



EXPLOSION PROOF MOTORS

Standard execution:

Output: from 0,75 kW to 3200 kW
Number of poles: 2, 4, 6, 8 and others upon request
Frame: from 80 to 900
Voltages: 400 V, 500 V and others upon request
Frequency: 50 Hz or 60 Hz
Degree of protection: IP55, IP56, IP65, IP66
Terminal box: on top
Duty: S1
Efficiency level: IE1, IE2, IE3

ATEX classification:

Category: M2, 2G, 3G, 2D, 3D
Zone: 1, 2, 21, 22
Temperature classes: T3, T4, T5
Enclosures: Ex ec / ExnA, Ex t, Ex eb, Ex db (eb)

Other options are available upon request.

Types of Ex motors

We offer a wide range of Explosion Proof motors, such as:

- non-sparking IEC motors and Class I Div 2 NEMA motors
- dust ignition proof IEC motors and Class II Div 2 NEMA motors
- increased safety motors
- flame-proof motors for chemical industry
- flame-proof motors for mining industry



Requirements and standards

Motors adapted for operating in hazardous areas, other than mining, due to the presence of explosive gases, vapours, mists or dust are designated as Group II. In the mining, endangered by the explosion of methane and coal dust, motors are designated as Group I.

Each motor is manufactured according to requirements of ATEX Directive 2014/34/EC, which is dedicated for equipment operating in hazardous areas.

Moreover, we can also deliver Ex motors with other certifications/approvals like for example EAC, GOST, BiH, IEC Ex, CSA (Hazardous Locations).

The motors meet the following requirements and standards:

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| EN 60079-0 | Explosive atmospheres – Part 0: Equipment General requirements |
| EN 60079-1 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| EN 60079-7 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" |
| EN 60079-15 | Explosive atmospheres - Part 15: Equipment protection by type of protection "n" |
| EN 60079-31 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| UL Std. 674 | Electric Motors and Generators for Use in Hazardous (Classified) Locations |
| CSA C22.2 No. 213-16 | - Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations |
| CSA C22.2 No. 145-11 (R2015) | - Electric motors and generators for use in hazardous (classified) locations |