

PRODUCT-DETAILS

CM-MSS.51S

CM-MSS.51S Therm. motor protec. relay
2x1c/o, 24-240VAC/DC



General Information

Extended Product Type	CM-MSS.51S
Product ID	1SVR730712R1300
EAN	4013614496660
Catalog Description	CM-MSS.51S Therm. motor protec. relay 2x1c/o, 24-240VAC/DC

Long Description

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 94/9/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 / Length	103.7 mm
Product Net Weight	0.145 kg

Container Information

Package Level 1 Units	box 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	0.172 kg
Package Level 1 EAN	4013614496660

Technical

Function	2 sensor circuits Short-circuit detection, configurable Non-volatile fault storage, configurable Single or accumulative evaluation, 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)	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

CAN/CSA C22.2 No.14
EN 50495
EN 50581
IEC/EN 60079-7
IEC/EN 60947-5-1
IEC/EN 60947-8
UL 508**Environmental**Ambient Air
TemperatureOperation -25 ... +60 °C
Storage -40 ... +85 °C

RoHS Status

Following EU Directive 2011/65/EU

Technical UL/CSAMaximum Operating
Voltage UL/CSA

Output Circuit 300 V AC

Contact Rating UL/CSA

B300

Connecting Capacity
UL/CSAFlexible 1x 18-14 AWG
Flexible 2x 18-16 AWG
Rigid 1x 20-12 AWG
Rigid 2x 20-14 AWGTightening Torque
UL/CSA

7.08 in-lb

Certificates and Declarations (Document Number)

ATEX Certificate

EU Type Examination Certificate_TPS_18_ATEX_044254_0018_X

CB Certificate

CB_DK-40837-UL

CCC Certificate

CCC_2005010303165479

CQC Certificate

CQC2005010303165479

cULus Certificate

cULus508_20140912-E140448

Data Sheet, Technical
Information

2CDC112214D0201

Declaration of
Conformity - CCC

2020980303000194

Declaration of
Conformity - CE

1SVD981007

DNV GL Certificate

DNVGL_TAE00003W4

EAC Certificate

EAC_RU_C-DE.ME77.B.01825

Environmental
Information

1SAA981024-2401

GL Certificate

GL_13759-14HH

Instructions and
Manuals

1SVC730670M0000

Instructions and
Manuals (Part 2)

1SVC730640M9000

RMRS Certificate

RMRS_1740020250

RoHS Information

1SVD981007

ClassificationsObject 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	V11.0 : 27371503
E-Number (Finland)	2712514
E-Number (Sweden)	3860777

Categories

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

