

D5290-084

SIL3 110 Vdc Relay Out Module for 5 A NE/ND Loads

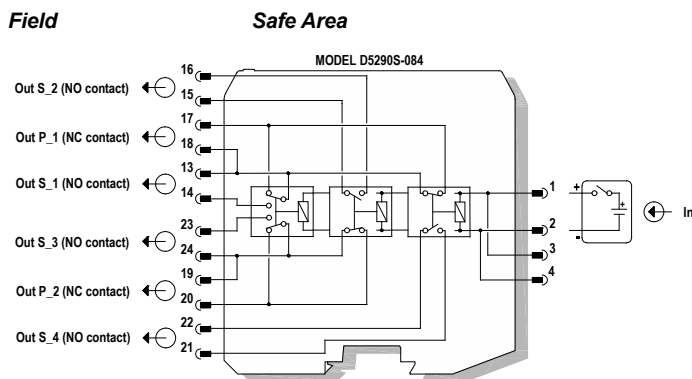
The D5290-084 is a relay module suitable for switching safety related circuits, up to SIL 3 level, for high risk industries. It provides isolation between input and output contacts. It makes available up to four NO contacts and two NC contacts, which can be externally connected for multiple Normally Energized (NE) or Normally De-energized (ND) loads, with single or both supply lines disconnection, and additional service loads.

FEATURES

- SIL 3 / SC 3 for NE/ND loads with NE driver
- Up to 5 A functional / 8 A inrush current
- Load disconnection on both supply lines available
- Service contact available
- Multiple contacts (up to 4 NE or 2 ND loads)
- Input/Output isolation

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.



TECHNICAL DATA

Input

110 Vdc nom (100 to 125 Vdc), reverse polarity protected. Relay coils are internally protected with suppressor diodes.

Current consumption: 15 mA @ 110 Vdc, typical.

Power dissipation: 1.7 W @ 110 Vdc, typical.

Output

2 voltage free SPDT (= NO contact + parallel of 2 NC contacts) relay contacts identified with outputs: Out S_1 & Out P_1 and Out S_3 & Out P_2; 2 voltage free SPST (NO) relay contacts identified with: Out S_2 and Out S_4. Terminals 13-14 (Out S_1), 15-16 (Out S_2), 21-22 (Out S_4) and 23-24 (Out S_3) are: open when relay is de-energized, closed in energized relay condition. Terminals 17-18 (Out P_1) and 19-20 (Out P_2) are: closed when relay is de-energized, open in energized relay condition.

Contact material: Ag Alloy (Cd free).

Contact rating: 5 A 250 Vac 1250 VA, 5 A 250 Vdc 175 W (resistive load).

Contact inrush current: 8 A @ 30 Vdc, 250 Vac.

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

Mechanical / electrical life: 10 * 10⁶ / 5 * 10⁴ operation, typical.

Operate / release time: 12 ms / 8 ms, typical.

Isolation

Input / All Outputs: 2.5 kV; Out S_1 & Out P_1 / Out S_3 & Out P_2, Out S_2, Out S_4: 500 V; Out S_3 & Out P_2 / Out S_2, Out S_4: 500 V; Out S_2 / Out S_4: 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 145 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.

ORDERING INFORMATION

D5290S-084: 1 channel

Accessories

DIN-Rail stopper MCHP196.