



 PRODUCT-DETAILS

CM-MSS.41S

CM-MSS.41S Therm. motor protec. relay 2c/o, 24-240VAC/DC



General Information

Extended Product Type	CM-MSS.41S
Product ID	1SVR730712R1200
EAN	4013614496677
Catalog Description	CM-MSS.41S Therm. motor protec. relay 2c/o, 24-240VAC/DC

Long Description	<p>The CM-MSS.41S 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 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 sensor circuit of this CM-MSS.41S is 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 and the short circuit detection 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.</p>
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Ordering

EAN	4013614496677
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC112216D0201
Instructions and Manuals	1SVC730700M1000 1SVC730700M0000
Ex Operating Instructions	1SVC730640M9000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132589 EPLAN

Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.141 kg

Technical

Function	1 sensor circuit Auto, manual or remote reset ATEX approved Dynamic interrupted wire detection Short-circuit detection, configurable Non-volatile fault storage, configurable
Rated Control Supply Voltage (U_s)	24 ... 240 V AC/DC
Rated Operational Voltage	Auxiliary Circuit 250 V AC
Rated Frequency (f)	Supply Circuit 15 ... 400 Hz
Output	2 c/o (SPDT) contacts
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I_{θ})	(230 V) 4 A
Rated Operational Current AC-15 (I_{θ})	(230 V) 3 A
Rated Operational Current DC-12 (I_{θ})	(24 V) 4 A
Rated Operational Current DC-13 (I_{θ})	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Impulse Withstand Voltage (U_{imp})	Output Circuit 1 / Output Circuit 2 4 kV Output Circuit 4 kV
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
Degree of Protection	Housing IP50 Terminals IP20
Overvoltage Category	III
Pollution Degree	3
Short-Circuit Protective Devices	Output Circuit NC - F Type Fuses 10 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 100000 cycle
Mechanical Durability	Nr. Operations 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
Recommended Screw Driver	4.5 0.8 x 4 Poqidriv 1
Mounting Position	1 ... 6
Mounting on DIN Rail	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Standards	CAN/CSA C22.2 No.14 EN 50495 IEC/EN 63000 IEC/EN 60079-7 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	B300
Connecting Capacity UL/CSA	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 2x 20-14 AWG Rigid 1x 20-12 AWG
Tightening Torque UL/CSA	7.08 in-lb
Pilot Duty UL/CSA	B300
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 and Amendment 2015/863 July 22, 2019
SCIP	d4dbc433-2a16-40d0-8ee2-d005b9e2fea2 Germany
Simplified SCIP	97fdf0e9-e196-4fa0-8b24-f288fe8e9aea France 5191e536-19e2-42c2-8888-343710fc4118 Sweden 5d6c5da3-8f68-42fd-9452-cf86fc3d84d Germany 0579a862-9a96-4513-8980-cd4c82f17264 Sweden 0c255667-c4e9-4c28-9eb0-619a2a8c134a Poland e47abcda-c347-4b9a-8de6-255a532151d6 France 6c416bdf-8553-4a46-81af-af49326e8d14 Hungary ac7fed6b-1252-450f-b2e1-67786a5c142b Belgium 6ababbce-f6ab-49c4-8797-e0a3f2f21de1 Spain 85fb3565-2def-4c91-8fb1-afebf0692157 Bulgaria ea3fb2c1-a709-4fa1-a37e-a9002337e517 Netherlands 95d5aebf-caea-4a1a-bed0-558c46030260 Estonia 9a041399-78a0-4b77-9ada-d82e3356bec9 Poland 4c7702b2-4eff-4547-ba87-e6ee9575694a Hungary 2c2ea1a2-b79e-420e-a57c-d37acf25df90 Portugal 0020ec2f-b7df-48d8-8fce-e791b7da1069 Greece a4801e96-395e-4492-bfd7-4210043288ab Germany abb6a722-0c77-48a9-ad1c-b5266d9b9708 Czech Republic e54804b2-476f-4c71-82ce-52acc36c3f3 Germany aec3a7c8-ee9f-4d1b-8cdd-f86a48a801a1 Croatia da4ef4be-a365-467b-b662-882c7a29d45d Germany

535ca094-48b0-488b-90a6-7f2dd88abbed Italy
 ee217793-1566-48f9-b125-2c8fad4b9f66 Denmark
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 1c31e64e-be0c-44f3-9263-d14274188b4b Norway
 161de862-9a33-4035-94b7-de947bffc6c0 Finland
 e68db441-f9c9-40d4-9477-b376a0e8ad8f Belgium
 2CMT2023-006536

Toxic Substances Control
 Act - TSCA

ABB EcoSolutions

Environmental Product Declaration - EPD 1SAC200438H0001

Certificates and Declarations

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
Declaration of Conformity - CCC	2020980303000194
Declaration of Conformity - CE	1SVD981007
Declaration of Conformity - UKCA	1SVD981007-10
DNV GL Certificate	DNVGL_TAE00003W4

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	0.167 kg
Package Level 1 EAN	4013614496677

External Classifications and Standards

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)	2712512
E-Number (Norway)	4187717
E-Number (Sweden)	3860738

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Thermistor Motor Protection Relays
Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)

