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TRACO POWER TPC-REM240-24

TPC-REM240-24 DIN Rail Redundancy Module User Manual

Brand: TRACO POWER | Model: TPC-REM240-24

1. INTRODUCTION

The TRACO POWER TPC-REM240-24 is a high-performance DIN rail redundancy module designed to enhance the reliability of 24VDC power supply systems. It allows for the parallel operation of two independent power supplies, ensuring continuous power to the load even if one power supply fails. This module is ideal for critical applications requiring uninterrupted power.

2. SAFETY INSTRUCTIONS

- Always disconnect power before installation or maintenance.
- Installation must be performed by qualified personnel only.
- Ensure proper grounding and observe all local and national electrical codes.
- Do not operate the module if it is damaged or exposed to moisture.
- Verify correct input and output voltage and current ratings before connecting.

3. PRODUCT OVERVIEW

The TPC-REM240-24 module features two independent inputs for 24VDC power sources and a single output for the load. It includes internal ORing diodes to isolate the power supplies and ensure seamless transfer in case of a failure. Status indicators provide visual feedback on the operational status of each input.



Image showing the TRACO POWER TPC-REM240-24 DIN Rail Redundancy Module, a compact grey and black unit designed for DIN rail mounting, featuring input/output terminals and status indicators.

4. SETUP AND INSTALLATION

4.1. Mounting

The TPC-REM240-24 is designed for standard 35mm DIN rail mounting. To install:

1. Ensure the DIN rail is securely fastened within the enclosure.
2. Hook the top edge of the module onto the DIN rail.
3. Push the bottom edge of the module firmly until it clicks into place.

4.2. Wiring

Follow these steps for proper wiring:

1. Connect the positive (+) output of the first 24VDC power supply to the 'IN1+' terminal and its negative (-) output to the 'IN1-' terminal.
2. Connect the positive (+) output of the second 24VDC power supply to the 'IN2+' terminal and its negative (-) output to the 'IN2-' terminal.
3. Connect the positive (+) terminal of your load to the 'OUT+' terminal and the negative (-) terminal of your load to the 'OUT-' terminal.
4. Ensure all connections are secure and that wire gauges are appropriate for the expected current.

5. OPERATING INSTRUCTIONS

Once installed and wired, apply power to both input power supplies. The module will automatically draw power from the supply with the higher voltage or distribute the load if voltages are equal. In the event of a failure of one power supply, the module will seamlessly switch to the remaining operational supply, maintaining continuous power to the load.

5.1. LED Indicators

- **IN1 LED:** Illuminates when power supply 1 is active and providing voltage.
- **IN2 LED:** Illuminates when power supply 2 is active and providing voltage.
- **OUT LED:** Illuminates when the module is providing output power to the load.

6. MAINTENANCE

The TPC-REM240-24 module requires minimal maintenance. Periodically:

- Visually inspect the module for any signs of damage or overheating.

- Ensure all terminal connections remain tight and secure.
- Keep the module free from dust and debris to ensure proper ventilation.

7. TROUBLESHOOTING

- **No Output Power:** Check if both input power supplies are active and providing the correct voltage. Verify all wiring connections.
- **One Input LED Off:** This indicates that the corresponding power supply is either not active, not connected correctly, or has failed. Check the power supply and its wiring.
- **Module Overheating:** Ensure adequate ventilation around the module. Verify that the total load current does not exceed the module's maximum output current rating.

8. SPECIFICATIONS

Feature	Specification
Model Number	TPC-REM240-24
Input Voltage	24VDC (nominal)
Max Power per Input	120W
Output Voltage Range	24-27VDC
Output Current	10A (max)
Item Weight	6.99 pounds
ASIN	B09DDHYQGS
Date First Available	August 23, 2021
Manufacturer	TRACO POWER
UPC	710594815606

9. WARRANTY AND SUPPORT

This product is subject to a 30-day return policy from the date of purchase. For technical support, warranty claims beyond the return period, or further assistance, please contact TRACO POWER directly through their official support channels. Please have your model number (TPC-REM240-24) and purchase details ready when contacting support.