



PRODUCT-DETAILS

CM-MPS.43S

CM-MPS.43S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC



General Information	
Extended Product Type	CM-MPS.43S
Product ID	1SVR730884R4300
EAN	4016779851879
Catalog Description	CM-MPS.43S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC
Long Description	The CM-MPN.43S is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 300-500 V AC 50/60/400 Hz and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. This relay monitors all phase parameters such as over/undervoltage, phase unbalance and phase failure. The corresponding threshold values are adjustable. The CM-MPN.43S 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.
Ordering	
EAN	4016779851879
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
Data Sheet, Technical Information	2CDC112204D0201
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	0.148 kg

Technical	
Function	Automatic phase sequence correction Over- and undervoltage monitoring Phase failure detection Phase unbalance detection Phase sequence monitoring
Measuring Range	(L-L) 300 ... 500 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 _s)	(L-L) 300 ... 500 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 _ø)	(230 V) 4 A
Rated Operational Current AC-15 (I _ø)	(230 V) 3 A
Rated Operational Current DC-12 (I _ø)	(24 V) 4 A
Rated Operational Current DC-13 (I _ø)	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Impulse Withstand Voltage (U _{imp})	Input Circuit 6 kV Output Circuit 4 kV
Rated Insulation Voltage (U _i)	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 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 with Ferrule 1x 0.5 ... 2.5 mm² Flexible with Ferrule 2x 0.5 ... 1.5 mm² Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm² Flexible 1x 0.5 ... 2.5 mm² Flexible 2x 0.5 ... 1.5 mm² Rigid 1x 0.5 ... 4 mm² Rigid 2x 0.5 ... 2.5 mm²

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	391855d7-8ab2-465b-9ea5-5a35944ee08f Germany (DE)
Simplified SCIP	c1c761b3-5f86-448f-b377-45056579c341 Poland (PL) f89f541e-788b-4239-8077-9a0bc10cf30f France (FR) 4bc1d327-7221-49a3-a39a-3b156bb1ef93 Poland (PL) c124575b-33c3-4270-a2a3-561c03fe13ac Denmark (DK) cefb8c06-c2b0-41cd-a042-c5a8041b0edf Finland (FI) 4c577ce9-ed2e-4b00-b62d-c98c4747c820 Norway (NO) 717173b8-84e8-4700-9369-383644542d41 Germany (DE) 69d1d222-265d-46d1-bc55-2c3ef58371cd Belgium (BE) 0e89fa15-ea58-4893-b5bc-c9cd4c3d7f3e Czech Republic (CZ) ad7a15bf-7b12-4b1e-9f95-dc7528ec87ce Germany (DE) 43ce8a04-1c7e-41da-ad5b-57494a7de522 Germany (DE) e38e4351-361d-48ef-b776-f25982476bbd Italy (IT) 1da160d6-732b-4299-bf32-5d70eca222ff Croatia (HR) ef3b9a54-a24e-42b7-b34f-a9666ae873e7 Estonia (EE) 11c45022-6809-4495-a367-cec2c2d34afa Poland (PL) 7966180f-cbe4-4093-bfd3-5cb17027ec95 Hungary (HU) 341a71a2-2d38-4747-b7cb-cadfbdd42467 Spain (ES) 5534844a-6443-48e5-aede-18a61a56e558 Hungary (HU) d149c9a3-922b-49de-ba47-8ed0c5297e3a Netherlands (NL) 83f1ede6-6608-4681-93d9-98a444b63153 Greece (GR) dceb739f-178a-411e-94da-5e18e1aa079f Portugal (PT)

Toxic Substances Control Act - TSCA	b6107680-3b40-4cea-a2ba-136c7964c1b0 France (FR)
	aa0f75dc-18a1-40a5-ab0b-57e07525ff56 Belgium (BE)
	cb2c3612-9cbb-4827-9a2b-af9213284b43 Germany (DE)
	d671dcdd-8146-46d3-a13f-967c4c0f3630 Bulgaria (BG)
	0b95707a-e3a9-44aa-a9cf-2f3866f5d745 Sweden (SE)
	cc26bc6e-de09-475c-881a-417544e09994 Sweden (SE)
	2CMT2023-006536

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	0.173 kg
Package Level 1 EAN	4016779851879

External Classifications and Standards

Object Classification Code	B
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)	2712280
E-Number (Norway)	4188140
E-Number (Sweden)	3860588

Categories

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

