



**Electric Automation**  
Automation specialists

Reference: CM-PFS.S  
Code: 1SVR730824R9300

CM-PFS.S Three-phase monitoring relay 2c/  
o, L1-L2-L3=200-500VAC 50/60Hz

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Phase sequence relay CM-PFS.S, width 22.5mm, measuring range L1-L2-L3=200-500VAC 50/60Hz, powered by measuring range, 2 c/o (closed circuit principle). The device offers screw connection technology with double-chamber cage connection terminals.

### Ordering

EAN:	4016779851947
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

### Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	97 mm
Package Level 1 Height:	109 mm
Package Level 1 Length:	30 mm
Package Level 1 Gross Weight:	0.152 kg

### Dimensions

Product Net Width:	22.5 mm
Product Net Depth:	103.7 mm

Product Net Height:	85.6 mm
Product Net Weight:	0.127 kg

## Technical

Function:	Phase failure detection Phase sequence monitoring
Standards:	IEC/EN 60255-1 IEC/EN 60255-27 EN 50178
Measuring Range:	3x200 ... 500 V AC
Rated Control Supply Voltage (U <sub>s</sub> ):	3 x 200 ... 500 V AC
Output:	2 c/o (SPDT) contacts
Time Range:	500 ms start-up delay
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 Insulation Voltage (U <sub>i</sub> ):	Input Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 300 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	Input Circuit 6 kV Output Circuit 4 kV
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 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
Mounting Position:	Any

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
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## Environmental

Ambient Air Temperature:	Operation -25 ... +60 °C Storage -40 ... +85 °C
RoHS Status:	Following EU Directive 2011/65/EC

## 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

## Certificates and Declarations (Document Number)

CB Certificate:	CB_DK-28908-UL
CCC Certificate:	CCC_2005010303165479
cULus Certificate:	cULus508_20120829-E140448
Declaration of Conformity - CE:	1SAD938500-0203
EAC Certificate:	EAC_RU_C-DE.ME77.B.01012
GL Certificate:	GL_37695-12HH
RoHS Information:	1SAA981057-4402

## Classifications

Object Classification Code:	B
E-nummer:	3860595
ETIM 4:	EC001441 - Phase monitoring relay
ETIM 5:	EC001441 - Phase monitoring relay
eClass:	7.0 27371803