

# Country Fact Sheet Motors

 Brazil



## Regional Characteristics

**Voltage** 3 ~ 415V ± 10%  
3 ~ 208V ± 10%  
1 ~ 220V ± 10%

**Frequency** 60 Hz

## Energy Efficiency INMETRO

**Regional Standard** INMETRO NBR 17094-1

**Regulation** Portaria no. 1\_2017-06-29

**Mandatory Efficiency Class** IR3

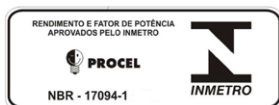
**Scope**

- Rated output power from 0.12 up to 370 kW
- Rated voltage up to 600V
- Rated frequency 50 and 60 Hz
- 2-, 4-, 6- and 8-pole
- For continuous duty operation

**Exemptions**

- Intermittent duty like S3 or S6 (duty factor <80%)
- Exclusively suitable for inverter operation
- Ex-motors
- Pole-changeable motors

## Marking



- INMETRO Label

## Solutions from Lenze

**Three-phase AC motors**

|                  |  |
|------------------|--|
| 0.12 ... 0.55 kW | <a href="#">m550-H</a> IE2-high efficiency motors    |
| 0.75 ... 22.0 kW | <a href="#">m550-P</a> IE3-premium efficiency motors |
| 30.0 ... 55.0 kW | <a href="#">m540-P</a> IE3-premium efficiency motors |
| 0.55 ... 22.0 kW | <a href="#">MF</a> inverter-optimized AC motors      |
| 0.47 ... 1.36 kW | <a href="#">m300</a> Lenze Smart Motors              |

**Asynchronous servo motors**

|                  |   |
|------------------|---|
| 0.075 ... 0.6 kW | <a href="#">SDSGA</a> asynchronous servo motors |
| 0.80 ... 53.8 kW | <a href="#">MCA</a> asynchronous servo motors   |
| 10.6 ... 60.2 kW | <a href="#">MOA</a> asynchronous servo motors   |

**Synchronous servo motors**

|                  |   |
|------------------|---|
| 2.00 ... 9.20 kW | <a href="#">m850</a> synchronous servo motors |
| 0.25 ... 15.8 kW | <a href="#">MCS</a> synchronous servo motors  |