



PRODUCT-DETAILS

CM-PVS.41S

CM-PVS.41S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC



General Information	
Extended Product Type	CM-PVS.41S
Product ID	1SVR730794R3300
EAN	4016779851848
Catalog Description	CM-PVS.41S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC
Long Description	The CM-PVS.41S relay is from the CM three-phase monitors range. This relay operates with a rated control supply voltage / three-phase measuring voltage of 300-500 V AC and has a 2 c/o output with contacts rated at 250 V / 4 A. The CM-PVS.41S monitors the phase parameters over/undervoltage and phase failure. The corresponding threshold values are adjustable. Phase sequence monitoring as well as an ON or OFF tripping delay are selectable. 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	4016779851848
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC112211D0201
Instructions and Manuals	1SVC730730M1000 1SVC730730M0000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132603 EPLAN

Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.139 kg

Technical

Function	Phase failure detection Phase sequence monitoring Over- and undervoltage monitoring
Measuring Range	(L-L) 300 ... 500 V AC
Time Range	Tripping Delay (ON or OFF) ≤ 0 second [unit of time]
Rated Control Supply Voltage (U_s)	(L-L) 300 ... 500 V AC
Rated Frequency (f)	Supply Circuit 50/60 Hz
Output	2 C/O 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})	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	Nr. Operations 30000000 cycle
Connecting Capacity	Flexible with Ferrule 1x 0.5 ... 2.5 mm ² Flexible with Ferrule 2x 0.5 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm ² 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	0.8 x 4

Driver	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 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 1x 20-12 AWG Rigid 2x 20-14 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 Declaration	1SVD981001-4401
RoHS Information	No declaration needed
SCIP	797a163d-ab29-43ea-9dd5-03be208771d8 Germany
Simplified SCIP	1cd92904-859c-4085-bf02-e18fe1180feb Germany e58827e3-c908-460f-89ef-285a46e8a67c Bulgaria 589a0051-11b3-4125-9220-b1742cc45378 Germany 86282214-393a-4bc5-bb76-a814d7a36246 France 1e25fb1e-7930-4e05-8c03-ccb75167c3a8 Poland 051b7c73-649c-41f8-97b9-ba8fb2a36683 Belgium b9581ee5-752d-4ecd-bf85-0b2906e2bb93 Belgium dde83d83-7df4-4741-a15e-cbf08b8ffe5c Hungary 332a0327-adfd-4853-b969-623c6d7e116f Portugal 21cc156d-9d6f-4555-a33e-fe8d5dd295fd Estonia c0403525-bfd1-490c-8640-0d865fc05ecc Sweden 56a1db4a-ed01-4c12-916b-b1617e67a7d5 Spain 893898c7-7f7e-4fe7-bf3e-4ebb8b4ff1fa Hungary 4ed91314-22a1-44fa-91d1-1f11933a7fb2 Poland cb699b4f-8f13-4448-99a4-3714542bfad4 Poland 30e49a4a-8db5-4a4e-a5cb-4ebeecf49cda Sweden 4dc73937-01fc-4849-9eb3-aa162a6d8f84 France 9e518d27-683f-424d-87ac-34b363b16c32 Greece f1eb9aad-313f-4977-bc80-8d76794ab504 Croatia 9c15b816-7275-44f6-8d7d-dd2b8412f7a5 Norway c648a14a-9632-4ed8-ba81-34c6f98fdaeef Netherlands 3393e3cc-e464-400f-a544-23a7ee162bf4 Germany ec37b5b4-9f91-4f2d-becc9-3418c31fff74 Italy adc11d9e-e621-4733-89fc-884e44a8c57c Finland 543b093a-e86c-4d99-ac53-781ffb58516f Czech Republic

18106b95-0e3f-4960-ba13-eafebc85ee1b Germany
9f9616e3-58ed-4dbe-8e7a-d2af479f4833 Denmark

Toxic Substances Control
Act - TSCA

2CMT2023-006536

ABB EcoSolutions

ABB EcoSolutions	Yes
Environmental Product Declaration - EPD	1SAC200438H0001

Certificates and Declarations

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	0.164 kg
Package Level 1 EAN	4016779851848

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)	2712294
E-Number (Norway)	4188155
E-Number (Sweden)	3860584

Categories

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



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