

# CM-MSS.31S



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

## General Information

<b>Extended Product Type:</b>	CM-MSS.31S
<b>Product ID:</b>	1SVR730712R1400
<b>EAN:</b>	4013614496653
<b>Catalog Description:</b>	CM-MSS.31S Therm. motor protec. relay 1n/o+1n/c, 24-240VAC/DC
<b>Long Description:</b>	The CM-MSS.31S belongs to the CM-MSS thermistor motor protection relay range. It operates with a rated control supply voltage of 24 - 240 V AC / DC and has a 1 n/c + 1 n/o (SPD T) 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 sensor circuit of the CM-MSS.31S is short-circuit, as well as interrupted-wire monitored and the relay 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. 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.

## Additional Information

<b>ATEX Certificate:</b>	EC Type Examination Certificate_TPS_14_ATEX_44254_005_X
<b>Ambient Air Temperature:</b>	Operation -25 ... +60 °C Storage -40 ... +85 °C
<b>CB Certificate:</b>	CB_DK-40837-UL
<b>CCC Certificate:</b>	CCC_2005010303165479
<b>Channel Configuration:</b>	Short-circuit detection, Dynamic interrupted wire detection
<b>Connecting Capacity:</b>	Flexible 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 1x 0.5 ... 4 mm <sup>2</sup> Rigid 2x 0.5 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity UL/CSA:</b>	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
<b>Contact Rating UL/CSA:</b>	B300
<b>Country of Origin:</b>	Germany (DE)
<b>Customs Tariff Number:</b>	85364900
<b>Data Sheet, Technical Information:</b>	2CDC112217D0201
<b>Declaration of Conformity - CE:</b>	1SVD981007-0000
<b>Degree of Protection:</b>	Housing IP50 Terminals IP20
<b>E-nummer:</b>	3860728
<b>EAC Certificate:</b>	EAC_RU_C-DE.ME77.B.01825
<b>EAN:</b>	4013614496653
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Protection devices / Overload
<b>ETIM 5:</b>	EC001446 - Temperature monitoring relay
<b>ETIM 6:</b>	EC001446 - Temperature monitoring relay
<b>Electrical Durability:</b>	AC-12 100000 cycle
<b>Environmental Information:</b>	1SAA981024-2401
<b>Fault Reset:</b>	Automatic Manual Remote
<b>Function:</b>	1 sensor circuit

	Short-circuit detection Non-volatile fault storage Dynamic interrupted wire detection Auto, manual or remote reset ATEX approved
<b>GL Certificate:</b>	GL_13759-14HH
<b>IIT Publishing Status:</b>	Level 0 - Information enabled
<b>Instructions and Manuals:</b>	1SVC730660M0000
<b>Instructions and Manuals (Part 2):</b>	1SVC730640M9000
<b>Invoice Description:</b>	CM-MSS.31S Therm. motor protec. relay 1n/o+1n/c, 24-240VAC/DC
<b>Maximum Operating Voltage UL/CSA:</b>	Output Circuit 300 V AC
<b>Mechanical Durability:</b>	30000000 cycle
<b>Minimum Order Quantity:</b>	1 piece
<b>Minimum Switching Capacity:</b>	24 V 10 mA
<b>Mounting Position:</b>	Any
<b>Mounting on DIN Rail:</b>	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
<b>Non-Volatile Fault Storage:</b>	No
<b>Number of Input Channels:</b>	1
<b>Object Classification Code:</b>	B
<b>Output:</b>	1 n/o + 1 n/c contact
<b>Overvoltage Category:</b>	III
<b>Package Level 1 Gross Weight:</b>	0.154 kg
<b>Package Level 1 Height:</b>	109 mm
<b>Package Level 1 Length:</b>	30 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	97 mm
<b>Pollution Degree:</b>	3
<b>Power Loss:</b>	Approximately 2 W
<b>Product Main Type:</b>	CM-MSS
<b>Product Name:</b>	Thermistor Motor Protection Relays
<b>Product Net Depth:</b>	103.7 mm
<b>Product Net Height:</b>	85.6 mm
<b>Product Net Weight:</b>	0.128 kg
<b>Product Net Width:</b>	22.5 mm
<b>Rated Control Supply Voltage (U<sub>s</sub>):</b>	24 ... 240 V AC/DC
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Output Circuit 1 / Output Circuit 2 4 kV Output Circuit 4 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	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
<b>Rated Operational Current AC-12 (I<sub>e</sub>):</b>	(230 V) 4 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(230 V) 3 A
<b>Rated Operational Current DC-12 (I<sub>e</sub>):</b>	(24 V) 4 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(24 V) 2 A
<b>Regulatory Compliance Mark (RCM):</b>	Yes
<b>RoHS Date:</b>	1146
<b>RoHS Information:</b>	1SVD981001-4400
<b>RoHS Status:</b>	Following EU Directive 2011/65/EC

<b>Selling Unit of Measure:</b>	piece
<b>Short-Circuit Protective Devices:</b>	Output Circuit NC - F Type Fuses 10 A Output Circuit NO - F Type Fuses 10 A
<b>Standards:</b>	IEC/EN 60947-5-1 IEC/EN 60947-8 IEC/EN 60079-7 EN 50495 UL 508 CAN/CSA C22.2 No.14
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	0.6 ... 0.8 N·m
<b>Tightening Torque UL/CSA:</b>	7.08 in·lb
<b>Wire Stripping Length:</b>	8 mm
<b>cULus Certificate:</b>	cULus508_20140912-E140448
<b>eClass:</b>	7.0 27371810
<b>Functional Testing Capability:</b>	Test Button

