



Reference: CM-MPN.52S Code: 1SVR750487R8300

CM-MPN.52S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-

L3=3x350-580VAC

Buy it at Electric Automation Network



The CM-MPN.52S is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 350-580 V AC 50/60 Hz and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. This relay monitors all phase parameters such as over/undervoltage, phase unbalance and phase failure. The corresponding threshold values are adjustable. The CM-MPN.52S also offers selection of phase sequence monitoring, automatic phase sequence correction as well as an ON or OFF tripping delay. The output contacts can be configured as 1x2 c/o (SPDT) contacts (common signal) or 2x1 c/o (SPDT) contact (separate signal for over- and undervoltage thresholds) operation. The tripping delay is adjustable over a range of instantaneous to 30 s (0, 0.1-30 s). A sealable transparent cover for protection against unauthorized changes is available as accessory. The device offers screw connection technology with double-chamber cage connection terminals.

Ordering

| EAN: | 4016779851916 |
|-------------------------|---------------|
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |

Container Information

| Package Level 1 Units: | 1 piece |
|------------------------|---------|
| Package Level 1 Width: | 97 mm |

| Package Level 1 Height: | 109 mm |
|-------------------------------|----------|
| Package Level 1 Length: | 52.5 mm |
| Package Level 1 Gross Weight: | 0.255 kg |

Dimensions

| Product Net Width: | 45 mm |
|---------------------|----------|
| Product Net Depth: | 104.8 mm |
| Product Net Height: | 85.6 mm |
| Product Net Weight: | 0.23 kg |

Technical

| Function: | Phase failure detection Phase sequence monitoring Automatic phase sequence correction Over- and undervoltage monitoring Phase unbalance detection |
|--|---|
| Standards: | IEC/EN 60255-1 EN 50178 |
| Measuring Range: | 3x350 580 V AC |
| Rated Control Supply Voltage (U _s): | 3 x 350 580 V AC |
| Output: | 2 x 1 c/o or 1 x 2 c/o contacts, configurable |
| Time Range: | 200 ms start-up delay 0 s or 0.1-30 s tripping delay (ON or OFF) |
| Terminal Type: | Screw Terminals |
| Rated Operational Current AC-12 (I _e): | (230 V) 4 A |
| Rated Operational Current AC-15 (I _e): | (230 V) 3 A |
| Rated Operational Current DC-12 (I _e): | (24 V) 4 A |
| Rated Operational Current DC-13 (I _e): | (24 V) 2 A |
| Minimum Switching Capacity: | 24 V 10 mA |
| Rated Insulation Voltage (U _i): | Input Circuit / Output Circuit 1000 V Output Circuit 1 / Output Circuit 2 300 V |
| Rated Impulse Withstand Voltage (U _{imp}): | Input Circuit 8 kV Output Circuit 4 kV |
| Degree of Protection: | Housing IP50 Terminals IP20 |
| Overvoltage Category: | III |
| Pollution Degree: | 3 |
| Short-Circuit Protective Devices: | Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A |
| Electrical Durability: | AC-12 100000 cycle |
| Mechanical Durability: | 30000000 cycle |

| Connecting Capacity: | Flexible with Ferrule 1x 0.5 2.5 mm ² Flexible with Ferrule 2x 0.5 1.5 mm ² Flexible with Insulated Ferrule 1x 0.5 2.5 mm ² Flexible with Insulated Ferrule 2x 0.5 1.5 mm ² Flexible 1x 0.5 2.5 mm ² Flexible 2x 0.5 1.5 mm ² Rigid 1x 0.5 4 mm ² Rigid 2x 0.5 2.5 mm ² |
|------------------------|---|
| Tightening Torque: | 0.6 0.8 N·m |
| Wire Stripping Length: | 8 mm |
| Mounting Position: | Any |
| Mounting on DIN Rail: | TH35-15 (35 \times 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 \times 7.5 mm Mounting Rail) acc. to IEC 60715 |

Environmental

| Ambient Air Temperature: | Operation -25 +60 °C Storage -40 +85 °C |
|--------------------------|--|
| RoHS Status: | Following EU Directive 2011/65/EC |

Technical UL/CSA

| Maximum Operating Voltage UL/CSA: | Output Circuit 300 V AC |
|-----------------------------------|--|
| Contact Rating UL/CSA: | B300 |
| Connecting Capacity UL/CSA: | Flexible 1x 18 14 AWG Flexible 2x 18 16 AWG Rigid 1x 20 12 AWG Rigid 2x 20 14 AWG |
| Tightening Torque UL/CSA: | 7.08 in·lb |

Certificates and Declarations (Document Number)

| CB Certificate: | CB_DK-27946-UL |
|---------------------------------|---------------------------|
| CCC Certificate: | CCC_2009010303326655 |
| cULus Certificate: | cULus508_20120829-E140448 |
| Declaration of Conformity - CE: | 1SAD938500-0203 |
| EAC Certificate: | EAC_RU_C-DE.ME77.B.01012 |
| GL Certificate: | GL_37695-12HH |
| RMRS Certificate: | RMRS_12.04009.250 |
| RoHS Information: | 1SAA981057-4402 |

Classifications

| Object Classification Code: | В |
|-----------------------------|-----------------------------------|
| E-nummer: | 3860592 |
| ETIM 4: | EC001441 - Phase monitoring relay |

| ETIM 5: | EC001441 - Phase monitoring relay |
|---------|-----------------------------------|
| eClass: | 7.0 27371803 |