1 Scope

This ~~part of IEC 60079~~ standard contains specific requirements for the construction and testing of electrical equipment with the type of protection flameproof enclosure “d”, intended for use in Class I, Zone 1, explosive gas atmospheres.

This standard supplements and modifies the general requirements of ~~IEC 60079-0~~ ANSI/ISA-60079-0. Where a requirement of this standard conflicts with a requirement of ~~IEC 60079-0~~ ANSI/ISA-60079-0, the requirement of this standard will take precedence.

NOTE Equipment protection by flameproof enclosures “d” provides Equipment Protection Level (EPL) Gb. For further information, see Annex G.

2 ~~Normative~~ references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60061 (all parts), *Lamp caps and holders together with gauges for the control of interchangeability and safety*

~~IEC 60079-0:2004, *Electrical apparatus for explosive gas atmospheres – Part 0: General requirements*~~

ANSI/ISA-60079-0:2005, Electrical apparatus for use in Class I, Zones 0, 1, & 2 hazardous (classified) locations – General requirements

IEC 60079-1-1, *Electrical apparatus for explosive gas atmospheres – Part 1-1: Flameproof enclosures “d” – Method of test for ascertainment of maximum experimental safe gap*

~~IEC 60079-7, *Explosive atmospheres – Part 7: Equipment protection by increased safety “e”*~~

ANSI/ISA-60079-7, Electrical apparatus for use in Class I, Zone 1 hazardous (classified) locations – Type of protection increased safety “e”

~~IEC 60079-11, *Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”*~~

ANSI/ISA-60079-11, Electrical apparatus for use in Class I, Zones 0, 1, & 2 hazardous (classified) locations – Type of protection intrinsic safety “i”

IEC 60079-14:2002, *Electrical apparatus for explosive gas atmospheres – Part 14: Electrical installations in hazardous areas (other than mines)*

IEC 60086-1:2000, *Primary batteries – Part 1: General*

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60127 (all parts), *Miniature fuses*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60623:2001, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Vented nickel-cadmium prismatic rechargeable single cells*