



PRODUCT-DETAILS

# CM-MSS.13S

## CM-MSS.13S Therm. motor protec. relay 1c/o, 110-130VAC/220-240VAC



### General Information

Extended Product Type	CM-MSS.13S
Product ID	1SVR730700R2100
EAN	4013614496707
Catalog Description	CM-MSS.13S Therm. motor protec. relay 1c/o, 110-130VAC/220-240VAC
Long Description	The CM-MSS.13S belongs to the CM-MSS thermistor motor protection relay range. It operates with a rated control supply voltage of 110-130 V AC and 220-240 V AC and has a 1 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 will be reset automatically 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	4013614496707
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Popular Downloads

Data Sheet, Technical Information	2CDC112219D0201
Instructions and Manuals	1SVC730700M1000 1SVC730700M0000
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.155 kg

## Technical

Function	1 sensor circuit Auto reset
Rated Control Supply Voltage (U <sub>s</sub> )	110 ... 130 V AC 220 ... 240 V AC
Rated Operational Voltage	Auxiliary Circuit 250 V AC
Rated Frequency (f)	Supply Circuit 50/60 Hz
Output	1 c/o (SPDT) contact
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I <sub>e</sub> )	(230 V) 4 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(230 V) 3 A
Rated Operational Current DC-12 (I <sub>e</sub> )	(24 V) 4 A
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Output Circuit 1 / Output Circuit 2 4 kV Output Circuit 4 kV
Rated Insulation Voltage (U <sub>i</sub> )	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
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 <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>
Tightening Torque	0.6 ... 0.8 N·m Auxiliary Circuit 1 ... 1.2 N·m

	Main Circuit 2.5 ... 2.7 N-m
Wire Stripping Length	8 mm Auxiliary Circuit 9 mm Main Circuit 12 mm
Recommended Screw Driver	0.8 x 4 4.5 Pozidriv 1
Mounting Position	1 ... 6
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 IEC/EN 63000 IEC/EN 60947-5-1 IEC/EN 60947-8 UL 508

### Technical UL/CSA

Maximum Operating Voltage UL/CSA	Output Circuit 300 V AC
Contact Rating UL/CSA	(NC:) Q600 (NO:) Q600 (NC:) B600 (NO:) D300 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
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 14-6 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-12 AWG
Pilot Duty UL/CSA	B300 NC B600 NC Q600 NO D300 NO Q600
Flammability According to UL94	V-0

### Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

### Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Information	1SVD981001-4401
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006536

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### Circular Value

End of Life Instructions	1SAC200290H0001
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### Certificates and Declarations

CB Certificate	CB_DK-40837-UL
CCC Certificate	CCC_2005010303165479
CQC Certificate	CQC2005010303165479
cULus Certificate	cULus508_20140912-E140448
Declaration of Conformity - CCC	2020980303000194
Declaration of Conformity - CE	1SVD981006
Declaration of Conformity - UKCA	1SVD981006-10
DNV GL Certificate	DNVGL_TAE00003W4

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### Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	97 mm
Package Level 1 Depth / Length	30 mm
Package Level 1 Height	109 mm
Package Level 1 Gross Weight	0.179 kg
Package Level 1 EAN	4013614496707

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### Classifications

Object Classification Code	B
ETIM 7	EC002568 - Relay for thermistor protection (PTC)
ETIM 8	EC002568 - Relay for thermistor protection (PTC)
ETIM 9	EC002568 - Relay for thermistor protection (PTC)
eClass	V11.0 : 27371503
UNSPSC	39122331
E-Number (Finland)	2712397
E-Number (Sweden)	3860720

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## Categories

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



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