imported to, distributed, or sold in India.										
Marking	 ISI Mark and Registration number										
Energy Efficiency	Bureau of Energy Efficiency (BEE)										
Regional Standard	IS 12615 (2018)										
Regulation	Gazette of India No. 3144/2018										
Mandatory Efficiency Class	IE2										
Scope	<ul style="list-style-type: none"> - Rated output power from 0.12 up to 1000 kW - Rated voltage from 50 up to 1000 V - Rated frequency 50 and 60 Hz - 2-, 4-, 6- and 8-pole 										
Exemptions	<ul style="list-style-type: none"> - Ex-motors - Motors with integrated variable speed drive as integral part of the motor - Motors for heavy environmental conditions like ambient temperature above +60°C or below -20°C, installation altitude above 4000m - Pole-changeable motors - Motors that share common components with the driven unit and cannot operate as a motor if separated from it 										
Marking	<ul style="list-style-type: none"> - BEE Label - Registration number 										
Solutions from Lenze											
Three-phase AC motors	<table border="0"> <tr> <td>0.12 ... 0.55 kW</td> <td>m550-H IE2-high efficiency motors</td> </tr> <tr> <td>0.75 ... 22.0 kW</td> <td>m550-P IE3-premium efficiency motors</td> </tr> <tr> <td>30.0 ... 55.0 kW</td> <td>m540-P IE3-premium efficiency motors</td> </tr> <tr> <td>0.55 ... 22.0 kW</td> <td>MF inverter-optimized AC motors</td> </tr> <tr> <td>0.47 ... 1.36 kW</td> <td>m300 Lenze Smart Motors</td> </tr> </table>	0.12 ... 0.55 kW	m550-H IE2-high efficiency motors	0.75 ... 22.0 kW	m550-P IE3-premium efficiency motors	30.0 ... 55.0 kW	m540-P IE3-premium efficiency motors	0.55 ... 22.0 kW	MF inverter-optimized AC motors	0.47 ... 1.36 kW	m300 Lenze Smart Motors
0.12 ... 0.55 kW	m550-H IE2-high efficiency motors										
0.75 ... 22.0 kW	m550-P IE3-premium efficiency motors										
30.0 ... 55.0 kW	m540-P IE3-premium efficiency motors										
0.55 ... 22.0 kW	MF inverter-optimized AC motors										
0.47 ... 1.36 kW	m300 Lenze Smart Motors										
Asynchronous servo motors	<table border="0"> <tr> <td>0.075 ... 0.6 kW</td> <td>SDSGA asynchronous servo motors</td> </tr> <tr> <td>0.80 ... 53.8 kW</td> <td>MCA asynchronous servo motors</td> </tr> <tr> <td>10.6 ... 60.2 kW</td> <td>MQA asynchronous servo motors</td> </tr> </table>	0.075 ... 0.6 kW	SDSGA asynchronous servo motors	0.80 ... 53.8 kW	MCA asynchronous servo motors	10.6 ... 60.2 kW	MQA asynchronous servo motors				
0.075 ... 0.6 kW	SDSGA asynchronous servo motors										
0.80 ... 53.8 kW	MCA asynchronous servo motors										
10.6 ... 60.2 kW	MQA asynchronous servo motors										
Synchronous servo motor	<table border="0"> <tr> <td>2.00 ... 9.20 kW</td> <td>m850 synchronous servo motors</td> </tr> <tr> <td>0.25 ... 15.8 kW</td> <td>MCS synchronous servo motors</td> </tr> </table>	2.00 ... 9.20 kW	m850 synchronous servo motors	0.25 ... 15.8 kW	MCS synchronous servo motors						
2.00 ... 9.20 kW	m850 synchronous servo motors										
0.25 ... 15.8 kW	MCS synchronous servo motors										

