



Electric Automation
Automation specialists

Reference: CM-MPS.31P
Code: 1SVR740884R1300

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

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The CM-MPS.31P is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 160-300 V AC 50/60 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. 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 maintenance free Easy Connect Technology with push-in terminals.

Ordering

EAN:	4016779852036
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:	0.158 kg

Dimensions

Product Net Width:	22.5 mm
Product Net Depth:	103.7 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.133 kg

Technical

Function:	Phase failure detection Phase sequence monitoring Over- and undervoltage monitoring Phase unbalance detection
Standards:	IEC/EN 60255-1 EN 50178
Measuring Range:	3x160 ... 300 V AC
Rated Control Supply Voltage (U _s):	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 or OFF)
Terminal Type:	Screwless Terminals
Rated Operational Current AC-12 (I _e):	(230 V) 4 A
Rated Operational Current AC-15 (I _e):	(230 V) 3 A
Rated Operational Current DC-12 (I _e):	(24 V) 4 A
Rated Operational Current DC-13 (I _e):	(24 V) 2 A
Minimum Switching Capacity:	24 V 10 mA
Rated Insulation Voltage (U _i):	Input Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 300 V
Rated Impulse Withstand Voltage (U _{imp}):	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 ² Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm ² Flexible 2x 0.5 ... 1.5 mm ² Rigid 2x 0.5 ... 1.5 mm ²
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 -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 2x 18 ... 16 AWG Rigid 2x 20 ... 16 AWG

Certificates and Declarations (Document Number)

CB Certificate:	CB_DK-27947-UL
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:	3860605
ETIM 4:	EC001441 - Phase monitoring relay
ETIM 5:	EC001441 - Phase monitoring relay
eClass:	7.0 27371803