

For all your electric motor needs



A network of 12 independent motor specialists have pooled their resources to offer national and local customers access to:

Products

- ABB low voltage electric motors up to 500 kW including a range of special motors available ex stock within the UK

Applications

- Know-how of all rotating equipment including pumps, fans or transmission assets
- Extensive technical knowledge and back-up of all electric motor applications

Expertise

- Up-to-the-minute expertise on the latest legislation, regulations and directives affecting rotating equipment

Services

- Well equipped repair and maintenance facilities for all brands of motors
- Common service standards throughout the UK
- Common pricing
- Access to ABB's motor design and technical support

Partners

- Support from world leading automation and electrical company, ABB
- Personnel trained by ABB; products warranted by ABB; partners approved by ABB



- 1 APDS, Bristol
Tel: 0117 982 2049
- 2 Beta Power Engineering, Cheshire
Tel: 0161 432 9995
- 3 Campbell Electric Motors Ltd, Ireland
Tel: +353(0) 1 4628 333
- 4 Central Group
Tel: 0151 546 6000
- 5 CovElec (Leics), Leicester
Tel: 0116 269 8111
- 6 EDC (Scotland) Ltd, Scotland
Tel: 0141 812 3222
- 7 EMR Silverthorn, Middlesex
Tel: 020 8903 6590
- 8 Francis Chambers & Co, Rotherham
Tel: 01709 522 175
- 9 H.G. Rewinds Ltd, Staffordshire
Tel: 01782 262 525
- 10 Halcyon, Leeds
Tel: 0113 236 1509
- 11 Heasell Electromechanical Services Ltd, Herts.
Tel: 0871 222 7896
- 12 JJ Loughran, Cookstown
County Tyrone, Northern Ireland
Tel: 028 8676 2295
- 13 MKE Engineering, South East
Tel: 01795 438 436
- 14 Quantum Controls, North of England
Tel: 01661 835 566

We call this network the ABB Motor Service Partners

Order and service hotline: **0870 243 8811**



ABB Motor Service Partners promise to stay with the customer throughout each stage of ownership of the motor and as such it has devised a range of services within each of the phases shown above and described below.

Pre-purchase

ABB Motor Service Partners recognise the importance of understanding the features and benefits of an electric motor before a customer actually makes a purchase. As such it provides a range of helpful services that guides the customer to the right product for their application.

Energy Efficiency Assessment

Based on an Energy Efficiency Assessment, ABB Motor Service Partners can reduce your wasted

energy costs by replacing old motors with energy efficient alternatives and, where practical, will rewind “high efficiency” motors to the highest standard, following AEMT guidelines to minimise efficiency losses.

New Motor Assessment

ABB Motor Service Partners can help specify the motor for any application.

Motor Stock Assessment

ABB Motor Service Partners undertake a full site survey and identify the critical items to be stocked to minimise downtime, while other stock can be eliminated from your inventory.





Order and delivery

Having made the right motor selection, the customer needs reassurance that it is stocked and can be delivered precisely when needed. ABB Motor Service Partners have access to an impressive global and local stock network with on-line ordering and tracking in place to ensure timely deliveries.

Stock management

Based on a Motor Stock Assessment, ABB Motor Service Partners hold stocks and can manage your spares, ensuring replacement motors are always available within a specified time.

Installation and commissioning

While many customers have the resource to undertake their own installation and commissioning, others prefer ABB Motor Service Partners to help out at various stages. Whatever stage the customer needs assistance, the partners have a range of services to help.

With its extensive know-how, decades of experience, competent personnel and state-of-the-art tools and equipment, the ABB Motor Service Partner network is in the best position to perform installation and commissioning of its motors.

Services include:

- Dynamic and in-situ site balancing
 - Up to 7.5 ton capacity
- Condition monitoring and vibration analysis
 - Specialist in SPM vibration analysis

Operation and maintenance

While the reliability of ABB's electric motors are unsurpassed, a good preventive maintenance plan will maximise the up-time of the motors. From site surveys through to preventive maintenance and reconditioning of motors, ABB Motor Service Partners have all the options covered to keep your process or plant operational.

National maintenance scheme

Based on a Planned Maintenance Assessment (see below), ABB Motor Service Partners can maintain your equipment across one or more sites nationally. All makes of motor can be serviced due to a comprehensive stock of spares.

Preventive maintenance

Preventive maintenance enables the motor to continue performing profitably and reliably as well as extending its life. Regular maintenance of motors ensures maximum availability and optimised lifecycle costs.

