

General Information

Extended Product Type:	CM-MPN.72S
Product ID:	1SVR750489R8300
EAN:	4016779851930
Catalog Description:	CM-MPN.72S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x530-820VAC
Long Description:	The CM-MPN.72S is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 530-820 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. The CM-MPN.72S also offers selection of phase sequence monitoring, automatic phase sequence correction as well as an ON or OFF tripping delay. The output contacts can be configured as 1x2 c/o (SPDT) contacts (common signal) or 2x1 c/o (SPDT) contact (separate signal for over- and undervoltage thresholds) operation. 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:	4016779851930

Container Information

Package Level 1 Width:	97 mm
Package Level 1 Height:	109 mm
Package Level 1 Length:	52.5 mm
Package Level 1 Gross Weight:	0.249 kg
Package Level 1 Units:	1 piece

Dimensions

Product Net Depth:	104.8 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.224 kg
Product Net Width:	45 mm

Technical

Standards:	EN 50178 IEC/EN 61000-6-2 IEC/EN 61000-6-3
Measuring Range:	(L-L) 530 ... 820 V AC
Rated Control Supply Voltage (U_S):	(L-L) 530 ... 820 V AC
Rated Frequency (f):	Supply Circuit 50/60 Hz
Output:	2 x 1 c/o or 1 x 2 c/o contacts, configurable
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 1000 V Output Circuit 1 / Output Circuit 2 300 V
Rated Impulse Withstand Voltage (U_{imp}):	Input Circuit 8 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 Automatic phase sequence correction 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:	1SVC730530M0000
CB Certificate:	CB_DK-27946-UL
CCC Certificate:	CCC_2009010303326655
Data Sheet, Technical Information:	2CDC112177D0201
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-number:	3860594
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

