

Product Parameters

Item		Specification			
Frame size		180	200	225	250
Rated voltage range		380 VAC (380 VAC to 400 VAC/440 VAC to 480 VAC)			
Rated power range		18.5 kW to 315 kW			
Bearing	Drive end	3000 r/min	6314/C3	6314/C3	6316/C3
		750 r/min to 1500 r/min	6314/C3	6314/C3	6316/C3
	Non-drive end	3000 r/min	6314/C3	6314/C3	6316/C3
		750 r/min to 1500 r/min	6314/C3	6314/C3	6316/C3
Bearing sealing		Oil sealing			
Connection	Drive end	Oil sealing			
	Non-drive end	Oil sealing			
	Cable entry	2 x M63 +1 x M20	2 x M63 +1 x M20	2 x M63 +1 x M20	2 x M63 +1 x M20
Terminal screw	6 x M12				
	6 x M12				
Cable conduit		Cable gland as standard			
Mounting method		B3 as standard; B35, V1, and B5 as optional, drip cover needed for drive end that is installed vertically downwards			
Cooling method		IC411, IC416 as optional			
Environmental conditions	Allowable ambient temperature	-20°C to +40°C (IEC 60034-1)			
	Allowable ambient humidity	-20 °C < T ≤ +20 °C: 100 % 20 °C < T ≤ 30 °C: 95 % 30 °C < T ≤ 40 °C: 55 %			
	Allowable altitude	≤ 1000 m (IEC 60034-1)			
Insulation class		Insulation class F (Designed as temperature rise class B)			
IP rating		IP55 as standard, higher IP rating as optional			
Energy efficiency grade		IE5			
Duty cycle		S1			
Motor color		Medium gray			
Corrosion-proof class		C3M			
Nameplate		Stainless steel			
Frame and Endshield		Cast iron			
Greasing		Lubricated bearings, oil inlet screw M10x1,0			
Grease type		Mobil POLYREX EM 103			
Fan		PP			
Fan cover		Steel			
Stator winding		Material: copper Structure: Vplus-Pin hairpin design process Winding protection: PTC as standard, one for use and one for backup			
Key		Type-C			
Drain hole		Standard drain hole, which is closed when delivery			

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INOVANCE

MV33-INT Motor

General Industry Low-voltage Permanent Magnet Synchronous Motor



- Vplus-Pin Hairpin winding design
- Ultra-high energy efficiency, meet IE5, can be expanded to "IE6"
- More compact design, compared to normal IE5 PM motor, scale down 1-2 frame size
- Power from 18.5kW to 315kW with 4 frame sizes (180/200/225/250)
- Modular design, with available options

CE

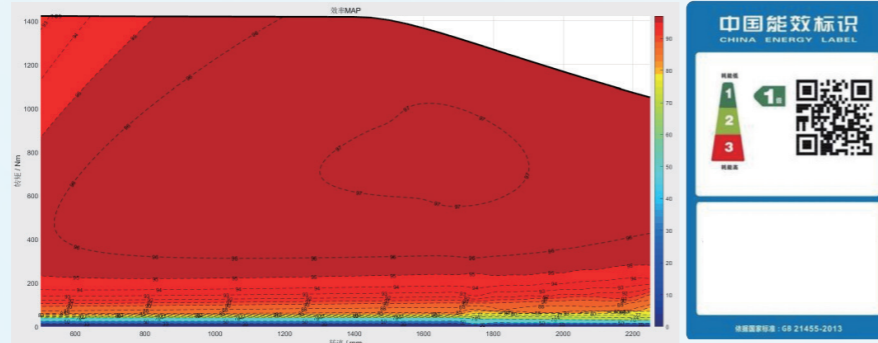
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Product Highlights

High energy efficiency

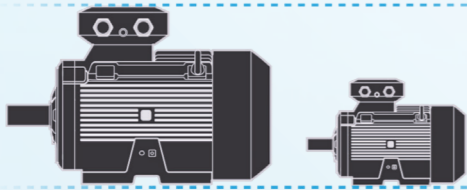
- ▶ The whole series meets IE5, can be expanded to "IE6" "Double 90%" design (Actual efficiency is higher than 90%, covering 90% of operation conditions)



Compact design

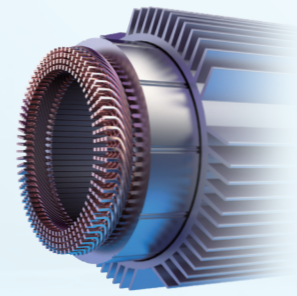
- ▶ Decrease the volume about 25% to 40% (Compared with conventional IE3 asynchronous motors)

Regular size reduced by
↓25% to 40%



High reliability

- ▶ Same bearing configuration as similar asynchronous motors, and with the design of anti-shaft current for motors which power is more than 110kW
- ▶ Insulation class H design, and apply insulation class H (180° C) with the use of high temperature resistance materials
- ▶ Low rotor temperature rise design (following strict testing standards)



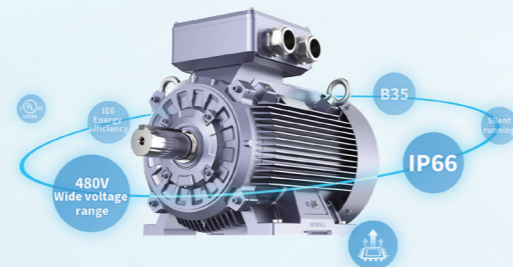
Optimized transmission system (when used together with INOVANCE drive)

- ▶ Support no-debugging and accurate control
- ▶ Enables higher system efficiency
- ▶ Supports noise optimization



Modular design, with hundreds of options available

- ▶ Support installation of multiple types of terminal boxes, forced ventilation, and bearing types
- ▶ Enables extension to IP66, C5, and ultra-low temperature resistance; applicable to all-weather industrial scenarios



Product Overview

The MV33 series motor is developed in response to the global "dual-carbon" goal to contribute to energy conservation and drive system innovation. It is designed to comply with IEC international standards and GB standards in China. The motor can be widely used in industrial fields including fans, water pumps, vessels, ports, mining, construction materials, chemicals, rubber and plastic, cables, paper making, textile, and food and beverage.

Industrial Application Benefits

- ▶ Ultra-high energy efficiency
- ▶ Modular design suitable for multiple industrial scenarios
- ▶ Compact design, innovate transmission system
- ▶ High reliability for safe application

