

File E362999

Project 4789261373

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REPORT

On

Power Circuit and Motor-mounted Apparatus

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DESCRIPTION

PRODUCT COVERED:

USL/CNL - Open type, Switching Mode Power Supply, Models DRB120-12-1, DRB120-48-1, may be followed by "-", "/" or any alphanumeric characters, may be followed by CO, CO2 or any alphanumeric characters.

GENERAL:

These devices are open type, switching type power supply modules intended for din rail mounting and to be used in combination with Industrial Control Equipment. The output circuit is isolated from the primary circuit by a switch mode design transformer and optical isolators. These devices are suitable for field wiring and for use in a pollution degree 2 environment / controlled environment.

ELECTRICAL RATINGS:

Series	Load Condition	Input Ratings	Output Ratings
DRB120-12-1	Normal (#1)	100-240 Vac, 1.5A, 50/60Hz	12-13.2 Vdc, 10-9.09 A, Max. 120 W
	Peak Output (#2)		12-13.2 Vdc, 12-10.9 A, Max. 144W
DRB120-48-1	Normal (#1)	100-240 Vac, 1.5A, 50/60Hz	48-52.8 Vdc, 2.5-2.27 A, Max. 120 W
	Peak Output (#2)		48-52.8 Vdc, 3-2.72 A, Max. 144W

Note:

#1 - The derating curve explaining the characteristics between the permissible load and the surrounding air temperature shown in ILL. 10 is the part of the Output ratings.

#2 - The peak output ratings which allow to consume variable output current value up to 12 A for DRB120-12-1 and 3A for DRB-120-48-1, the first up to 10 seconds with the Duty cycle of 35%.

ENVIRONMENTAL RATINGS:

Max Surrounding Air Temperature: 70°C (#3)
Pollution Degree: 2

Note:

#3 - The permissible max. surrounding air temperature rating is specified in the derating curve related to the permissible load and the mounting orientation, shown in ILL. 10.

Above 55°C the output is derated linearly to 50% power at 70°C.

NOMENCLATURE:

Example: DRB120-12-1wxyz

DRB	120	-	12	-	1
I	II		III		IV

I - Product Series Name
DRB: Block Terminal type

II - Output Power
120: 120 Watts

III - Output Voltage
12: 12-13.2 Vdc
48: 48-52.8 Vdc

IV - Phase
1: Single

Where w, x, y, z are considered as non-safety related information:

w can be '-' or '/' or blank or any alphanumeric;

x can be CO or CO2 or blank or any alphanumeric

y can be blank or any alphanumeric

z can be blank or any alphanumeric