


# Country Fact Sheet Motors

## China



Regional Characteristics											
Voltage	3 ~ 380V ± 10% 1 ~ 220V ± 10%										
Frequency	50 Hz										
Approval Mark	China Compulsory Certification										
Standard	GB 12350 GB 14711										
Regulation	CNCA-C04-01:2014										
Scope	<ul style="list-style-type: none"> <li>- Rated voltage from 36 V up to 1000 V</li> <li>- All kinds of AC asynchronous motors and AC synchronous motors with maximum continuous rating not exceeding 1.1 kW @1500 rpm</li> <li>- Not applicable for Ex-motors, servomotors and multi-speed motors with a rating exceeding the above applicable range</li> </ul>										
Marking											
Energy Efficiency	China Energy Label										
Regional Standard	GB18613-2020 GB/T 1032 GB 755										
Regulation	CEL 007-2021										
Mandatory Efficiency Class	Grade 3										
Scope	<ul style="list-style-type: none"> <li>- Rated output power from (0.12 kW) up to (375 kW)</li> <li>- Rated voltage 380 V</li> <li>- Rated frequency 50 Hz</li> <li>- 2-, 4-, 6- and 8-pole</li> <li>- For continuous duty operation</li> </ul>										
Exemptions	<ul style="list-style-type: none"> <li>- Intermittent duty like S3 or S6 (duty factor &lt;80%)</li> <li>- Exclusively suitable for inverter operation</li> <li>- Ex-motors</li> <li>- Brake Motors (The brake is inside the motor housing)</li> <li>- Motors for heavy environmental conditions like ambient temperature above +60°C or below -30°C, installation altitude above 4000m</li> <li>- Pole-changeable motors</li> <li>- With Integral fans and blower motors</li> </ul>										
Marking	<ul style="list-style-type: none"> <li>- China Energy Label (CEL) from 0.75 kW up to 375 kW</li> <li>- Nominal efficiency (<math>\eta</math>) at 100 % load</li> </ul>										
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
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