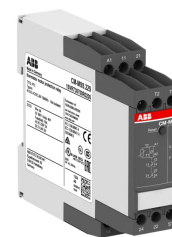


# CM-MSS.22S



CM-MSS.22S Therm. motor protec. relay 2c/o, 24VAC/DC

## General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | CM-MSS.22S   |
| Product ID            | 1SVR730700R0200  |
| EAN                   | 4013614496714  |
| Catalog Description   | CM-MSS.22S Therm. motor protec. relay 2c/o, 24VAC/DC   |
| Long Description      | The CM-MSS.22S belongs to the CM-MSS thermistor motor protection relay range. It operates with a rated control supply voltage of 24 V AC/DC and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. It features one sensor circuit to monitor PTC temperature sensors and works according to the closed-circuit principle. The relay can be reset automatically, manually or remotely after the failure has been removed. 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                    | 4013614496714 |
| 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 / Length | 103.7 mm |
| Product Net Weight         | 0.132 kg |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 1 piece       |
| Package Level 1 Width          | 97 mm         |
| Package Level 1 Height         | 109 mm        |
| Package Level 1 Depth / Length | 30 mm         |
| Package Level 1 Gross Weight   | 0.155 kg      |
| Package Level 1 EAN            | 4013614496714 |

## Technical

|          |  |
|----------|--|
| Function | 1 sensor circuit<br>Auto, manual or remote reset |
|----------|--|

|  |  |
|--|--|
| Rated Control Supply Voltage ( $U_s$ )           | 24 V AC/DC   |
| Output   | 2 c/o (SPDT) contacts  |
| Terminal Type                                    | Screw Terminals  |
| Rated Operational Current AC-12 ( $I_{\theta}$ ) | (230 V) 4 A  |
| Rated Operational Current AC-15 ( $I_{\theta}$ ) | (230 V) 3 A  |
| Rated Operational Current DC-12 ( $I_{\theta}$ ) | (24 V) 4 A   |
| Rated Operational Current DC-13 ( $I_{\theta}$ ) | (24 V) 2 A   |
| Minimum Switching Capacity                       | 24 V<br>10 mA  |
| Rated Insulation Voltage ( $U_i$ )               | Measuring Circuit / Output Circuit 300 V<br>Output Circuit 1 / Output Circuit 2 300 V<br>Supply Circuit / Output Circuit 300 V                                   |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )    | Output Circuit 1 / Output Circuit 2 4 kV<br>Output Circuit 4 kV  |
| Degree of Protection                             | Housing IP50<br>Terminals IP20   |
| Overvoltage Category                             | III  |
| Pollution Degree                                 | 3  |
| Short-Circuit Protective Devices                 | Output Circuit NC - F Type Fuses 10 A<br>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 <sup>2</sup><br>Flexible 2x 0.5 ... 1.5 mm <sup>2</sup><br>Rigid 1x 0.5 ... 4 mm <sup>2</sup><br>Rigid 2x 0.5 ... 2.5 mm <sup>2</sup> |
| 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<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715   |
| Standards  | CAN/CSA C22.2 No.14<br>EN 50581<br>IEC/EN 60947-5-1<br>IEC/EN 60947-8<br>UL 508  |

## Environmental

|                         |  |
|-------------------------|--|
| Ambient Air Temperature | Operation -25 ... +60 °C<br>Storage -40 ... +85 °C |
| RoHS Status             | Following EU Directive 2011/65/EU                  |

## 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<br>Flexible 2x 18-16 AWG<br>Rigid 1x 20-12 AWG<br>Rigid 2x 20-14 AWG |
| Tightening Torque UL/CSA         | 7.08 in·lb   |

## Certificates and Declarations (Document Number)

|                                   |                           |
|-----------------------------------|---------------------------|
| CB Certificate                    | CB_DK-40837-UL            |
| CCC Certificate                   | CCC_2005010303165479      |
| cULus Certificate                 | cULus508_20140912-E140448 |
| Data Sheet, Technical Information | 2CDC112220D0201           |
| Declaration of Conformity - CE    | 1SVD981006-0001           |
| EAC Certificate                   | EAC_RU_C-DE.ME77.B.01825  |
| Environmental Information         | 1SAA981024-2401           |
| GL Certificate                    | GL_13759-14HH             |
| Instructions and Manuals          | 1SVC730630M0000           |
| RMRS Certificate                  | RMRS_1740020250           |
| RoHS Information                  | 1SVD981006-0001           |

## Classifications

|                            |   |
|----------------------------|---|
| Object Classification Code | B   |
| ETIM 5                     | EC002568 - Temperature monitor (motor protection) |
| ETIM 6                     | EC002568 - Relay for thermistor protection (PTC)  |
| ETIM 7                     | EC002568 - Relay for thermistor protection (PTC)  |
| eClass                     | 7.0 27371503                                      |
| E-Number (Sweden)          | 3860724   |

## Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Thermistor Motor Protection Relays

