Product marking guide

Classification of equipment for use in potentially explosive atmospheres



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Protection technique				
Application	Type of protection		Marking	EN/IEC standard
All applications	General requirements		-	60079-0
Control stations, motors, fuses, switchgear, power electronics	Flameproof enclosure	<u>々</u>	Exd	60079-1
Installation materials, motors, luminaries	Increased safety	X	Exe	60079-7
Measurement and control, automation technology, sensors, actuators	Intrinsic safety]]]]X	Exi	60079-11
Switch- and control cupboards, analyse- apparatus, computers	Pressurisation	` 台、	Exp	60079-2
Coils of motors or relays, solenoid valves	Encapsulation	台	Exm	60079-18
Transformers, relays, control stations, magnetic contactors	Oil immersion	8	Exo	60079-6
Capacitors, transformers	Powder filling	8	Exq	60079-5
See at the top - only for zone 2	'Non sparking'		Exn	60079-15
For use in zone 0, 1, 2 / for use in zone 1, 2	Dust atmospheres		Ext	60079-31

Equipment without - restriction - Equipment with special X condition may be noted - Ex component, which is U not intended to be used alone and requires additional certification before being used in hazardous area -	Equipment without restriction Equipment with special condition may be noted Ex component, which is not intended to be used alone and requires additional certification before being used in hazardous area	Require	ements	Marking
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IIA T1 Acetone 735° IIA T1 Ammonia 630° IIB T1 Carbon monoxide 605° IIA T1 Bensene 560° IIC T1 Hydrogen 560° IIA T1 Methane 537° IIA T1 Toluene 535° IIA T1 Styrene 490° IIA T1 Propane 470° IIA T1 1-Butene 455° IIB T1 Butadiene 430°

IIB T2 Ethylene 425° IIA T2 Butane 372° IIA T2 Ethanol 363° IIA T2 Ethanol 363° IIB T2 Dimetylether 350° IIC T2 Acetylene 305°

IIA T3 Nafta 290° IIA T3 Hydrogen sulphide 270° IIA T3 Cyclohexane 259° IIA T3 Hexane 233° IIA T3 Heptane 215° IIA T3 Kerosene 210°

IIA T3 Dekane 201°

IIB T4 Diethyl ether 160°

IIC T6 Carbon disulphide 95°



New marking — EPLs

(explosion protection levels)

The introduction of the EPLs and changes in the EN 60079 series standard has introduced new marking requirements.