

Triconex 3601E Manual

Brand	Triconex
Product Series	Triconex
Product Type	Triple Modular Redundant (TMR), Digital Output (DO)

Description

3601E Digital Output Module Engineering Data

The 3601E is a robust AC output solution tailored for high-voltage safety loops. Operating at 115 VAC, it is a "non-commoned" module, meaning each of its 16 points is individually isolated. This architecture is critical for preventing cross-channel faults in complex Emergency Shutdown (ESD) or Fire and Gas (F&G) systems. With a significant 2A continuous current rating and a high surge tolerance, it is specifically built to handle the heavy inductive loads typical of large AC solenoid valves and motor starters.

Core System Configuration

Module Type: Triple Modular Redundant (TMR), Digital Output (DO).

Output Density: 16 points, non-commoned (individually isolated).

Color Code: Green.

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Fusing: Requires 1 per output, 3A fast-acting fuse on the Field Termination.

Electrical Operating Parameters

Nominal Voltage: 115 VAC.

Operational Voltage Range: 80 to 155 VAC.

Frequency Range: 47 to 63 Hz.

Voltage Drop: Typically less than 3V.

Leakage Specifications:

Load Leakage: 2 mA maximum @ 60 Hz.

Chassis Leakage: 4 mA maximum @ 60 Hz.

Current and Load Ratings

Maximum Continuous Current: 2A per point.

Maximum Surge Current: 12A surge per cycle.

Point Isolation: 1,500 VDC (with peak tolerance up to 2,500 VDC).

Diagnostic Monitoring

Point Status: 1 dedicated indicator for On or Off state per point.

Module Health: PASS, FAULT, and ACTIVE status indicators.

Field Side Monitoring: Dedicated LOAD/FUSE alarm indicators to detect open circuits or blown field fuses.

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