Woodward Woodward Series Service Manual

5466-318

1. Description

SPECIFICATIONS

3. Product Information

SPECIFICATIONS

Part Number: 5466-318

Manufacturer: Woodward

Product type: MicroNet TMR Kernel PS Module

Input Voltage: 24 Vdc ±10%

Output Voltage: 5 Vdc ±5%

Output Current: 10 A maximum

Availability: In Stock

Country of Manufacture: United States (USA)

Functional Description

5466-318 is a MicroNet TMR Kernel PS Module developed by Woodward. It receive 24 Vdc from the MicroNet main power supplies. This input voltage is expertly regulated to provide a reliable and steady 5 Vdc output with a remarkable current capacity of 10 A. This 5 Vdc output is distributed to power all the critical components and modules within the kernel section, enabling them to function optimally and with exceptional responsiveness. It plays a pivotal role in generating a 5 Vdc precharge voltage. This precharge voltage is essential for executing safe and controlled startup sequences. By ensuring gradual energization of various components during the initial power-up phase, the system is protected from potential surges or instabilities, thereby enhancing overall reliability and safety.

Features

The design of individual kernel power supply modules for each kernel section contributes to the MicroNet TMR control system's impressive fault tolerance. In the event of a power supply issue or failure in one kernel section, the other kernel sections can continue operating independently, preserving the overall system's functionality and safeguarding critical processes.

The redundancy and precision of the kernel power supply modules are pivotal in maintaining the high availability and robustness of the MicroNet TMR control system. This cutting-edge architecture guarantees continuous and uninterrupted operation, even in the face of unforeseen power supply anomalies, making it an exemplary choice for safety-critical applications such as nuclear power plants, aerospace systems, and various other mission-critical industries.

Each kernel power supply is equipped with a single LED that serves as an indicator of the kernel power supply's health.

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For each sub-chassis (kernel), it is imperative to install the Kernel Power Supply in the first module slot from the left. Following the Kernel Power Supply, the next module slot to the right must be dedicated to installing the Kernel CPU module. This sequential placement ensures the correct and efficient configuration of the sub-chassis, allowing for seamless operation and optimal performance.