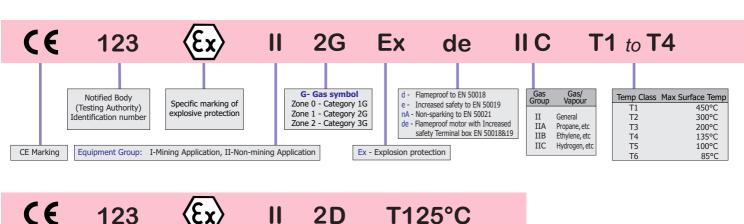
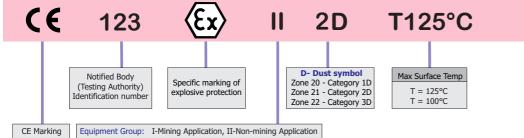
ATEX Categories Explanation



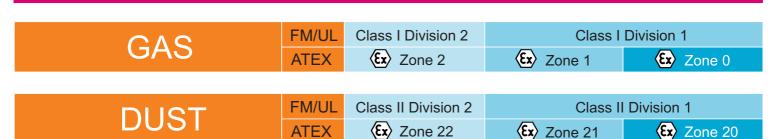
Electric Motors for DUST Explosive Atmospheres Electric Motors for GAS Explosive Atmospheres To ATEX 94/9/EC & 1999/92/EC Directives No motors can be installed No motors can be installed in ZONE 0 in ZONE 20 Explosive Gases Explosive Dust Atmosphere Zone 20 Zone 0 present continuously present continuously Explosive Gases Explosive Dust Atmosphere Zone 1 Zone 21 likely to occur in likely to occur in normal service normal service ZONE 0 ZONE 20 Explosive Gases unlikely Explosive Dust Atmosphere (DUST) (GAS) Zone 22 Zone 2 to occur and would be unlikely to occur and would infrequent and short term be infrequent and short term G - gas symbol D - dust symbol Category 1G Zone 20 Category 1D Zone 0 Category 2G Zone 21 Category 2D **ZONE 2** Zone 1 **ZONE 22** Category 3G Zone 22 Category 3D Zone 2 (GAS) (DUST) (€... (II 2G Ex-d, Ex-d(e) **(€**...**ⓑ** II 2D IP65 (€... (II 2G Ex-d, EEx-d(e) (€... II 3D IP55 (non-conductive dust) **(€**...**(** II 2G Ex-e C€... II 2D IP65 (conductive dust) (€... (II 2G Ex-e





(€...**ⓑ** II 3G Ex-nA

"Ex" protection in North America (Comparison of zones and divisions)



IEC (International Electrotechnical Commission)- Europe NEMA (National Electrical Manufacturing Association)- North America

The UL (Underwriters Laboratories) or the FM (Factory Mutual) in the USA and the CSA (Canadian Standards Association) in Canada test and issue approvals for the equipment that has been developed and manufactured for use in hazardous areas.

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