


Country Fact Sheet Motors

Turkey



Regional Characteristics											
Voltage	3 ~ 400V ± 10% 1 ~ 230V ± 10%										
Frequency	50 Hz										
Approval Mark	CE Conformity										
Standard	EN IEC 60034										
Regulation	Low Voltage Directive 2014/35/EU ErP Directive 2009/125/EG RoHS Directive 2011/65/EU										
Scope	All machines and electronic devices which are affected by any EU Directive.										
Marking											
Energy Efficiency	Ecodesign Directive										
Regional Standard	Directive 2009/125/EC										
Regulation	SGM:2021/16										
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"> - Motors with intermittent duty like S3 (duty factor < 80%) 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 - 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 2022, 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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