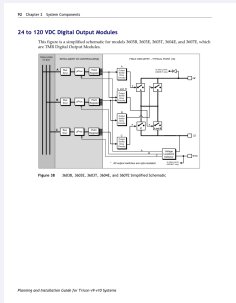


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Triconex 3604E

TMR Digital Output Module



SIGNALS	FIELD RANGE	ARCHITECTURE	SOURCE
16, non-commoned	22-45 VDC	TMR	9700077-012

Triconex 3604E provides sixteen non-commoned nominal 24 VDC digital outputs. The TMR output architecture votes the three channel commands before applying power to the connected load.

01

VERIFIED PRODUCT PARAMETERS

Output signals	16, non-commoned
Operating voltage range	22-45 VDC
Continuous current limit	2 A per point maximum
Surge current limit	10 A for 10 ms maximum
Off-state load leakage	2 mA maximum
Field termination fuse	One 2.5 A fast-acting fuse per output
Point isolation	1500 VDC minimum
Logic power	Less than 10 W
Point indication	One on/off indicator per output
Module indications	Pass, Fault, Active

Technical values were verified against Invensys 9700077-012, February 2009.

02 ADDITIONAL TECHNICAL DATA

Field alarm indication	Load/Fuse
Maximum diagnostic toggle rate	Every 100 ms plus one scan
Diagnostic pulse duration	2 ms maximum; 500 microseconds typical
Backplane on-state drop	Less than 3 VDC typical at 500 mA; <3 VDC maximum at 2 A
Inductive-load protection	Reverse diode on the I/O module

03 SYSTEM ROLE AND APPLICATIONS

The specified voltage range is 22-45 VDC with a maximum continuous output current of 2 A per point. Verify field fuses, supply to unused points, cable voltage drop and diagnostic pulses before connecting final elements.

- Drive approved DC final elements through the sixteen non-commoned outputs. Check steady current, inrush, field fuse selection and the available load voltage with the installed cable.
- Use a correctly rated relay interface when the engineered application requires contact switching. Evaluate off-state leakage and diagnostic pulses against relay dropout and response characteristics.
- Use the module field-alarm indication when diagnosing supply, load and fuse conditions. Preserve power to every output point, including unused points on non-commoned panels, as required by the manual.

04 OFFICIAL INSTALLATION FACTS

- Identify the 3604E and its sixteen non-commoned field outputs.
- Check 22-45 VDC field power and the approved termination wiring.
- Provide one 2.5 A fast-acting field fuse for every output.
- Supply all points, including unused non-commoned termination points.

05 OFFICIAL DOCUMENTATION

Invensys 9700077-012, February 2009

AMIKON PRODUCT SUPPORT

Amikon Limited | INFO@AMIKON.CN