

D5290-091

SIL3 230 Vac Relay Out Module for 10 A NE Loads

The D5290-091 is a relay module suitable for switching safety related circuits, up to SIL 3 level, for high risk industries. It provides isolation between input and output contacts. It makes available two NO contacts for Normally Energized (NE) loads, in order to disconnect the load on both supply lines, and a NC contact for service purpose. Compatibility with specific DO cards with pulse testing needs to be verified. This relay module is not suitable for low-current consumption applications (system-to-system signalling, driving LEDs, etc.).

FEATURES

- SIL 3 / SC 3 for NE loads with NE driver
- Up to 10 A functional / 16 A inrush current
- Load disconnection on both supply lines available
- Service contact available
- Input/Output isolation

ORDERING INFORMATION

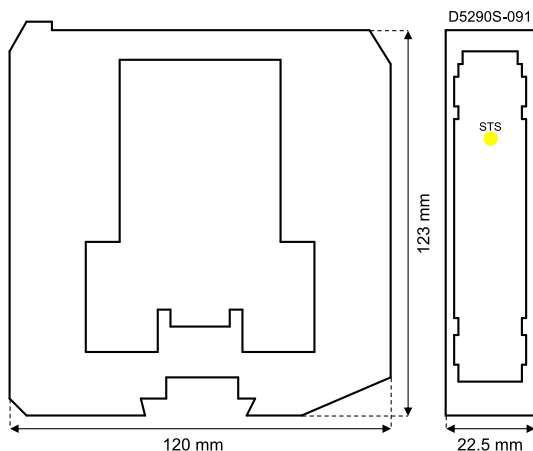
Ordering codes

D5290S-091: 1 channel

Accessories

DIN-Rail stopper MCHP196.

OVERALL DIMENSIONS



TECHNICAL DATA

Input

230 Vac nom (195 to 250 Vac).

Current consumption: 14 mA @ 230 Vac, typical.

Power dissipation: 2.5 W @ 230 Vac, typical.

Output

1 voltage free SPDT relay contact identified with outputs: Out 1 (NO contact) terminals 13-21 and Service Load Out (NC contact) terminals 13-15; 1 voltage free SPST relay contact identified with output Out 2 (NO contact) terminals 14-22. Terminals 13-21 (Out 1) and 14-22 (Out 2) are open when relay is de-energized, closed in energized relay condition. Service load output (not SIL) at terminals 13-15 is normally close when relay is de-energized, open in energized relay condition.

Contact material: Ag Alloy (Cd free).

Contact rating: 10 A 250 Vac 2500 VA, 10 A 250 Vdc 300 W (resistive load).

Contact inrush current: 16 A @ 24 Vdc, 250 Vac.

DC and AC load breaking capacity: refer to Instruction Manual.

Mechanical / electrical life: 5 * 10⁶ / 5 * 10⁴ operation, typical.

Operate / release time: 8 ms / 4 ms, typical.

Isolation

Input/All Outs 2.5 kV; Out 1/Out 2 500 V.

Environmental conditions

Operating temperature: temperature limits -40 to +60 °C.

Storage temperature: temperature limits -45 to +80 °C.

Mounting

DIN-Rail 35 mm.

Weight: about 165 g.

Connection: by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm² (13 AWG).

Dimensions: Width 22.5 mm, Depth 123 mm, Height 120 mm.

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.