Maintenance schedules and programs help the end-user forecast and budget the maintenance of all the motors installed within a plant.

Planned Maintenance Assessment

ABB Motor Service Partners can assess the service requirement for a plant to prevent unplanned stoppages. This involves condition monitoring using SPM (Shock Pulse Measurement) analysis, establishing bearing running conditions, greasing regimes, failure point, along with other tasks.

Repairs & spares

Should repair of motors be needed, ABB Motor Service Partners offer on-site or off-site repair facilities, fully backed by the largest spare holding of any motor network.

ABB Motor Service Partners provide 24/7/365 service that will ensure each repair is collected and returned in the shortest possible time. The machine is only returned to the customer when it has been thoroughly tested and is working to at least its original specification. With Class F insulation as a minimum standard, many rewinds are returned to the customer with enhanced service life.

ABB Motors Service Partners have considerable experience in the repair and overhaul of hazardous area machines, particularly in gas, chemical, mining and marine industries.

The standards covering hazardous area motors have risen dramatically in recent years and the key to maintaining these standards is regular examination and inspection. Using the skills of its workforce, ABB Motors Service Partners can use a wide range of methods from vibration analysis and thermal imaging to visual inspections.

ABB Motors Service Partners will carry out the inspection procedures from the interim visual inspection to the more extensive planned maintenance routine every 12 to 18 months.

To help manage your assets and get a better return on your investment, the partners have created a series of motor management programs (see pages 6 and 7) that deliver:

- reduced unplanned downtime
- increased productivity
- reduced energy costs
- longer plant life



Technical support

ABB Motor Service Partners provides the UK's largest motor services team, with some 100 field service engineers located throughout the country.

The ABB Motor Service Partner network is the extended arm of ABB in your area and your point of contact for round-the-clock support from the world's largest motor manufacturer.

With extensive customer support personnel throughout the UK, ABB Motor Service Partners is clearly serious about the service it brings to UK industry. Apart from the service and support given to its motors products, the partners offer extensive support for gearboxes and pumps.

Throughout the lifecycle of the motor, ABB Motor Service Partners provide:

- Documentation
- Instructions and service bulletins
- Training including:
 - Tailored to requirements
 - ATEX training
 - Operational maintenance training
- Warranty support
- Workshop services and site services
- Global presence
- Feedback to manufacturing units
- Service contracts
 - Customised service contracts
 - Maintenance contracts
- Extended warranty

Products

ABB Motor Service Partners stock the UK's **largest** range of electric motors to suit virtually all applications. Throughout the design, development and build of each motor type, ABB has focused heavily on ensuring the **quality, durability and reliability**

is second to none. When you buy from ABB Motor Service Partners, you buy **peace of mind** and a **guarantee** that whatever happens you have the backing of ABB - the world's largest motor manufacturer.

ABB process performance motors

ABB process performance motors have what it takes to reach new levels of efficiency in process industries and heavy duty applications which are dependent on continuous reliability, lowest possible environmental impact and lifecycle costs.

Range	M2BA 71 to 132 M3BP 160 to 450 M4BP 160 to 250 premium efficiency motors M3BPP 280 to 355 premium efficiency motors M3BN 405 to 588, corresponding motors according to NEMA standards
Output	0.25 to 1000 kW
Frame material	Cast iron
Pole numbers	2 to 8 pole
Voltage	All common voltages, 50 and 60 Hz
Number of speed	1 and 2 speed
Key features	<ul style="list-style-type: none"> ● Designed with reduced bearing and winding temperature – increased lifetime ● Increased strength on end shields and terminal box ● Improved surface treatment ● Improved terminal box sealing ● Harmonised feed design ● Suitable for VSD applications ● Increased cooling area – up to 20% - 20 to 40 % longer service interval ● Reduces losses by about 5%

This range provides the most comprehensive, versatile set of motors for the widest variety of needs. Their superior ability to perform reliably and efficiently, continuously and even under the most challenging circumstances reflect the essential ABB values and properties.

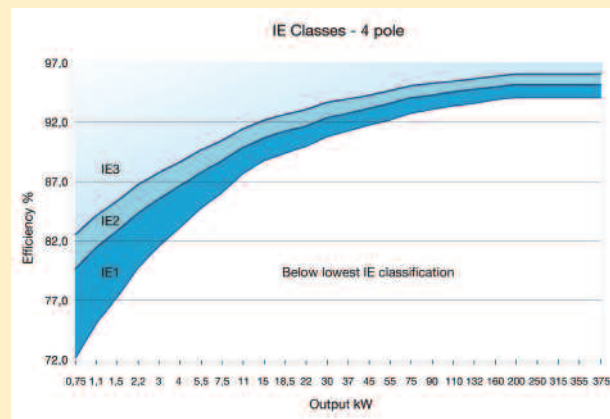


Efficiency categories for motors

The International Electrotechnical Commission has introduced a new standard relating to energy efficient motors. It defines three IE (International Efficiency) efficiency classes for single-speed, three phase, cage induction motors.

