

Country Fact Sheet Motors

United Kingdom



Regional Characteristics

Voltage 3 ~ 400V ± 10%
1 ~ 230V ± 10%

Frequency 50 Hz

Approval Mark UK Conformity Assessed (UKCA)

Standard UKCA EN 60034

Regulation Electrical Equipment Regulations 2016 (S.I. 2016/1101)
Energy Information (Amendment) (EU Exit) Regulations 2019
RoHS Regulations 2012 (S.I. 2012/3032)

Scope The UKCA marking is a UK product marking that is used for goods being placed on the market in Great Britain (England, Wales and Scotland). It covers goods which previously required the CE marking.

Marking **UK** From January 1st 2023: UKCA Declaration
CA From January 1st 2024: UKCA Mark

Energy Efficiency Ecodesign Directive

Regional Standard Directive 2009/125/EC

Regulation Energy Information (Amendment) (EU Exit) Regulations 2019

Mandatory Efficiency Class IE2 from 0.12 kW
IE3 from 0.75 kW

Scope

- 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
- For continuous duty operation

Exemptions

- Intermittent duty like S3 or S6 (duty factor <80%)
- Exclusively suitable for inverter operation
- 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 -30°C, installation altitude above 4000m
- Pole-changeable motors
- Motors placed on the market before 1st July 2029 as substitutes for identical motors integrated in products placed on the market before 1st July 2021, and specifically marketed as such
- Motors that share common components with the driven unit and cannot operate as a motor if separated from it
- Motors specifically designed and specified to operate wholly immersed in a liquid

Marking

- IE-Class
- Nominal efficiency (η) at 50%, 75% and 100 % load

Solutions from Lenze

Three-phase AC 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

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 motors

2.00 ... 9.20 kW	m850 synchronous servo motors
0.25 ... 15.8 kW	MCS synchronous servo motors