ONLINE CERTIFICATIONS DIRECTORY

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Control Panels and Assemblies for Use in Zone Classified Hazardous Locations

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Control Panels and Assemblies for Use in Zone Classified Hazardous Locations

See General Information for Control Panels and Assemblies for Use in Zone Classified Hazardous Locations

E186261

UL

ADALET/SCOTT FETZER CO
4801 W 150TH ST
CLEVELAND, OH 44135-3301 USA

Class I, Zone 1, AEx e II.

Control panels, Series CN4, CN4X, CN4X6.

Class I, Zone 1, AEx d e mb IIC.

Control panels, Series CSC4, CSC4X, CSC4X6.

Last Updated on 2009-09-11

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Class I, Zone 1, Ex e II.

Control panels, Series CN4, CN4X, CN4X6.

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DESCRIPTION

PRODUCT COVERED:

USL, CNL Series CSC4, CSC4X and CSC4X6 Control Panel Enclosures for use in Class II, Division 2, Groups F and G; Class I, Zone 1 Hazardous Locations, AEx e II T5/T6 and Ex e IIC T5/T6 X.

GENERAL:

The Type CSC Series of enclosures are Control Panel Enclosures designed to incorporate control, display and regulatory type devices. Connections to these devices are made directly or through terminal blocks fitted inside the enclosure. These enclosures are manufactured of powder coated cold rolled steel, brushed finish stainless steel 304 and brushed finish steel 316L respectively and are available in various sizes and depths. The boxes consist of a cover, hinge assembly, body, grounding lug, gland plates and gaskets. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to eight gland plates.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

These devices are Listed in accordance with the following Standards for use in the United States and Canada.

USL indicates investigation to:

UL 60079-0, Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements, Fourth Edition.

UL 60079-7, Electrical Apparatus for Explosive Gas Atmospheres - Part 7: Increased Safety 'e,' Fourth Edition, Revised 2009-02-18.

ANSI/ISA 12.12.01-2007, Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations.

IEC 60529, Degrees of Protection Provided by Enclosures (IP Code), Edition 2.1.

UL 50, Enclosures for Electrical Equipment, Eleventh Edition, Revised 2003-09-12.

CNL indicates investigation to:

CAN/CSA C22.2 No. 60079-0:07, Electrical Apparatus for Explosive Gas Atmospheres, Part 0: General Requirements.

CAN/CSA C22.2 E60079-7:03, Electrical Apparatus for Explosive Gas Atmospheres, Part 7: Increased Safety 'e.'

CAN/CSA E61241-1-1:02, Electrical Apparatus for Use in the Presence of Combustible Dust - Part 1-1: Electrical Apparatus Protected by Enclosures and Surface Temperature Limitation - Specification for Apparatus.

IEC 60529, Degrees of Protection Provided by Enclosures (IP Code), Edition 2.1.

ELECTRICAL RATINGS:

Maximum Voltage	Ambient Temperature Range	Temperature Class
1.1 kV	-20°C to +40°C	T6
1.1 kV	-20°C to +55°C	T5

Environmental rating is IP66.

MARKING:

The following items are permanently marked on the exterior of each enclosure.

1. Listee's name or trademark.

2. Type Identification/Catalog Number.

3. Designation of Hazardous Locations and protection method as shown under "Product Covered." When operating devices of protection type 'd e mb' or 'd e' are installed in the enclosure, it shall be marked:

   AEx d e mb IIC T6 and Ex d e mb IIC T6 X for ambient temperature -20°C [Tamb [+40°C.

   AEx d e mb IIC T5 and Ex d e mb IIC T5 X for ambient temperature -20°C [Tamb [+55°C.

   AEx d e IIC T6 and Ex d e IIC T6 X for ambient temperature -20°C [Tamb [+40°C.

   AEx d e IIC T5 and Ex d e IIC T5 X for ambient temperature -20°C [Tamb [+55°C.

4. Ambient temperature marking of -20°C to +55°C for Models with a T5 temperature code.

5. Operating temperature code, per the Table under "Ratings" above.

6. Serial number.

7. Reference to specific installation document.

8. Rated voltage and current.

9. Set of values comprising for each terminal size, the permissible number and size of conductor and the maximum current.

10. May be marked IP66.

11. May be marked Type 4X, 12 and 13.

12. May be marked Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G.