

## General Information

<b>Extended Product Type:</b>	CM-MPS.21S
<b>Product ID:</b>	1SVR730885R3300
<b>EAN:</b>	4016779851893
<b>Catalog Description:</b>	CM-MPS.21S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3-N=3x180-280VAC
<b>Long Description:</b>	The CM-MPS.21S is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 180-280 V AC 50/60 Hz and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. This relay is also suitable to monitor single-phase mains. It monitors all phase parameters such as over/undervoltage, phase unbalance, phase failure as well as an interrupted neutral. 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

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900
<b>EAN:</b>	4016779851893

## Container Information

<b>Package Level 1 Width:</b>	97 mm
<b>Package Level 1 Height:</b>	109 mm
<b>Package Level 1 Length:</b>	30 mm
<b>Package Level 1 Gross Weight:</b>	0.171 kg
<b>Package Level 1 Units:</b>	1 piece

## Dimensions

<b>Product Net Depth:</b>	103.7 mm
<b>Product Net Height:</b>	85.6 mm
<b>Product Net Weight:</b>	0.146 kg
<b>Product Net Width:</b>	22.5 mm

## Technical

<b>Standards:</b>	EN 50178 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508 CAN/CSA C22.2 No.14
<b>Measuring Range:</b>	(L-N) 180 ... 280 V AC
<b>Rated Control Supply Voltage (U<sub>s</sub>):</b>	(L-N) 180 ... 280 V AC
<b>Rated Frequency (f):</b>	Supply Circuit 50/60 Hz
<b>Output:</b>	2 c/o (SPDT) contacts
<b>Time Range:</b>	200 ms start-up delay 0 s or 0.1-30 s tripping delay (ON or OFF)
<b>Terminal Type:</b>	Screw Terminals
<b>Rated Operational Current AC-12 (I<sub>e</sub>):</b>	(230 V) 4 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(230 V) 3 A
<b>Rated Operational Current DC-12 (I<sub>e</sub>):</b>	(24 V) 4 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(24 V) 2 A
<b>Minimum Switching Capacity:</b>	24 V 10 mA
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	Input Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 300 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Input Circuit 6 kV Output Circuit 4 kV

<b>Degree of Protection:</b>	Housing IP50 Terminals IP20
<b>Overvoltage Category:</b>	III
<b>Pollution Degree:</b>	3
<b>Short-Circuit Protective Devices:</b>	Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A
<b>Electrical Durability:</b>	AC-12 100000 cycle
<b>Mechanical Durability:</b>	30000000 cycle
<b>Connecting Capacity:</b>	Flexible with Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 1x 0.5 ... 4 mm <sup>2</sup> Rigid 2x 0.5 ... 2.5 mm <sup>2</sup>
<b>Tightening Torque:</b>	0.6 ... 0.8 N·m
<b>Wire Stripping Length:</b>	8 mm
<b>Mounting Position:</b>	Any
<b>Mounting on DIN Rail:</b>	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
<b>Function:</b>	Phase failure detection Phase sequence monitoring Over- and undervoltage monitoring Phase unbalance detection Interrupted neutral monitoring

### Environmental

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

### Technical UL/CSA

<b>Contact Rating UL/CSA:</b>	B300
<b>Connecting Capacity UL/CSA:</b>	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
<b>Tightening Torque UL/CSA:</b>	7.08 in·lb
<b>Maximum Operating Voltage UL/CSA:</b>	Output Circuit 300 V AC

### Certificates and Declarations (Document Number)

<b>Instructions and Manuals:</b>	1SVC730520M0000
<b>CB Certificate:</b>	CB_DK-27947-UL
<b>CCC Certificate:</b>	CCC_2009010303326655
<b>cULus Certificate:</b>	cULus508_20120829-E140448
<b>Data Sheet, Technical Information:</b>	2CDC112206D0201
<b>Declaration of Conformity - CE:</b>	1SVD981014-0000
<b>EAC Certificate:</b>	EAC_RU_C-DE.ME77.B.01012
<b>GL Certificate:</b>	GL_37695-12HH
<b>RMRS Certificate:</b>	RMRS_12.04009.250
<b>RoHS Information:</b>	1SVD981001-4400

### Classifications

<b>E-nummer:</b>	3860590
<b>ETIM 4:</b>	EC001441 - Phase monitoring relay
<b>ETIM 5:</b>	EC001441 - Phase monitoring relay
<b>ETIM 6:</b>	EC001441 - Phase monitoring relay
<b>eClass:</b>	7.0 27371803
<b>Object Classification Code:</b>	B

