PRODUCT-DETAILS

CM-MPN.72S

CM-MPN.72S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x530-820VAC



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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical	2CDC112177D0201

Information	
Instructions and Manuals	1SVC730530M0000

Dimensions

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

Technical

Function	Phase failure detection Phase sequence monitoring Automatic phase sequence correction Over- and undervoltage monitoring Phase unbalance detection
Standards	EN 50581 IEC/EN 60255-27 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 mm² Flexible with Ferrule 2x 0.5 ... 1.5 mm² Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm² Flexible 1x 0.5 ... 2.5 mm² Flexible 2x 0.5 ... 1.5 mm² Rigid 1x 0.5 ... 4 mm² Rigid 2x 0.5 ... 2.5 mm²
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

Environmental

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

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-27946-UL
CCC Certificate	CCC_2009010303326655
CQC Certificate	CQC2009010303326655
Declaration of Conformity - CCC	2020980303000197
Declaration of Conformity - CE	1SVD981014
DNV GL Certificate	DNV_GL_TAA000017D
EAC Certificate	EAC_RU_C-DE.ME77.B.03424
Environmental Information	1SAA981020-2401
Instructions and Manuals	1SVC730530M0000
RMRS Certificate	RMRS_1740020250
RoHS Information	1SVD981014

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	97 mm
Package Level 1 Height	109 mm
Package Level 1 Depth / Length	52.5 mm
Package Level 1 Gross Weight	0.249 kg
Package Level 1 EAN	4016779851930

Classifications

Object Classification Code	B
ETIM 4	EC001441 - Phase monitoring relay
ETIM 5	EC001441 - Phase monitoring relay

ETIM 6	EC001441 - Phase monitoring relay
ETIM 7	EC001441 - Phase monitoring relay
eClass	V11.0 : 27371803
UNSPSC	39121536
E-Number (Finland)	2712268
E-Number (Sweden)	3860594

Categories

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

