
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)



ABB Access – unlocking your drives, motors, and PLCs

With ABB Access, you can unlock all aspects of your drives, motors or PLCs, from one central location. Simply scan the QR code on the ABB product to get started.

ABB Access, helps you easily find up-to-date product online data. It also provides easy access to documentation and manuals. If you happen to experience issues with your ABB product, this can be fastly and easily reported online to reach expert support from ABB.

Want to check ABB Access in action, but you don't have ABB motor at hand? No problem! Simply scan the example QR code and get familiarized with ABB Access.



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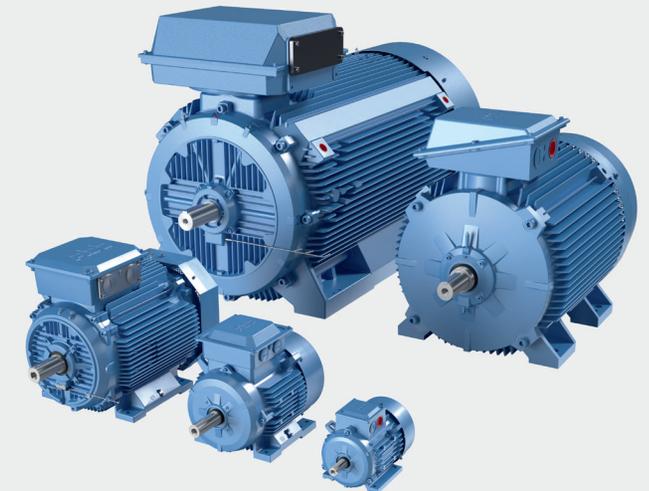


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IEC Low voltage motors Global product offering



IEC Low voltage motors

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

	General performance motors	Process performance motors			Motors for explosive atmospheres			
	Cast iron	Cast iron	Aluminum	Synchronous reluctance motors	Flameproof Ex db / Ex db eb	Increased safety Ex ec	Dust ignition proof Ex t	
								
	Best suited for applications where simplicity and off-the-shelf availability is of highest importance.	Fully flexible motors for any customer need for reliability, availability and highest efficiency.	Fully flexible motors for any customer need for reliability, availability and efficiency, light weight and easy to clean.	SynRM IE5 motors save energy, with up to 50 percent lower energy losses, drop-in replacement for induction motors.	Certified for maximum safety, for environments with gas explosion risk.	Certified for maximum safety, for environments with gas explosion risk.	Certified for maximum safety, for environments with dust explosion risk.	
Product type	M2BAX	M3BP	M3AA	M3AL, M3BL	M3JP, M3KP	M3GP, M3AA	M3GP, M3AA	Product type
Efficiency classes	IE1, IE2, IE3	IE2, IE3, IE4	IE2, IE3	up to IE5	IE2, IE3	IE2, IE3	IE2, IE3	Efficiency classes
IEC Frame sizes	71 – 355	71 – 450	56 – 280	IE5 range: 132 – 315 High output range: 90 – 315	80 – 450	M3GP 71 – 450 M3AA 71 – 280	M3GP 71 – 450 M3AA 71 – 280	IEC Frame sizes
Power range	0.25 – 355 kW	0.25 – 1000 kW	0.12 – 90 kW	1.1 – 350 kW	0.55 – 950kW	0.25 – 1000 kW	0.25 – 1000 kW	Power range
Poles	2 – 6	2 – 12	2 – 8	1000 – 3000 r/min	Sizes 80-132: 2-8 Sizes 160-450: 2-20	2-8 (contact manufacturer for information of greater than 8 pole motors)	2-8 (contact manufacturer for information of greater than 8 pole motors)	Poles
Voltage	230 – 690 V	230 – 690 V	230 – 690 V	–	230 – 690 V	230 – 690 V	230 – 690 V	Voltage
Frequency	50 Hz, 60 Hz	50 Hz, 60 Hz	50 Hz, 60 Hz	–	50 Hz, 60 Hz	50 Hz, 60 Hz	50 Hz, 60 Hz	Frequency
IP Class	up to IP 56	up to IP 66	up to IP 66	IP 55, higher on request	up to IP 66	up to IP 66	up to IP 66	IP Class
Cooling	IC411, IC416	IC410, IC411, IC416, IC418	IC410, IC411, IC416, IC418	IC411, IC416, IC418	Sizes 80-450: IC411 Sizes 160-450: IC416, IC418	IC411, IC416	M3GP motors: IC411, IC416 M3AA motors: IC411, IC418	Cooling
Starting	DOL, VSD	DOL, VSD	DOL, VSD	VSD	DOL, VSD	DOL, VSD	DOL, VSD	Starting
MEPS	EU, CN, IN, TR, AU	EU, UKCA, CN, AU, BR, KR, USA, CA, SG, SA, IN, TR	EU, UKCA, CN, USA, CA, AU, TR, SA	–	EU, CN, AU, BR	EU, CN, AU, BR	EU, CN, AU	MEPS
Certification	Marine	Marine	Marine	–	ATEX, IECEx, CCC, CU TR Ex, EQM UAE, IA, INMETRO, PESO, UKEx, marine	ATEX, IECEx, CCC, CU TR Ex, UL, EQM UAE, IA, INMETRO, PESO, UKEx, marine	ATEX, IECEx, CCC, CU TR Ex, UL, EQM UAE, IA, INMETRO, PESO, UKEx, marine M3AA motors: ATEX, IECEx,	Certification
Protection type	–	–	–	–	Ex db IIB or C T4 Gb Ex db eb IIB or C T4 Gb	Ex ec IIC T3 Gc	For zone 21: EPL Db, T 125°C, IP65 For zone 22: EPL Dc, T 125°C, IP55 or IP65 Dust groups IIIB and IIIC	Protection type
Suggested applications and industries.	Pumps, fans, conveyors, food and beverage machinery, compressors, general machinery.	Pumps, fans, compressors, crushes, mills, centrifugal machines, presses, grinders and general process applications.	Pumps, fans, compressors, centrifugal machines, Food and beverage applications – target easy cleaning and general process applications.	Pumps, fans, compressors, extruders, conveyors, mixers.	Applications where explosion hazards may exist due to flammable gases, flammable and combustible liquid-vapors.	Applications where explosion hazards may exist due to flammable gases, flammable and combustible liquid-vapors.	Applications where explosion hazards may exist due to flammable dust.	Suggested applications and industries.