

PRODUCT-DETAILS

## CM-EFS.2S

### CM-EFS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC



#### Información General

Tipo de producto extendido	CM-EFS.2S
Código de producto	1SVR730750R0400
EAN	4016779852128
Descripción corta	CM-EFS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC

Descripción larga	<p>The CM-EFS.2S is a single-functional voltage monitoring relay from the CM single-phase monitors range. This monitoring relay operates with a rated control supply voltage of 24 - 240 V AC / DC and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. It provides a RMS measuring principle for DC and AC voltages with 4 measuring ranges: 3-30 V, 6-60 V, 30-300 V and 60-600 V. The CM-EFS.2S offers window (over- and undervoltage) monitoring as well as selection of ON- or OFF-delay, open- or closed-circuit operating principle, with or without latching function. The output contacts can be configured as 1x2 c/o (SPDT) (common signal) or 2x1 c/o (SPDT) (separate signal for minimum and maximum thresholds) operation. The hysteresis is fixed at 5 % of the threshold value. The tripping delay and the start-up delay are 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.</p>
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#### Clasificación

EAN	4016779852128
Cantidad mínima de pedido	1 piece
Código arancelario	85364900

## Descargas Populares

Ficha técnica, información técnica	2CDC112174D0201
Instrucciones y manuales	1SVC730710M1000

## Dimensiones

Ancho del product	22.5 mm
Largo del product	103.7 mm
Alto del producto	85.6 mm
Peso del product	0.157 kg

## Technical

Function	Over- and undervoltage monitoring
Measuring Range	3 ... 30 V 6 ... 60 V 30 ... 300 V 60 ... 600 V
Rated Control Supply Voltage (U <sub>s</sub> )	24 ... 240 V AC/DC
Rated Frequency (f)	50 Hz 60 Hz DC
Output	2 x 1 c/o or 1 x 2 c/o contacts; operating principle selectable
Time Range	0 s or 0.1 ... 30 s tripping delay (ON or OFF)
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I <sub>e</sub> )	(230 V) 4 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(230 V) 3 A
Rated Operational Current DC-12 (I <sub>e</sub> )	(24 V) 4 A
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Insulation Voltage (U <sub>i</sub> )	Measuring Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 250 V Supply Circuit / Measuring Circuit 600 V Supply Circuit / Output Circuit 250 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Measuring Circuit / Output Circuit 6 kV Output Circuit 1 / Output Circuit 2 4 kV Supply Circuit / Measuring Circuit 6 kV Supply Circuit / Output Circuit 4 kV
Grado de protección	Housing IP50 Terminals IP20
Overvoltage Category	III
Pollution Degree	3
Short-Circuit Protective Devices	Output Circuit NC - F Type Fuses 10 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 1000000 cycle
Mechanical Durability	30000000 cycle
Connecting Capacity	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>

Tightening Torque	0.6 ... 0.8 N·m
Wire Stripping Length	8 mm
Recommended Screw Driver	Pozidriv 1 4.5 0.8 x 4
Mounting Position	1 ... 6
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
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508

### 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

### Ambiente

Temperatura ambiente	Funcionamiento -20 ... +60 °C Almacenamiento -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m
RoHS Status	Following EU Directive 2011/65/EU

### Certificados y Declaraciones (Número de Documento)

CB Certificate	CB_DK-28255-UL
CQC Certificate	CQC2007010303243843
cULus Certificate	cULus508_20120203-E140448
Ficha técnica, información técnica	2CDC112174D0201
Declaration of Conformity - CCC	2020980303000196
Declaración de conformidad - CE	1SVD981013-00
Declaration of Conformity - UKCA	1SVD981013-10
DNV GL Certificate	DNV_GL_TAA0000292
EAC Certificate	EAC_RU_C-DE.ME77.B.03424
Instrucciones y manuales	1SVC730710M1000
RoHS Information	1SVD981013-00

### Información de Embalaje

Embalaje Nivel 1 Unidades	box 1 piece
Embalaje Nivel 1 Ancho	97 mm
Embalaje Nivel 1 Alto	109 mm

Embalaje Nivel 1 Largo	30 mm
Embalaje Nivel 1 Peso	0.179 kg
Embalaje Nivel 1 EAN	4016779852128

## Clasificaciones

Object Classification Code	B
ETIM 4	EC001438 - Voltage monitoring relay
ETIM 5	EC001438 - Voltage monitoring relay
ETIM 6	EC001438 - Voltage monitoring relay
ETIM 7	EC001438 - Voltage monitoring relay
eClass	V11.0 : 27371801
UNSPSC	39121514
E-Number (Finland)	2712240
E-Number (Sweden)	3860615

## Where Used (as a spare part for "Products")

Identifier	Description	Quantity	Unit Of Measure
9AAC30400163	No Description Available	1	piece
9AAC30400421	No Description Available	1	piece
9AAC30403877	No Description Available	1	piece
9AAC30404896	No Description Available	1	piece
9AAF404899	No Description Available	1	piece
9AAF404900	No Description Available	1	piece
9AAF407277	No Description Available	1	piece
9AAF408067	No Description Available	1	piece

## Product specific part data

Product	Category	Switchgear Part Category
9AAC30400163	SafePlus up to 24kV	Wiring and Plugs LV Modules
9AAC30400421	SafeRing up to 24kV	Wiring and Plugs LV Modules
9AAC30403877	SafeRing 36-40,5kV	LV Modules Wiring and Plugs
9AAC30404896	SafePlus 36-40,5kV	Wiring and Plugs LV Modules
9AAF404899	SafeRing Air up to 12kV	LV Modules Wiring and Plugs
9AAF404900	SafePlus Air up to 12kV	LV Modules Wiring and Plugs
9AAF407277	SafeRing AirPlus up to 24kV	Wiring and Plugs LV Modules
9AAF408067	SafePlus AirPlus up to 24kV	Wiring and Plugs LV Modules

## Categorias

Productos y sistemas de baja tensión → Aparatos de control → Relés electrónicos → Single Phase Monitors

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Celdas de Distribución Secundaria → Celdas Compactas Aisladas en Gas para Dist. Secundaria → SafeRing 36-40,5kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Celdas de Distribución Secundaria → Celdas Compactas Aisladas en Gas para Dist. Secundaria → SafeRing up to 24kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Celdas de Distribución Secundaria → SafePlus → SafePlus 36-40,5kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Celdas de Distribución Secundaria → SafePlus → SafePlus up to 24kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Gas Insulated Secondary Switchgear (ecoGIS) → Celdas Aisladas en Gas para Dist. Secundaria → SafeRing Air up to 12kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Gas Insulated Secondary Switchgear (ecoGIS) → Celdas Aisladas en Gas para Dist. Secundaria → SafeRing AirPlus up to 24kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Gas Insulated Secondary Switchgear (ecoGIS) → SafePlus (ecoGIS) → SafePlus Air up to 12kV

Productos y Sistemas de Media Tensión → Celdas de Media Tensión y Centros de Control de Motores → Gas Insulated Secondary Switchgear (ecoGIS) → SafePlus (ecoGIS) → SafePlus AirPlus up to 24kV

