

## General Information

<b>Extended Product Type:</b>	CM-PAS.31S
<b>Product ID:</b>	1SVR730774R1300
<b>EAN:</b>	4016779851794
<b>Catalog Description:</b>	CM-PAS.31S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x160-300VAC
<b>Long Description:</b>	The CM-PAS.31S relay is from the CM three-phase monitors range. This relay operates with a rated control supply voltage / three-phase measuring voltage of 160-300 V AC and has a 2 c/o output with contacts rated at 250 V / 4 A. The CM-PAS.31S monitors the phase parameters phase failure, phase sequence and phase unbalance. An ON-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>	4016779851794

## 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>	0.158 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>	0.133 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-L) 160 ... 300 V AC
<b>Rated Control Supply Voltage (U<sub>s</sub>):</b>	(L-L) 160 ... 300 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)
<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 Phase unbalance detection

## 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>	1SVC730510M0000
<b>CCC Certificate:</b>	CCC_2009010303326655
<b>cULus Certificate:</b>	cULus508_20120829-E140448
<b>Data Sheet, Technical Information:</b>	2CDC112180D0201
<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-number:</b>	3860579
<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

