

## 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<sub>DC</sub>  
 Coil resistance : 125 Ω ± 10%  
 Nominal current : 0.35 A<sub>DC</sub> / 5 A<sub>AC</sub>  
 Nominal voltage : 300 V<sub>DC</sub> / 250 V<sub>AC</sub>  
 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<sub>AC</sub>  
 Test voltage open contact : 1000 V<sub>AC</sub>  
 Mechanical life : 30 x 10<sup>6</sup> operations  
 Electrical life : 10<sup>5</sup> operations

**RELAY PCB ASSEMBLY**

Presentation : 16 relay PCB  
 Relay state : Normally energized / normally de-energized (jumper selectable)  
 Power supply : +5 V<sub>DC</sub>  
 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.



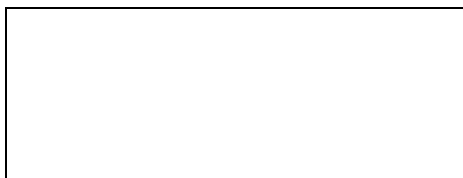
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