GE Genius I-O Series Service Manual

IC660BRD025

1. Description

DC GENIUS BLOCK GMR 32PT SOURCE/SINK Block 24VDC Receive current from output field IC6 The GE Fanuc IC660BRD025 Genius Modular Redundancy Sinking Output Block is made for the Genius I/O modular redundancy output subsystem. This output block has 32 output points, built-in blocking diodes and feedback resistors on each output point, and an operating voltage range of 5 to 48 Volts DC. Technical specifications for IC660BRD025

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660BRD025**
Description	**Genius Modular Redundancy Sinking**
Application	**GMR output subsystem**
Operating	**Voltage 5 to 48 Volts DC**
Operating	**Current 0.5 to 1.0 Amp**
Max	**Inrush Current 4.0 Amps**
I/O	**Capacity 32 Points**
Location	**Genius I/O Bus**
Supported	**Configuration H-Block Output Group**
Configuration	**Genius Handheld Monitor**
Block	**Type Current Sinking Description**
The	**GE Fanuc IC660BRD025 Genius Modular Redundancy Sinking Output Block is a 32-point discrete output DC block for the GMR output subsystem which controls discrete output loads. The IC660BRD025 Output Block is used in an H-Block redundant output group configuration. The H-Block output group consists of 4 output blocks (2 source blocks and 2 sink-type blocks) and this configuration is one of the output group configurations of the GMR output subsystem, which include the T-block redundant output group, the I-block redundant output group, and 1 out of 1 diagnostic block redundant output group. I**

3. Product Information

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Series Genius I-O

Part Number IC660BRD025

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Application GMR output subsystem

Operating Voltage 5 to 48 Volts DC

Operating Current 0.5 to 1.0 Amp

Max Inrush Current 4.0 Amps

I/O Capacity 32 Points

Location Genius I/O Bus

Supported Configuration H-Block Output Group

Configuration Genius Handheld Monitor

Block Type Current Sinking Description

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The IC660BRD025 Sinking Output Block has 32 output points that are integrated with blocking diodes and feedback resistors. These diodes and feedback resistors help to simplify system the wiring and improve system reliability by preventing malfunctioning due to back-drive current. The IC660BRD025 Sinking Output Block has an operating voltage rating of 5, 12, or 24 Volts DC and an operating load current range of 0.5 Amps to 1.0 Amp. It has a maximum inrush current of 4.0 Amps and an output off-state leakage current of 20 microAmps. The IC660BRD025 Sinking Output Block is configured for the GMR mode by using the Genius I/O handheld monitor, and it is installed on a bus that is configured to match the GMR setting. Unlike the input subsystem, which performs voting with the GMR software configuration, the GMR output group performs voting by comparing the output data for each of the 32 points as received from the PLCs.