

Low-voltage IEC standard motors



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Features

- Energy-efficient and non-polluting
- these motors are designed for operation on a frequency converter
- designed according to EN 60034 (IEC 60072)
- mounting dimensions and allocation of output according to DIN 42673, 42677, or progressive
- rugged low-vibration gray cast iron design
- type of protection IP 55, higher types of protection up to and including IP 65 available upon request
- thermal class 155 (F) including thermal reserve, 180 (H) available as an option
- terminal box optionally arranged on top, on the right or left
- many modifications available
- can optionally be fitted with a transponder

Technical details

Frame sizes	56 – 315
Power output range	0.06 – 132 kW
Efficiency classes according to IEC 60034-30	With due regard to VO(EG) 640/2009, these motors are available in the following design configurations: <ul style="list-style-type: none">• without efficiency classification,• Standard Efficiency IE1,• High Efficiency IE2, and• Premium Efficiency IE3
Speeds	3,000; 1,500; 1,000; 750; 600; 500 r.p.m., lower speeds are available upon request, pole-changeable designs are available for many speed combinations, such as with Dahlander winding 4-2, 8-4, 12-6-pole or 6-4, 8-2, 8-6 and 12-4-pole with two separate windings, for example, with three speeds such as 8-4-2 or 8-6-4 resp., or with four speeds 12-8-6-4-pole

Types of protection	IP 55, optionally IP 56, IP 65 according to EN 60034-5 (IEC 60034-5)
Design type	IM B3, IM B35, IM B5, IM B14, IM B34 and derived designs according to EN 60034-7
Types of cooling	According to EN 60034-6 (IEC 60034-6) <ul style="list-style-type: none">• self-ventilated IC, 411• forced ventilated, IC 416• unventilated, IC 410
Coolant temperature / altitude of site	As a standard feature, -20°C through +40 °C, optionally -40°C through +60 °C, altitude of site 1,000 m above sea level
Transponder	Optional, RFID System iID@2000 (13.56 MHz based on ISO 15693)

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