ABB Ability™
Smart Sensor for motors

Condition monitoring solution enabling predictive maintenance for motors. By monitoring the condition and performance of their motors - vibration, bearing condition, misalignment, temperature - users can avoid unexpected downtime, optimize efficiency and improve safety.

- For induction motors, frame sizes 56 – 450 (IEC)
- Available as option
- Can be easily retrofitted to existing motors (ABB and non-ABB motors)

Contact

For more information and contact details:
abb.com/motors&generators
new.abb.com/motors-generators/channel-partners

Visit page: Motors&Generators
Visit page: Channel Partners

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IEC Low voltage motors

Wide range of low voltage motors – suitable for all industries and applications, fulfilling all international and national efficiency regulations.

<table>
<thead>
<tr>
<th>General performance motors</th>
<th>Process performance motors</th>
<th>IEC Food Safe stainless steel motors</th>
<th>Motors for explosive atmospheres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast iron</td>
<td>Cast iron</td>
<td>M3BL</td>
<td>Flameproof Ex d/Ex de</td>
</tr>
<tr>
<td>Cast iron</td>
<td>Cast iron</td>
<td>M3EL, M3CA</td>
<td>Certified for maximum safety, for environments with gas explosion risk.</td>
</tr>
<tr>
<td>Aluminum</td>
<td>M3AA</td>
<td>M3KA</td>
<td>Ex d IIB or Ex de</td>
</tr>
<tr>
<td>Aluminum</td>
<td>M3AA</td>
<td>M3PB</td>
<td>Certified for maximum safety, for environments with dust explosion risk.</td>
</tr>
</tbody>
</table>

**Synchronous reluctance motors**

SynRM IE5 motors save energy, with up to 50 percent lower energy losses, drop-in replacement for induction motors.

- M3EL, M3CA up to IE5
- M3CA up to IE3
- M3PB up to IE5

**Uncompromised hygienic solution, easy to clean.**

- M3BP up to IE3
- M3PP

Certified for maximum safety, for environments with gas explosion risk.

- M3GP, M3AA up to IE5
- M3GP, M3AA up to IE3

**Increased safety Ex ec**

Certified for maximum safety, for environments with dust explosion risk.

- M3GP, M3AA
- M3GP, M3AA

**Starters**

- DOL, VSD
- DOL, VSD
- DOL, VSD
- VSD
- VSD
- VSD

**Voltage**

- 230 – 690 V
- 230 – 690 V
- 50 Hz, 60 Hz
- IP 54, higher on request
- IP 54

**Poles**

- 2 – 6
- 2 – 12
- 2 – 12
- 2 – 12
- 2 – 12

**Frequency**

- 50 Hz, 60 Hz
- 50 Hz, 60 Hz
- 50 Hz, 60 Hz
- 50 Hz, 60 Hz
- 50 Hz, 60 Hz

**Protection type**

- Marine
- Marine
- Marine
- Marine
- Marine

**Applications where explosion hazards may exist due to flammable gases, flammable and combustible liquid-vapors.**

- Suggested applications and industries.