

General Information

Extended Product Type:	CM-MPS.31S
Product ID:	1SVR730884R1300
EAN:	4016779851855
Catalog Description:	CM-MPS.31S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x160-300VAC
Long Description:	The CM-MPS.31S 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 screw connection technology with double-chamber cage connection terminals.

Categories

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

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
EAN:	4016779851855

Container Information

Package Level 1 Width:	97 mm
Package Level 1 Height:	109 mm
Package Level 1 Length:	30 mm
Package Level 1 Gross Weight:	0.167 kg
Package Level 1 Units:	1 piece

Dimensions

Product Net Depth:	103.7 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.142 kg
Product Net Width:	22.5 mm

Technical

Standards:	EN 50178 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508 CAN/CSA C22.2 No. 14
Measuring Range:	(L-L) 160 ... 300 V AC
Rated Control Supply Voltage (U_S):	(L-L) 160 ... 300 V AC
Rated Frequency (f):	Supply Circuit 50/60 Hz
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:	Screw 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 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
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
Function:	Phase failure detection Phase sequence monitoring Over- and undervoltage monitoring Phase unbalance detection

Environmental

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

Technical UL/CSA

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
Maximum Operating Voltage UL/CSA:	Output Circuit 300 V AC

Certificates and Declarations (Document Number)

Instructions and Manuals:	1SVC730520M0000
CB Certificate:	CB_DK-27947-UL
CCC Certificate:	CCC_2009010303326655
cULus Certificate:	cULus508_20120829-E140448
Data Sheet, Technical Information:	2CDC112205D0201
Declaration of Conformity - CE:	1SVD981014-0000
EAC Certificate:	EAC_RU_C-DE.ME77.B.01012
GL Certificate:	GL_37695-12HH
RMRS Certificate:	RMRS_12.04009.250
RoHS Information:	1SVD981001-4400

Classifications

E-nummer:	3860586
ETIM 4:	EC001441 - Phase monitoring relay
ETIM 5:	EC001441 - Phase monitoring relay
ETIM 6:	EC001441 - Phase monitoring relay
eClass:	7.0 27371803
Object Classification Code:	B

