

# Motors and electrical equipment

## Individual solutions are our standard



### Development and manufacturing

BARTEC VARNOST has been developing and manufacturing explosion-protected electric motors for over 45 years. Besides standard solutions in drive technology we also satisfy individual needs from design, development, testing, to certifying and manufacturing.

### Technical data

#### Explosion protection

- Ex II 2G Ex d IIC T4
- Ex II 2G Ex de IIC T4
- Ex II 2D IP 65 T135 °C
- Frame size from 71 to 315 mm
- Power from 0.09 kW to 200 kW
- Standard polarity: 2, 4, 6 in 8
- Two-speed electric motors
- Voltage: 380 to 415 V/660 to 720 V
- Frequency: 50/60 Hz
- Insulation class: F
- Mechanical protection: IP 54 to IP 68

### Motor frame

#### Explosion protection

- Ex II 2G Ex d IIC T4
- Ex II 2D IP 65 T135 °C
- Gray cast iron: frame size 71 to 250 mm
- Welded frames: frame size 250 to 315 mm
- Modular implementation of frames allows:
  - screw-on flanges of various dimensions
  - screw-on feet
  - rotation of terminal box in intervals of 90°
- Ball bearing solidly fixed on AS side

### Terminal box

- Choice between Ex d or Ex e terminal box
- Terminal box positioning at 90°, 180° and 270°
- Metric entry threads, Pg, NPT and ISO 7/1
- 12 terminals
- Direct cable entry without terminal box

### Additional options

- Temperature sensors: PTC, PTO, Pt100
- Anti-condensation heater
- Temperature class: T5 and T6
- Temperature class: T85 °C for dust
- Insulated bearings starting from a frame size of 180 mm and above
- Additional bearing lubrication
- SPM provision for frame size above 100 mm
- Usage with frequency regulator up to 100 Hz without additional certification
- Additional forced cooling for frequency-regulated drives at low frequencies
- Add-on Ex pulse generator
- Add-on Ex brake
- Special versions for hard working conditions in chemistry
- Ship versions Lloyd's Register Type Approval Certificate

### Quality

The quality of our products and services is our primary concern. The reliability and high technical level of our systems and components have been confirmed by the internationally accredited test institutes which have awarded us numerous certificates.

With the help of the ISO 9001:2000 certificate the system of quality BARTEC VARNOST is recognizable throughout the world and assures quality from the development to the delivery of a product to the customer.

### Certificates

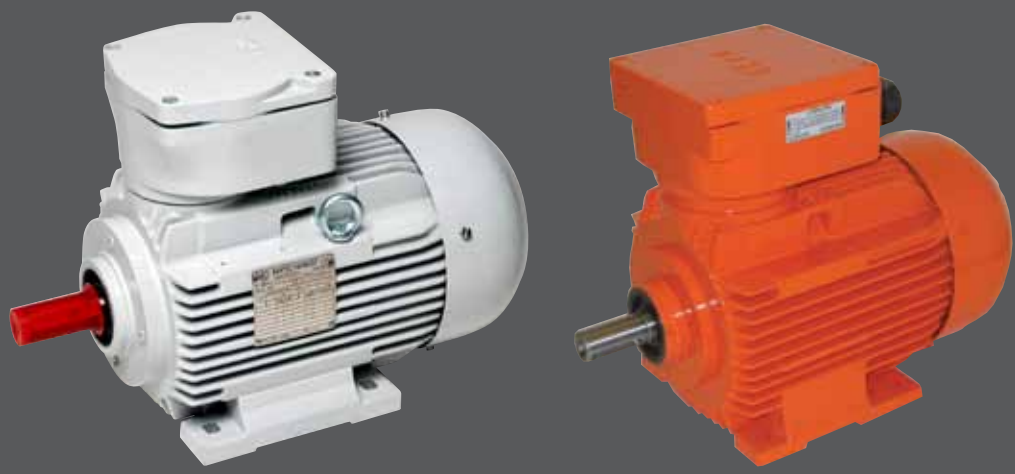
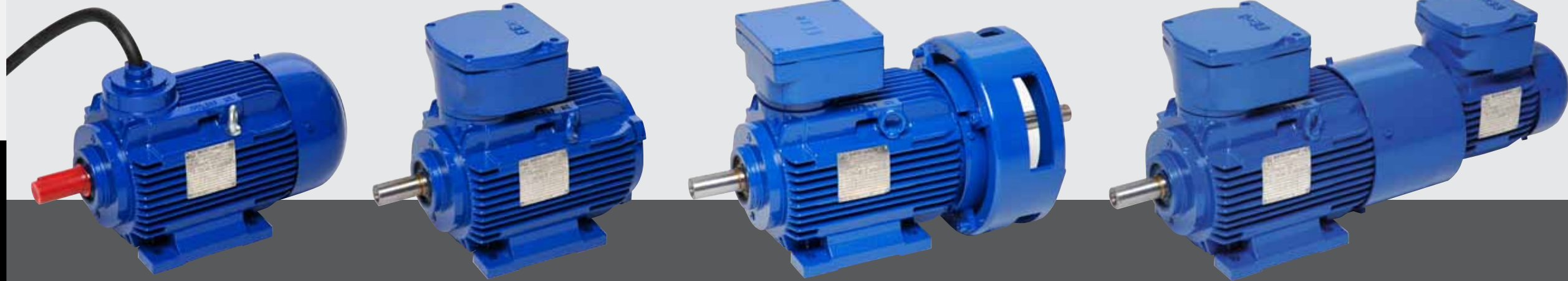
- SIQ 11 ATEX Q 220-0
- ISO 9001
- ISO 14001
- OHSAS 18001



