

PSP24-REM240S REDUNDANCY MODULE



INSTALLATION INSTRUCTIONS

PSP24-REM240S Redundancy Module for PSP series

This module enables redundancy operation by decoupling two matched power supplies. It can also be used to separate sensitive loads from the main power supply.

PSP24-REM240S General Specifications	
Temperature	Operating: -10°C to +70°C max [14°F to +158°F max] Storage: -25°C to +85°C max, [-13°F to +185°F max], Cooling: Natural air convection
Parallel Operation	(2) matched power supplies per module. Maximum power shall not exceed 200 watts per input.
Electromagnetic Compatibility	In correspondence with connected power supplies
Case Material	Grey plastic, FR2010-110C (UL94 V-0 rated)
Mounting	Built-in snap-on connection for 35mm DIN rail or surface mount adapter included
Indication	Green LED for Output ON
Connections	Plug-in screw terminals, 0.5 to 0.7Nm [4.5 to 6.2lb-in] recommended tightening torque
Wire Size range	24 to 12 AWG [0.21 to 3.16 mm ²]
Dimensions	HxWxD 2.95in x 1.06in x 3.94in [75 x 27 x 100mm]
Agency Approvals	UL/cUL 508 Listed, File E197592, CE

Safety Instructions

Read these instructions carefully and completely before installation. These installation instructions cannot account for every possible condition of installation, operation or maintenance.

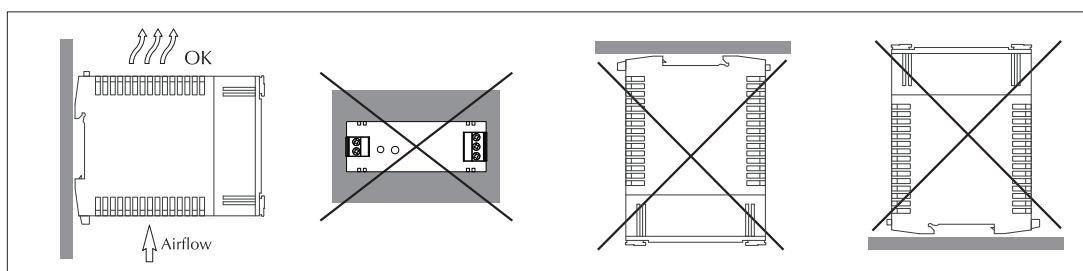
The PSP24-REM240S redundancy module is constructed in accordance with the safety requirements of IEC/EN60950, UL60950 and UL508.

Before any installation, maintenance or modification work, be certain that the main switch is switched off and locked out or otherwise prevented from being switched on again. Non-observance, touching of any live components or improper handling of PSP24-REM240S can result in death, severe personal injury or substantial property damage. Proper and safe operation is dependent on proper storage, handling, installation and operation. Compliance with the relevant national regulations (in the USA, Europe and other countries) must be maintained. Before operation is started, the following conditions must be followed:

- Compliance with national regulations (VDE0100 and EN50178).
- Use of stranded wires, all strands must be fastened in the terminal blocks.
- All input and output wires must be rated for the rated current and must be connected with the correct polarity.
- Sufficient cooling must be ensured.
- Never work on PSP24-REM240S if power is connected! Risk of electric arcs and electrical shock, which can cause death, severe personal injury or substantial property damage.
- **WARNING!** Do not open the PSP24-REM240S until at least 5 minutes after it has been disconnected from the power supplies on all poles.
- Allow only trained personnel to open the PSP24-REM240S.
- Do not insert any objects into the power supply.
- Keep away from fire and water.

Installation Instructions

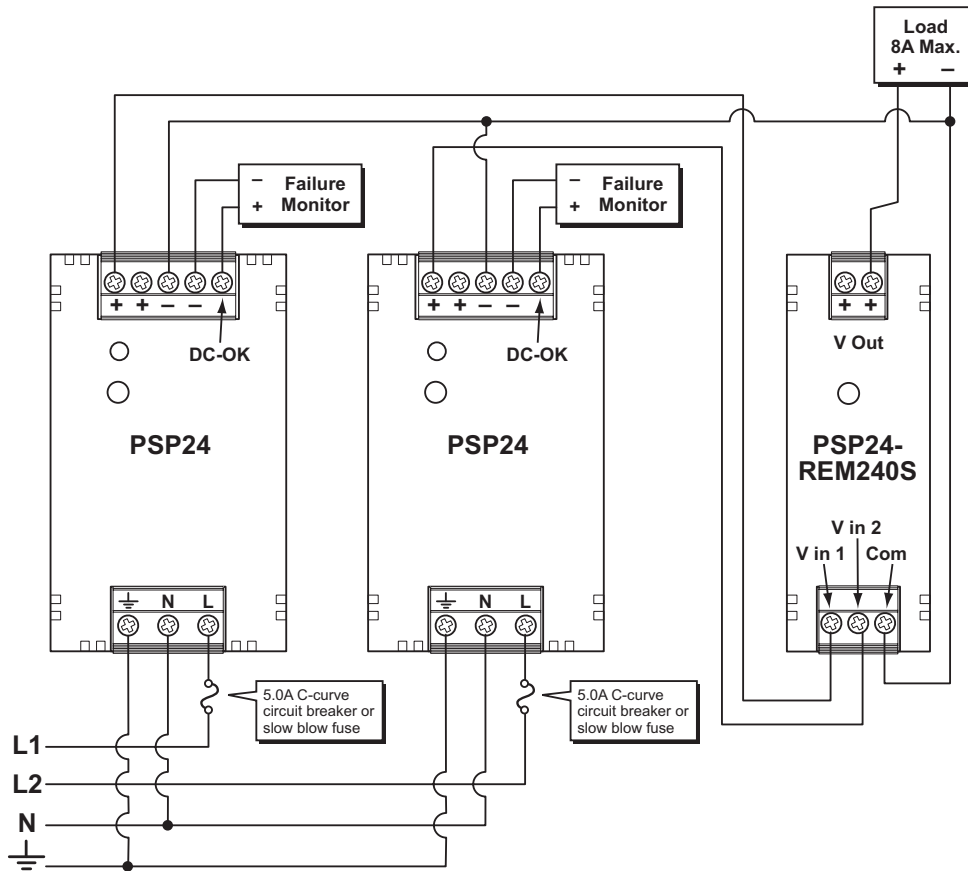
- This PSP24-REM240S is designed for professional indoor systems. In operation, the PSP24-REM240S must not be accessible. Allow installation and service by qualified personnel only.
- Mount the unit horizontally on a flat vertical surface as shown below to provide proper ventilation. You shall not mount the unit vertically, upside down, or on a horizontal surface. Do not cover any ventilation holes. Leave a free air space of minimum 50mm (2in.) above and below the power supply. Observe power derating.
- **Recycling:** The unit contains elements that are suitable for recycling, and components that need special disposal. Please make sure that the power supply is recycled in an environmentally friendly way at the end of its service life.



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Connection Diagram



Recommendations for redundant PSP Series power supply applications:

- With no load connected, adjust the output voltage of both power supplies to the same value.
- Use separate input over-current protection for each power supply.
- When possible, connect the input power to each power supply to different phases or circuits.
- When available on the connected power supplies, use the DC-OK output and/or DC-ON LED on each power supply to monitor for failure. (PSP05-020S, PSP12-024S and PSP24-024x do not have DC-OK output.)
- Connect all output leads together at a single distribution node using leads having the same length and cross section.

Redundancy Module Connector Positions

