



Reference: CM-MSS.51S Code: 1SVR730712R1300

CM-MSS.51S Therm. motor protec. relay

2x1c/o, 24-240VAC/DC

Buy it at Electric Automation Network



The CM-MSS.51S belongs to the CM thermistor motor protection relay range. It operates with a rated control supply voltage of 24 - 240 V AC / DC and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. It features two sensor circuit to monitor PTC temperature sensors (single or accumulative evaluation, configurable) and works according to the closed-circuit principle. The sensor circuits of this CM-MSS.51S are short-circuit (configurable), as well as interrupted-wire monitored and can be reset automatically, manually or remotely after the failure has been removed. This protection relay is certified according to the ATEX directive 49/9/EC and is equipped with a reset / test button. The non-volatile fault storage, the short circuit detection and the accumulative evaluation can be enabled/disabled via DIP switches. 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: | 4013614496660 |
|-------------------------|---------------|
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |

Dimensions

| Product Net Width: | 22.5 mm |
|---------------------|---------|
| Product Net Height: | 85.6 mm |

| Product Net Depth: | 103.7 mm |
|---------------------|----------|
| Product Net Weight: | 0.145 kg |

Container Information

| Package Level 1 Units: | 1 piece |
|-------------------------------|----------|
| Package Level 1 Width: | 97 mm |
| Package Level 1 Height: | 109 mm |
| Package Level 1 Length: | 30 mm |
| Package Level 1 Gross Weight: | 0.172 kg |

Technical

| Function: | 2 sensor circuits Short-circuit detection, configurable Non-volatile fault storage, configurable Single or accumulative evalutation, configurable Dynamic interrupted wire detection Auto, manual or remote reset ATEX approved |
|--|---|
| Rated Control Supply Voltage (U _s): | 24 240 V AC/DC |
| Output: | 2 x 1 c/o or 1 x 2 c/o contacts, configurable |
| 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): | 300 V Measuring Circuit / Output Circuit 300 V Output Circuit 1 / Output Circuit 2 300 V Supply Circuit / Measuring Circuit 300 V Supply Circuit / Output Circuit 300 V |
| Rated Impulse Withstand Voltage (U _{imp}): | Output Circuit 1 / Output Circuit 2 4 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 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 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| Standards: | IEC/EN 60947-8 UL 508 CSA 22.2 No. 14 |

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)

| ATEX Certificate: | EC Type Examination Certificate_TPS_14_ATEX_44254_005_X |
|---------------------------------|---|
| CB Certificate: | CB_DK-40837-UL |
| CCC Certificate: | CCC_2005010303165479 |
| cULus Certificate: | cULus508_20140912-E140448 |
| Declaration of Conformity - CE: | 1SAD938500-0220 |
| EAC Certificate: | EAC_RU_C-DE.ME77.B.01825 |
| GL Certificate: | GL_13759-14HH |
| RoHS Information: | 1SAA981070-4401 |

Classifications

| Object Classification Code: | В |
|-----------------------------|---|
| ETIM 5: | EC001446 - Temperature monitoring relay |