

**SAFESERIES
SCS 24VDC P1SIL3DS I****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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The SCS 24VDC P1SIL3 I safety relay is designed particularly for use with Triconex® safety controllers from Schneider Electric. It is resistant to test pulses of the Triconex® output modules. A proof of compatibility is available for use with the Tricon™, Trident™ and Tri-GP™ systems. The safety relay is certified "Approved Safety Function" by the TÜV NORD. It therefore meets all specifications from EN 61508 to SIL3.

General ordering data

Type	SCS 24VDC P1SIL3DS I
Order No.	2500980000
Version	SAFESERIES, Safety relay, 24 V DC (16...36 V DC), , Max. switching current, internal fuse : 5 A, SIL 3, EN 61508:2010
GTIN (EAN)	4050118514322
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	22.5 mm	Width (inches)	0.886 inch
Height	117.3 mm	Height (inches)	4.618 inch
Depth	114.1 mm	Depth (inches)	4.492 inch
Net weight	0.001 g		

Temperatures

Humidity	95 %, no condensation	Operating temperature, max.	50 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...50 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input (safety circuit)

Rated control voltage	24 V DC (16...36 V DC)	Current consumption	50 mA
Status indicator	LED yellow	Protective circuit	Reverse polarity protection, Free-wheeling diode

Output (safety circuit)

Contact base material	AgNi	Contact design	NO contact
Max. permitted switching voltage	250 V AC / 30 V DC	Max. permitted switching current	5 A
Max. switching current, internal fuse	5 A	Max. switching current, external fuse	5 A
Max. switching capacity	2000 VA	Internal fuse	5 A time-lag
External back-up fuse	5 A time lag	Short circuit resistance	No
Switch-on time	≤ 25 ms	Switch-off time	≤ 30 ms
Min. switching capacity	10 mA @ 12 V		

Safety-related basic specifications

Device type	A	Hardware fault tolerance (HFT)	2
T _{proof}	12 Years	Safety category	SIL 3
Safety standard	EN 61508:2010		

General data

Rail	TS 35	Colour	black, yellow
Resistance to vibration	DNVGL-CG-0339, class A		

Insulation coordination

Insulation coordination according to	EN 61010-2-201:2013 + AC:2013	Rated voltage	300 V
Surge voltage category	III	Pollution severity	2
Protection degree	IP20	Type of isolation at input and output	reinforced insulation
Dielectric strength, Input/Output	3.51 kV _{eff} /5 s	Creepage and clearance distance input – output	≥ 6 mm
Impulse withstand voltage	6 kV (1.2/50 µs)		

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Further details of approvals / standards

Standards	EN 61010-2-201:2013 + AC:2013, EN 61326-1:2013, EN 61326-3-1:2008, EN 61326-3-2:2008	Certificate no. (cULus)	E141197
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Connection data

Wire connection method	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.13 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12
Wire cross-section, solid, min.	0.2 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire connection cross-section, finely stranded, min.	0.2 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.2 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.2 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Twin wire-end ferrules, max.	1.5 mm ²
Blade size	size PH0		

Classifications

ETIM 6.0	EC001449	eClass 6.2	27-37-18-19
eClass 9.0	27-37-18-19	eClass 9.1	27-37-18-19

Approvals

Approvals



ROHS	Conform
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Downloads

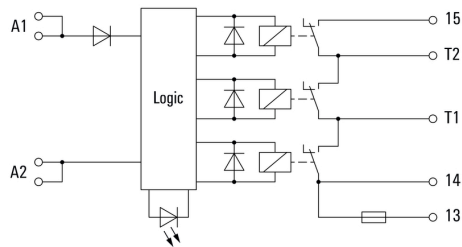
Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity TÜV Safety Approved certificate
Engineering Data	EPLAN
Engineering Data	STEP STEP
User Documentation	Sicherheitshandbuch - Deutsch Safety manual - English Beipackzettel / Package Insert - multilingual

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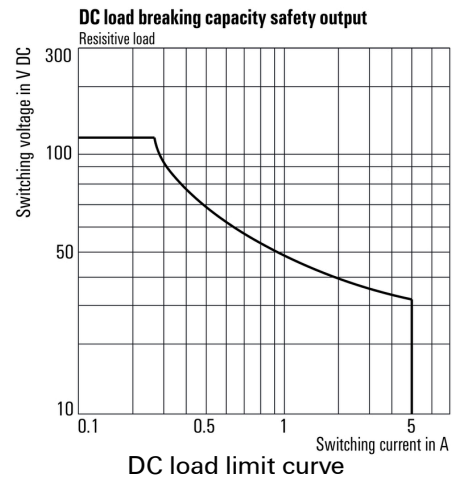
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Drawings

Wiring diagram



Graph



Dimensional drawing

