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 DRB50-5-1-xyz; DRB50-12-1-xyz; DRB50-24-1-xyz and DRB50-48-1-xyz, where x, y and z can be any alphanumeric character or blank and is non safety relevant information.

GENERAL:

These devices are open type power supply modules intended to be used in combination with Industrial Control Equipment, providing a single 5, 12, 24 and 48 Vdc output respectively. The devices are intended to be installed in an enclosure providing adequate protection for the end-use environment.

These products shall comply with ordinary locations File E362999, issued date 2013-11-21, Power Circuit and Motor-Mounted Apparatus, covering for this manufacturer and with the following description. Should the Procedure File E362999, issued date 2013-11-21 be withdrawn, labeling under this Procedure must be discontinued until authorization to resume is received.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
DRB50-5-1-xyz	100-240 Vac, max 1.2A, 50/60 Hz	5-5.5 Vdc, 6-5.45 A Max, output: 30 W	T4
DRB50-12-1-xyz	100-240 Vac, max 1.2A, 50/60 Hz	12-15 Vdc, 3.4 A Max, output: 51 W	T4
DRB50-24-1-xyz	100-240 Vac, max 1.2A, 50/60 Hz	24-28 Vdc, 2.1-1.8 A Max, output: 50.4 W	T4
DRB50-48-1-xyz	100-240 Vac, max 1.2A, 50/60 Hz	48-52.8 Vdc, 1.05-0.95 A Max, output: 50.4 W	T4

Ambient temperature range, $-10^{o}C \leq Ta \leq +55^{o}C$ at 100 % load (50W); from $-10^{o}C$ de-rate linearly $5\%/^{o}C$ to $-20^{o}C$ and from $55^{o}C$ de-rate linearly $3.3\%/^{o}C$ to $+70^{o}C$