The new testing standard and classification system will make for a fairer, more accurate comparison between motors and provides a level playing field for motor manufacturers.

IE efficiency classes for 4-pole motors at 50 Hz

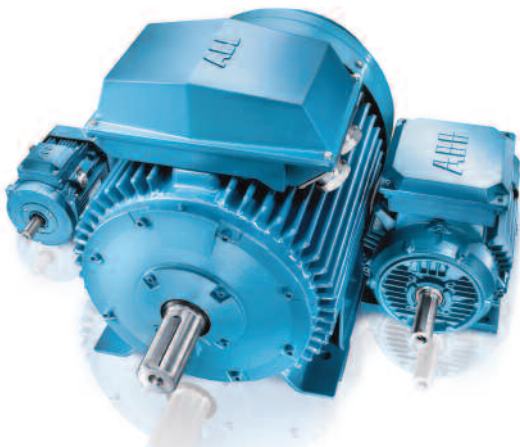


Efficiency level	Efficiency class (IEC/EN 60034-30)	Old CEMEP standard	Where required
Super premium efficiency	IE4	-	Proposed
Premium	IE3	-	USA from 2011, Europe from 2015
High efficiency	IE2	Eff1	USA, Canada, Mexico, Australia, New Zealand, Korea, Brazil (from 2009), China, Europe (from 2011)
Standard efficiency	IE1	Eff2	China, Costa Rica, Israel, Taiwan
Low	Not categorised	Eff3	

ABB industrial performance motors

ABB industrial performance motors have a solid foundation based on proven quality and reliability. Within this range ABB offers the widest selection of frame sizes and frame materials. All variant codes normally needed by OEM customers are available.

The user only needs to pay for the enhancements needed, bringing a motor that is tailored to the specific needs of the application. The motors come with a two-year warranty and full VSD compliance. The robust structure, as well as improved mechanical and electrical design, provides reliable operations and longer lifetime with less interruptions and maintenance costs.



The ABB industrial performance motors are available in aluminium, cast iron and steel frames, with all pole numbers and essential variant codes. The wide output range – from frame size 71 to 400 – further enhances the flexibility of the portfolio.

Range	Aluminium frame: M3AA 80 to 280, 1.1 to 90 kW Steel frame: M2CA 280 to 400, 75 to 630 kW Cast iron frame: M3BA 71 to 250, 1.1 to 75 kW
Pole numbers	2 to 8 pole
Voltage	All common voltages, 50 and 60 Hz
Number of speed	1 and 2 speed

Motor rating plate marking

ABB is fully prepared for the new efficiency classes. It has already acquired the new testing equipment needed; it has calculated its motor efficiencies under the new standards according to the indirect method with additional losses determined by measurement; and efficiencies are being shown in catalogues according to the old and new standards until the legislation takes force.

At the same time the motor rating plate carries the lowest efficiency value and the associated IE-code along with efficiency at full rate load and voltage. As standard ABB has stamped 400V, 415V and 690V while the efficiency value is given for 400V.

ABB Oy, Motors Vaasa, Finland						
CE						
3 ~ Motor M3BP 315 SMC 4 B3						
IEC 315 S/M 80						
S1				No. 32911117711SM		
				Ins.d.	F	IP 55
V	Hz	kW	r/min	A	cos φ	Duty
690 Y	50	160	1487	166	0,85	
400 D	50	160	1487	287	0,85	
415 D	50	160	1488	279	0,84	
IE2 - 95,6%						
Prod. code 3GBP312230- ADG						
				Nmax 3200 r/min		
6319/C3				6319/C3		1000 kg
ABB IEC 60034-1						

For sales and service

Tel: 0870 243 8811

email: enquiries@abbmsp.co.uk

www.abbmsp.co.uk



The ABB Motor Service Partners is the authorised technical channel for the extensive range of low voltage electric motors from ABB Limited. The ABB Motor Service Partners offer extensive service and support for ABB's motors and as such are audited at regular intervals to ensure the high standards afforded by ABB are maintained.

Your nearest MSP partner is:

