



**Electric Automation**  
Automation specialists

Reference: CM-PAS.31P  
Code: 1SVR740774R1300

CM-PAS.31P Three-phase monitoring relay  
2c/o, 0,0.1-30s, L1-L2-L3=3x160-300VAC

Buy it at [Electric Automation Network](#)



The CM-PAS.31P relay is from the CM three-phase monitors range. This relay operates with a rated control supply voltage / three-phase measuring voltage of 160-300 V AC and has a 2 c/o output with contacts rated at 250 V / 4 A. The CM-PAS.31P monitors the phase parameters phase failure, phase sequence and phase unbalance. An ON-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 maintenance free Easy Connect Technology with push-in terminals.

### Ordering

EAN:	4016779851978
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:	0.149 kg

### Dimensions

Product Net Width:	22.5 mm
Product Net Depth:	103.7 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.124 kg

## Technical

Function:	Phase failure detection Phase sequence monitoring Phase unbalance detection
Standards:	IEC/EN 60255-1 EN 50178
Measuring Range:	3x160 ... 300 V AC
Rated Control Supply Voltage (U <sub>s</sub> ):	3 x 160 ... 300 V AC
Output:	2 c/o (SPDT) contacts
Time Range:	200 ms start-up delay 0 s or 0.1-30 s tripping delay (ON)
Terminal Type:	Screwless 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 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 2x 0.5 ... 1.5 mm <sup>2</sup>
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

## Environmental

Ambient Air Temperature:	Operation -20 ... +50 °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 2x 18 ... 16 AWG Rigid 2x 20 ... 16 AWG

## Certificates and Declarations (Document Number)

CCC Certificate:	CCC_2009010303326655
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
RMRS Certificate:	RMRS_12.04009.250
RoHS Information:	1SAA981057-4402

## Classifications

Object Classification Code:	B
E-nummer:	3860598
ETIM 4:	EC001441 - Phase monitoring relay
ETIM 5:	EC001441 - Phase monitoring relay
eClass:	7.0 27371803