

High Voltage Process Performance Motor - A standard motor for the serial OEM

What is the standard M3BM motor?

The market for high voltage motors in IEC frame sizes 315 to 450 is very demanding. Customers are looking for high quality motors for pump, fan and compressor applications that are not only reliable but also cost-efficient.

The M3BM motor is standardized, cost-efficient product targeted at this market. It combines ABB's high voltage motor design expertise with the proven low voltage cast iron platform used in M3BP motors. It is part of ABB's Process Performance Motor family.



What are the main features?

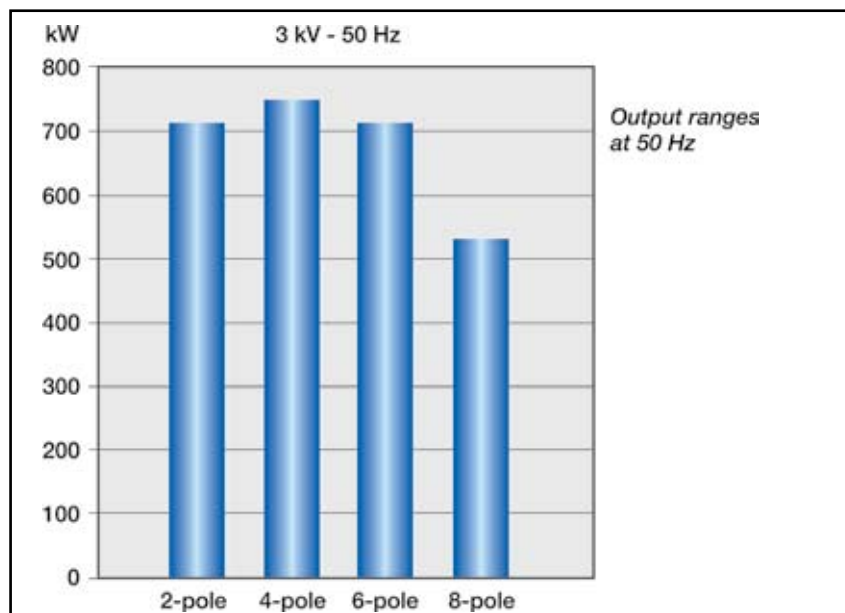
- Frame sizes IEC 315 to 450
NEMA 506AT to 728
- Power 110 to 750 kW at 50 Hz
150 to 950 HP (SF 1.15)
at 60 Hz
- Voltage IEC 3 to 10 kV
NEMA 4 kV (star),
2.3 kV (delta)
- Number of poles 2 to 8

accessories. Protection classes IP 65 and IP 56 are available. Standard features include labyrinth seal, SPM-nipples and grease valves. The design has low noise levels and low vibration.

M3BM motor has form wound windings with Micadur[®] Compact Industry Insulation System, insulation class F (155 °C).

The motor has a rib cooled, cast iron frame (IP 55 / IC 411 / TEFC). It is a standard motor with limited optional features and

The M3BM motor's starting performance is optimized for pump, fan and compressor applications. The starting current is maintained at low level (max 6.5 x I_n).





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Product Notes

Which protection types are available?

The M3BM motor complies with both IEC and NEMA standards, and non-sparking and dust ignition proof protection types are available for hazardous areas. Both types are ATEX certified.

Non-sparking version:

EN/ATEX	Ex nA II T3 (category 3G)
IEC	Ex nA II T3
NEMA	Class I Division 2 Group ABCD T3 or Class I Zone 2 Ex nA II T3

Dust ignition proof version:

EN/ATEX	category 2D and 3D
IEC	for zones 21 and 22
NEMA	Class II Division 2 Group EFG or Class III.

What are the benefits for the customers?

The M3BM motor has been especially designed to meet the requirements of OEMs. Its excellent starting characteristics make it ideal for pumps, fans and compressors.

Where can customers find information about the motor?

Technical tables, dimension drawings, and information about electrical performance, mechanical construction and features, as well as standard and optional features and accessories, is available in printed catalogues and on the Internet.

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