

Class I, Division 2 PLC-RELAYS

SPDT Electromechanical Relays & Opto-couplers

Data Sheet 1477F

June 2006

Features

- Listed for Class I, Division 2
- Only 6.2 mm (.244 in.) wide
- DIN-rail mountable
- Polarity protected (DC versions)
- Inductive kickback protection
- LED status indication
- Time saving plug-in jumper system
- Flexible, modular design

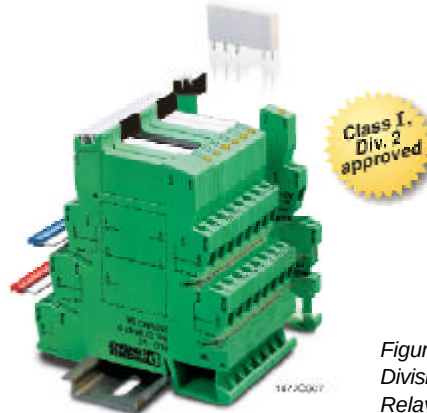


Figure 1. PLC-RSC Class I, Division 2 Electromechanical Relays and Opto-couplers

Description

The Class I, Division 2 PLC-Relays are space saving, pluggable, compact interface relays designed for use in Class I, Division 2 applications. The numerous voltage economical adaptability to your control system.

These devices are UL/cUL Listed as process control equipment for use in Class I, Zone 2 and Class I, Division 2 Hazardous Locations.

This family of PLC-Relays can help eliminate the need for expensive explosion proof/purged enclosures and further expands Phoenix Contact's role in the hazardous location control industry.

Note:

All electromechanical relays mentioned above are SPDT. For specifications on the Class I, Division 2, 24 V dc, DPDT PLC Relay, please see data sheet 2051A for P/N 29 80 46 1.

Ordering Information

Description	Type	Part Number
Electromechanical (Screw Terminals)	PLC-RSC-12DC/21 C1D2	56 06 33 1
	PLC-RSC-24DC/21 C1D2	56 03 15 4
	PLC-RSC-120UC/21 C1D2	56 03 15 7
Electromechanical (Spring Terminals)	PLC-RSP-12DC/21 C1D2	56 06 33 2
	PLC-RSP-24DC/21 AEX	56 03 68 4
	PLC-RSP-120UC/21 AEX	56 03 68 3
Opto-couplers (Screw Terminals)	PLC-OSC-24DC/24DC/2 C1D2	56 03 26 0
	PLC-OSC-24DC/48DC/100C1D2	56 03 26 1
	PLC-OSC-120UC/24DC/2 C1D2	56 03 26 2
	PLC-OSC-120UC/-48DC/100 C1D2	56 03 26 3
Power distribution block	PLC-ESK GY	29 66 50 8
Partition plate	PLC-ATP BK	29 66 84 1
2 position snap-in jumper (Red)	FBST 6-PLC RD	29 66 23 6
2 position snap-in jumper (Blue)	FBST 6-PLC BU	29 66 81 2
2 position snap-in jumper (Grey)	FBST 6-PLC GY	29 66 82 5
19" snap-in jumper (Red)	FBST-500-PLC RD	29 66 78 6
19" snap-in jumper (Blue)	FBST-500-PLC BU	29 66 69 2
19" snap-in jumper (Grey)	FBST-500-PLC GY	29 66 83 8
19" snap-in jumper (Brown)	FBST-500-PLC BN	29 67 97 6
Marker strip, 10-section, un-printed	ZB:10 UNPRINTED	10 53 00 1

Class I, Division 2 PLC-RELAYS

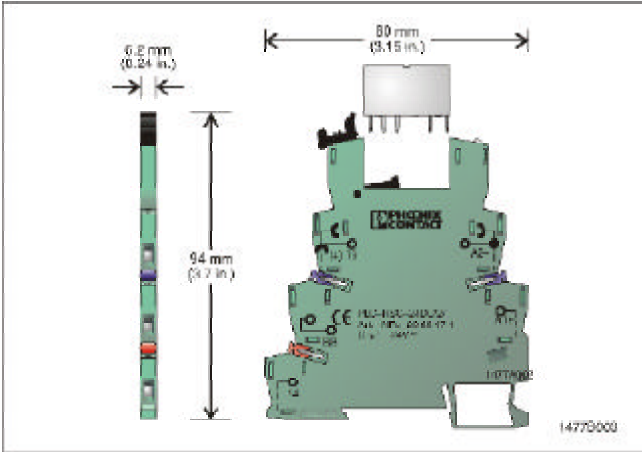


Figure 2. PLC-RELAYS Dimensions

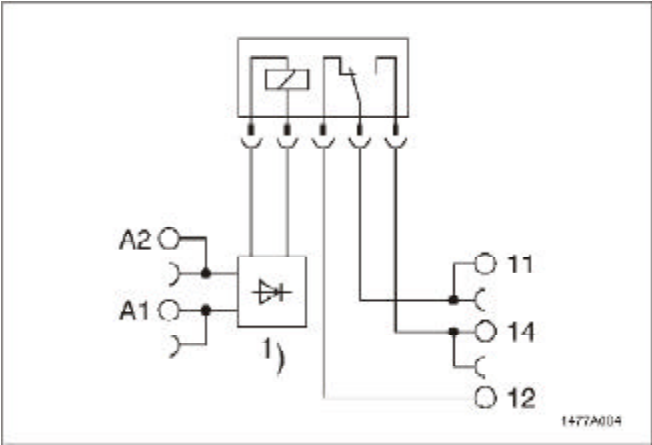


Figure 3. Mechanical Relay SPDT Terminal Assignments

Table 1. PLC-RELAYS General Specifications

Technical Data	
Input Data	
Input coil voltages	24 V dc, 120 V ac
Output Data	
Limiting continuous current	6 A, 100 mA, 2 A
General Data	
Maximum wire size	26-14 AWG
Ambient temperature range	-20°C up to +60°C
Mechanical life	10 ⁷ cycles
Dimensions	
Height	3.7 in. (94 mm)
Width	0.24 in. (6.2 mm)
Depth	3.15 in. (80 mm)

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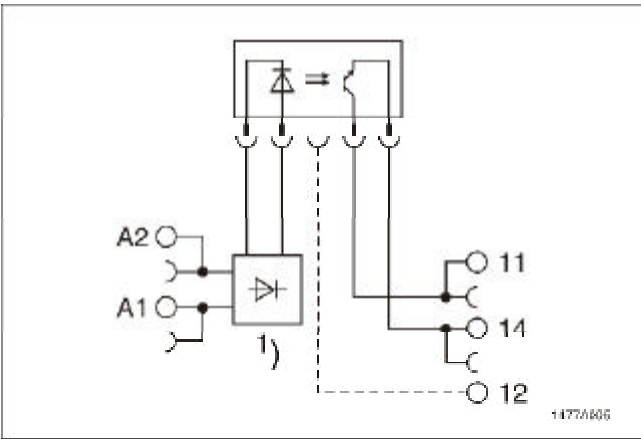


Figure 4. Solid State Relay Terminal Assignments

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