

Low voltage flameproof motors

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Individual solutions are our standard

BARTEC VARNOST has been developing and manufacturing explosion-protected electric motors for over 55 years. Besides standard solutions in drive technology we also satisfy individual needs from design, development, testing, to certifying and manufacturing.

Our experience in hazardous areas and our flexibility permit us to answer the most special requirements for different applications of flame-proof motors. To choose the ideal motor for your particular application, you can benefit from our experts' knowledge. All over the world, our engineers can advise and assist you from the idea to the implementation of your flame-proof motor project.

BARTEC VARNOST

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.



Explosion protection

- ⊕ II 2G Ex de IIC T4 Gb or
- ⊕ II 2G Ex d IIC T4 Gb
- ⊕ II 2D Ex tb IIIC T135 °C Db
- ⊕ I M2 Ex de I Mb
- ⊕ I M2 Ex d I Mb

Certificates:

ATEX, IECEx, KOSHA, GOST-R, GOST-K, TRCU

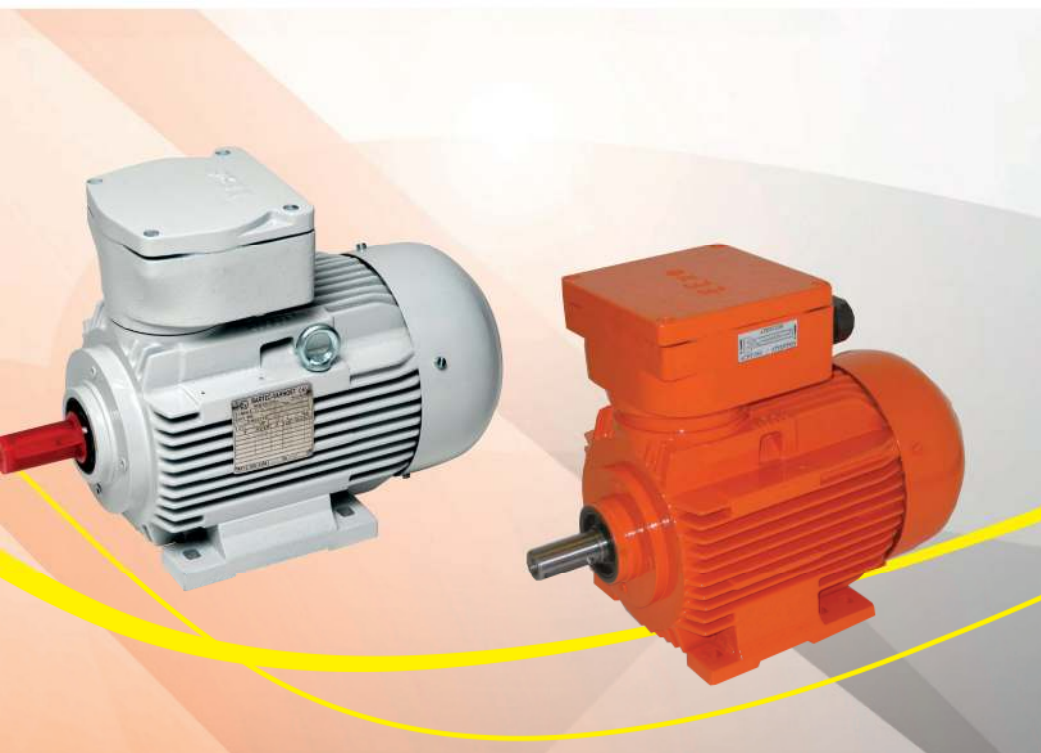
Technical data

- Frame size from 63 to 250 mm
- Power from 0.05 kW to 400 kW
- Voltage up to 1100 V
- Standard polarity 2, 4, 6 and 8
- Double speed motors
- Frequency 50 Hz or 60 Hz
- Insulation class F or H
- Mechanical protection IP 54 up to IP 68
- Ambient temperature -50 °C up to +85 °C

4KTC Motor Series for hazardous areas in industry and mining

Certified in accordance with Directive 94/4/EC (ATEX)

Manufactured according to EN 60079 and EN 61241 standards



Motor frame

- Gray cast iron:
frame size 63 to 250 mm
- Welded frames:
frame size 280 to 355 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

Best Service

Our experienced team is the guarantee for your success.

Take advantage of decades of experience in explosion-proof and flame-proof construction of our specialists. They realized many hundreds of approvals for BARTEC motors in accordance with national and international standards.

We are always there for you from planning up to execution – throughout each project phase of your customized flameproof motor solution.



Additional options

- Temperature sensors in windings or bearings
PTC, PTO or Pt100
- Anti-condensation heaters
- Temperature class T5 and T6
- Insulated bearings from frame size 160 and above
- Additional bearing lubrication
- SPM provision for frame size above 100
- Usage with frequency regulator up to 100 Hz
without additional certification
- Additional forced cooling for frequency-regulated drives
at low frequencies
- Add- on Ex encoder
- Special version for hard working conditions in chemistry
- Motors for marine industry with certificates:
GL, LRS, BV, ABS, DNV, RMRS...
- IP 68 submersible flameproof motors 4KTS
- Flameproof motors with brake BM 4KTC

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.

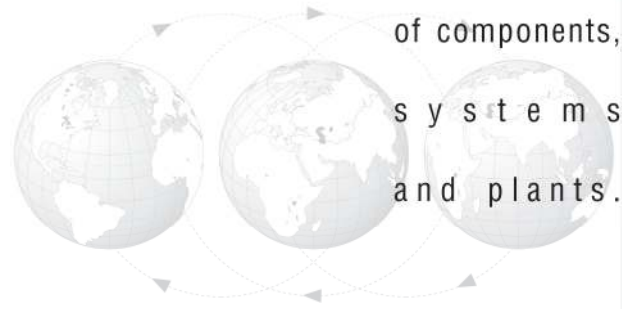
With the help of the ISO 9001:2000 certificate the system of quality BARTEC VARNOST is recognizable throughout the world and assures quality from the development to the delivery of a product to the customer.



- SIQ 11 ATEX Q 220-2
- ISO 9001
- ISO 14001
- OHSAS 18001

BARTEC protects
people and
the environment
by the safety

of components,
systems
and plants.



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