



PRODUCT-DETAILS

# CM-MPS.23S

## CM-MPS.23S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3-N=3x180-280VAC



### General Information

Extended Product Type	CM-MPS.23S
Product ID	1SVR730885R4300
EAN	4016779851909
Catalog Description	CM-MPS.23S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3-N=3x180-280VAC
Long Description	<p>The CM-MPN.23S is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 180-280 V AC 50/60/400 Hz and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. This relay is also suitable to monitor single-phase mains. It monitors all phase parameters such as over/undervoltage, phase unbalance, phase failure as well as an interrupted neutral. The corresponding threshold values are adjustable. The CM-MPN.23S also offers selection of phase sequence monitoring, automatic phase sequence correction as well as an ON or OFF tripping delay. The output contacts can be configured as 1x2 c/o (SPDT) contacts (common signal) or 2x1 c/o (SPDT) contact (separate signal for over- and undervoltage thresholds) operation. The tripping delay is adjustable over a range of instantaneous to 30 s (0, 0.1-30 s). 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>

### Ordering

EAN	4016779851909
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Popular Downloads

Data Sheet, Technical Information	2CDC112203D0201
Instructions and Manuals	1SVC730730M1000 1SVC730730M0000
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	0.149 kg

### Technical

Function	Automatic phase sequence correction Over- and undervoltage monitoring Phase failure detection Phase unbalance detection Phase sequence monitoring Interrupted neutral monitoring
Measuring Range	(L-N) 180 ... 280 V AC
Time Range	0 s or 0.1 ... 30 s tripping delay (ON or OFF) 200 ms start-up delay
Rated Control Supply Voltage (U <sub>s</sub> )	(L-N) 180 ... 280 V AC
Rated Frequency (f)	Supply Circuit 50/60/400 Hz
Output	2 x 1 c/o or 1 x 2 c/o contacts, configurable
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> )	Input Circuit 6 kV Output Circuit 4 kV
Rated Insulation Voltage (U <sub>i</sub> )	Input Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 300 V
Degree of Protection	Housing IP50 Terminals IP20
Overvoltage Category	III
Pollution Degree	3
Short-Circuit Protective	Output Circuit NC - F Type Fuses 6 A

Devices	Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 100000 cycle
Mechanical Durability	30000000 cycle
Connecting Capacity	Flexible with Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> 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
Wire Stripping Length	8 mm
Recommended Screw Driver	4.5 0.8 x 4 Pozidriv 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 IEC/EN 63000 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 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
SCIP	9bf56137-00b0-4439-81f6-f032b7d8a3b0 Germany (DE)
Simplified SCIP	8caab821-85ec-4097-8e86-78b62f2bf7b1 Denmark (DK) 3835ad27-a813-486e-b7c2-b92fb97b99c8 Norway (NO)

8d847f8c-28ca-4f4c-a780-c13f1fb09964	Finland (FI)
63b75df6-b4ae-40f3-b389-4aafa636b8db	Belgium (BE)
cb4dc2ac-df2c-4f7e-87ce-b598b65d73a3	Hungary (HU)
dd2bfbab-511b-415d-a403-7fa0deb13b4	Germany (DE)
5cddf46f-b6a6-430d-81e1-d461a3b00dc3	France (FR)
fd9e589d-4dc7-49a2-965f-78f53f021dbc	France (FR)
1d34ab77-ffb4-48b7-b006-d3f2745ea1af	Sweden (SE)
e07cb688-3736-4348-a0b3-90268a67946f	Poland (PL)
9a2ae3dc-0184-4cac-b3c3-a49777cd4c86	Germany (DE)
6e1fab9b-2971-482c-bf4b-471e7da80343	Sweden (SE)
6d3ba164-2ada-4786-8e2d-e2e07b72661b	Spain (ES)
7ca3728e-71eb-4a2c-b221-afd20eb708bb	Bulgaria (BG)
45da2421-6331-453d-abd7-f52308379abc	Portugal (PT)
f93660a4-26c6-477b-a5db-d258f6d50528	Netherlands (NL)
969cceed-425a-427a-98ec-512bfee7df3c	Hungary (HU)
348e01d5-45f8-4584-9994-8800f68f7f8e	Greece (GR)
9ef86af4-9062-4423-84f0-a07d651382d8	Poland (PL)
9f51ce2c-0ea0-4a35-a280-b365ae7f909d	Estonia (EE)
7c6494aa-f43b-4460-8abe-2c034de1c7eb	Croatia (HR)
7c540790-810b-473b-aa6e-c90152dd4ecf	Germany (DE)
fafda219-3542-459f-a218-8fc7c3991746	Czech Republic (CZ)
48a038c0-27cc-48af-bebc-b9619917b50b	Italy (IT)
90fa4ded-8346-4d28-94b2-7dcb4224f635	Germany (DE)
1fc3e627-e6a3-4caa-8897-e36fcd6d6275	Belgium (BE)
0b4bf3e3-d78f-4909-a6f0-2e1c28e32710	Poland (PL)

Toxic Substances Control Act - TSCA	2CMT2023-006536
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**ABB EcoSolutions**

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

CB Certificate	CB_DK-27947-UL
CQC Certificate	CQC2009010303326655
cULus Certificate	cULus508_20120829-E140448
Declaration of Conformity - CCC	2020980303000197
Declaration of Conformity - CE	1SVD981014-00
Declaration of Conformity - UKCA	1SVD981014-10
DNV GL Certificate	DNV_GL_TAA000017D

**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	0.174 kg
Package Level 1 EAN	4016779851909

**Classifications**

Object Classification	B
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Code	
ETIM 7	EC001441 - Phase monitoring relay
ETIM 8	EC001441 - Phase monitoring relay
ETIM 9	EC001441 - Phase monitoring relay
eClass	V11.0 : 27371803
UNSPSC	39122332
E-Number (Finland)	2712274
E-Number (Norway)	4188138
E-Number (Sweden)	3860591

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## Categories

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Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Three Phase Monitors

