File E476231
Project 4786880597

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REPORT

on

POWER CIRCUIT AND MOTOR-MOUNTED APPARATUS FOR USE IN HAZARDOUS LOCATIONS

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DESCRIPTION

PRODUCT COVERED:

USL, CNL – Open Type Industrial Control Equipment for use in Class I, Division 2, Groups A, B, C, D Hazardous Locations.

Switch mode power supply model DRF480-24-1-xyz; DRF480-24-1/HL-xyz; DRF480-24-1/HLIVS-xyz, where x, y and z can be any alphanumeric character or blank and is non safety relevant information. HL – designates model provided with coating, HLIVS is model with coating and DC-rated input.

GENERAL:

These devices are open type power supply modules intended to be used in combination with Industrial Control Equipment, providing a single 24 Vdc output. The devices are intended to be installed in an enclosure providing adequate protection for the end-use environment.

Models DRF480-24-1-xyz and DRF480-24-1/HL-xyz are identical expect model /HL is provided with coating. DRF480-24-1/HLVIS-xyz is identical to DRF480-24-1/HL-xyz except DC-rated input and no output voltage adjustment.

These products shall comply with ordinary locations File E362999, issued date 2014-07-01, Power Circuit and Motor-Mounted Apparatus, covering for this manufacturer and with the following description. Should the Procedure File E362999, issued date 2014-07-01 be withdrawn, labeling under this Procedure must be discontinued until authorization to resume is received.

TECHNICAL CONSIDERATIONS:

CNL - Indicates investigated to CSA C22.2 NO. 213-M1987 NON-INCENDIVE ELECTRICAL EQUIPMENT FOR USE IN CLASS I, DIVISION 2 HAZARDOUS LOCATIONS (1987 EDITION) - Edition 1 - Issue Date 1987/03/01

USL – Indicates investigated to ISA 12.12.01 NONINCENDIVE ELECTRICAL EQUIPMENT FOR USE IN CLASS I AND II, DIVISION 2, AND CLASS III, DIVISIONS 1 AND 2 HAZARDOUS (CLASSIFIED) LOCATIONS - Edition N/A - Issue Date 2013/06/03

RATINGS:

Table 1

Model	Input Ratings	Output Ratings	Temperature Code
DRF480-24-1-xyz; DRF480-24-1/HL-xyz	100-240 Vac, max 5.4A, 50/60 Hz	24-28 Vdc, 20-15.4 A Max. output power: 480 W	T3
DRF480-24-1/HLIVS-xyz	100-240 Vac; 108-145 Vdc max 5.4A, 50/60 Hz	24 Vdc, 20 A Max. output power: 480 W	T3

Ambient temperature range, $-25^{o}C \leq Ta \leq +60^{o}C$ at 100 % load; from $+60^{o}C$ de-rate linearly 2.5%/^{o}C to $+70^{o}C$