

DESCRIPTION

PRODUCTS COVERED:

USL, CNL - Open Type Switch Mode Power Supply Model DRB480-24-1-xyz **and DRB480-48-1-xyz**, where x, y, z may be any letter or blank, and denotes special order, like no **LED** or fixed output voltage.

GENERAL:

These devices are open type power supply modules intended to be used in combination with Industrial Control Equipment. These devices are suitable for field wiring and for use in a pollution degree 2 environment / controlled environment.

RATINGS:

Cat. No.	Input Ratings	Output Ratings
DRB480-24-1-xyz	100-240 Vac 50/60Hz, 5.4A	24-26.4Vdc, 20-18.2A (480W)
DRB480-48-1-xyz	100-240 Vac 50/60Hz, 5.4A	48-52.8 Vdc, 10-9.09A (max 480W)

Max Surrounding Air Temperature: 50°C.

Above 50°C the output power is derated linearly down to 300W at 70°C.

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

USL - Indicates investigated to United States Standard UL **508**.

CNL - Indicates investigated to Canadian National Standard
C22.2 No. **107.1-16**.

Note:

CNL = Canadian National Standards - Listed

USL = United States Standards - Listed

CONSTRUCTION DETAILS:

The product shall be constructed in accordance with the following description.

Tolerances - Unless specified otherwise, all indicated dimensions are nominal.

Corrosion Protection - All parts are of corrosion resistant material or are painted as corrosion protection.

Printed Wiring Boards - All printed wiring boards are R/C (ZPMV2) rated min V-1, 130°C and suitable for direct support in accordance with UL 796, except otherwise described in the Report. Refer to R/C Directory for dwell time and solder temperature limitations unless specified otherwise.

SPACINGS AT FIELD WIRING TERMINALS:

Spacings at field wiring terminals are deemed to comply with the following requirements based on recognition of individual terminals:

- **With reference to UL508, 18th edition, table 37.1, Group B (limited ratings), 51-300V, with PD 3 considered more onerous than PD 2, min. 1.6mm through air and 3.2 mm over surface.**
- **With reference to CSA c22.2 No 107.1-16, table 6 min: 2.4mm**

SPACINGS ON PRINTED WIRING BOARD:

Spacings between traces of opposite polarity evaluated to table 36.3

On printed-wiring boards, their connectors, and board-mounted electrical components, wired on the load side of the line filters of similar voltage peak reduction networks and components, a minimum spacing of 0.0230 inch (0.584 mm) plus 0.0002 inch (0.005 mm) per volt peak shall be maintained over surface and through air between uninsulated live parts and any other uninsulated live or dead conductive parts not of the same polarity

Minimum spacings between live parts of opposite polarity:

- with reference to Table 6 of CSA C22.2 No. 107.1: min. 2.4 mm.
- with reference to Table **37.5** UL 508 **18th** ed.: min. 2.4 mm.

GENERAL SPACINGS

Spacings on components, between components and metal housing, between uninsulated parts of opposite polarity evaluated to **table37.5**.

Minimum spacings between live parts of opposite polarity:

- with reference to Table 6 of CSA C22.2 No. 107.1: min. 2.4 mm.
- with reference to Table **37.5** UL 508 **18th** ed.: min. 2.4 mm.