

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 | UK CA 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 | From January 1, 2025: UKCA Declaration and marking on enclosed documents From January 1, 2028: UKCA Mark on the product | | | | | | | | | | |
| 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 | <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 - For continuous duty operation | | | | | | | | | | |
| Exemptions | <ul style="list-style-type: none"> - Intermittent duty like S3 or S6 (duty factor <80%) - Exclusively suitable for inverter operation - 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 | <ul style="list-style-type: none"> - IE-Class - Nominal efficiency (η) at 50%, 75% and 100 % load | | | | | | | | | | |
| 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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