

Relay Card Type RLC 16

FEATURES

- Relay card with screw terminal strip
- 16 relays with change-over contacts
- Relay driver inverter logic (jumper selectable)
- Low contact resistance
- High through power
- Low capacitance
- Live insertion / removal of cards possible
- Conforms to EC standards for EMC



DESCRIPTION

The RLC 16 Relay Card is designed for use in Vibro-Meter's VM 600 series of machinery protection systems and condition and performance monitoring systems. It is an optional card, for use when the 4 relays on the IOC 4T input/output card are insufficient for the application and additional relays are required.

The RLC 16 is installed in the rear of the ABE 04X rack and connects directly to the rack backplane via a single connector.

The RLC 16 contains 16 relays with change-over contacts. Each relay is associated with 3 terminals on a screw terminal strip accessible at the rear of the ABE 04X rack.

The relays are controlled by open-collector drivers under software control. Jumpers on the RLC 16 card allow the selection of relay normally energized (NE) or normally de-energized (NDE).

SPECIFICATIONS

RELAY CHARACTERISTICS

Make : Siemens
 Type : PE014005
 Contact arrangement : 1 x (NO + NC) contacts/
 relay
 Coil voltage : 5 V_{DC}
 Coil resistance : 125 Ω ± 10%
 Nominal current : 0.35 A_{DC} / 5 A_{AC}
 Nominal voltage : 300 V_{DC} / 250 V_{AC}
 Max. break power without contact protection : 100 W (1250 VA)
 Pick-up / drop-out / bounce time (contact NO) : Typically 5 / 2 / 1 ms
 Test voltage coil - contact : 4000 V_{AC}
 Test voltage open contact : 1000 V_{AC}
 Mechanical life : 30 x 10⁶ operations
 Electrical life : 10⁵ operations

RELAY PCB ASSEMBLY

Presentation : 16 relay PCB
 Relay state : Normally energized / normally de-energized (jumper selectable)
 Power supply : +5 V_{DC}
 Consumption : 40 mA x 16
 Connections : Screw terminals
 Mounting : Connects to back plane from rear of rack via a connector
 Temperature range : See above relay characteristics
 Humidity : ≤ 95% (RH non-condensing)

PHYSICAL

Height : 6 U (262 mm, 10.31 in)
 Width : 20.1 mm
 Depth : 125 mm
 Weight : 0.3 kg

ENVIRONMENTAL

Operating
 • *Temperature* : -25°C to +65°C (-13°F to +149°F)
 • *Humidity* : 0 to 90% non-condensing
 Storage
 • *Temperature* : -40°C to +85°C (-40°F to +185°F)
 • *Humidity* : 0 to 95% non-condensing
 Vibrations and shock : See general rack specifications

ORDERING INFORMATION

To order please specify :

Type	Designation	Ordering Number
RLC 16	Relay Card	
	- Standard version	200-570-000-1Hh
	- Separate circuits in accordance with IEC/CEI 60255-5 standard	200-570-000-2Hh

Note : "Hh" represents the hardware version. "H" increments for major modifications that can affect product interchangeability. "h" increments for minor modifications that have no effect on interchangeability.



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