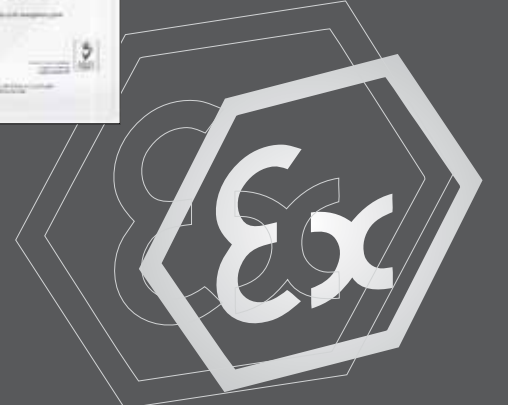
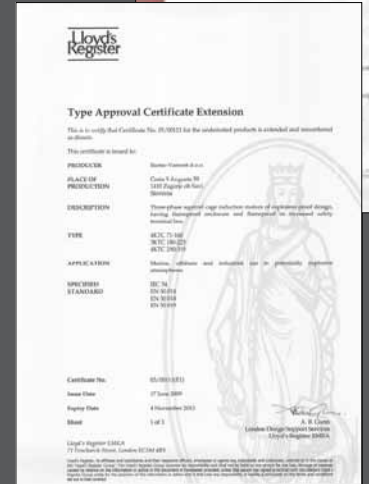
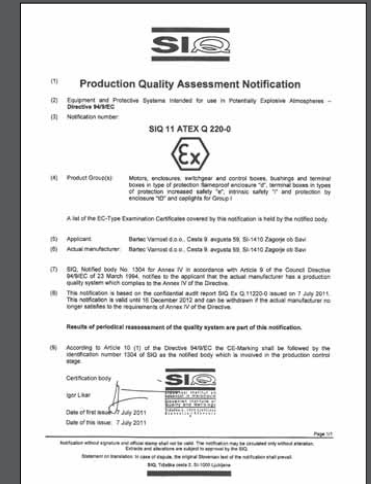
Your competent electrical motor partner.



The specialists at BARTEC have years of experience in electric motors for hazardous areas. They create solutions which you can rely on: economical, reliable and for the future.



- 4KTC Motor Series for hazardous areas**
- Certified in accordance with Directive 94/EC (ATEX)**
- Manufactured according to EN 60079 and EN 61241 standards**



**Explosion protection**

Decades of experience in explosion-proof and flame-proof construction, not to mention many hundreds of approvals in accordance with national and international standards, from the basis of our expert planning and execution.