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Safety relay for emergency stop, safety doors, and light grids up to SILCL 3, Cat. 4, PL e, 1 or 2-channel operation, automatic or manual, monitored start, 3 enabling current paths, 1 signaling current path, $U_S = 24 \dots 230 \text{ V AC/DC}$, plug-in screw terminal block

Your advantages

- ☑ One or two-channel activation
- Manually monitored and automatic activation in a single device



Key Commercial Data

Packing unit	1 pc
GTIN	4 0 4 6 3 5 6 9 1 2 6 9 3
GTIN	4046356912693
Weight per Piece (excluding packing)	243.800 g
Custom tariff number	85371098
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	22.5 mm
Height	112.2 mm
Depth	114.5 mm

Ambient conditions



Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 55 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 85 °C
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Maximum altitude	≤ 2000 m (Above sea level)

Power supply

Designation	A1/A2
Rated control circuit supply voltage U _s	24 V AC/DC 230 V AC/DC -15 % / +10 %
Rated control supply current I _S	typ. 103 mA (24 V DC)
	typ. 47 mA (48 V DC)
	typ. 38 mA (110 V AC)
	typ. 21 mA (230 V AC)
Power consumption at U _S	2.7 W (with DC)
	2.9 W (with AC)
Apparent power	typ. 5 VA (at U _s)
Inrush current	< 80 A (Δt = 50 μs at U _s)
Filter time	2 ms (at A1 in the event of voltage dips at U _s)
Protective circuit	U _s : surge protection 275 V varistor / 411 V suppressor diode

Digital inputs

Input name	Sensor circuit
	S10, S11, S12, S13, S21, S22
Description of the input	safety-related sensor inputs
Input voltage range "0" signal	0 V DC 5 V DC (for safe Off; at S10/S12/S13)
Input current range "0" signal	0 mA 2 mA (for safe Off; at S10/S12/S13)
Inrush current	< 5 mA (with U _s /I _x at S10/S12/S13)
	> -5 mA (with U _s /I _x to S22)
Current consumption	< 5 mA (with U _s /I _x at S10/S12/S13)
	> -5 mA (with U _s /I _x to S22)
Filter time	max. 1.5 ms (to S10-S12; test pulse width; at 24 V DC)
	7.5 ms (to S10-S12; test pulse rate; at 24 V DC)
	Test pulse rate = 5 x Test pulse width
Max. permissible overall conductor resistance	150 Ω
Concurrence input 1/2	σ
Type of protection	Inputs: protection against polarity reversal, surge protection
Protective circuit/component	38.6 V suppressor diode
Input name	Start circuit
	S34, S35
Description of the input	non-safety-related
	NPN



Technical data

Digital inputs

Number of inputs	2
Inrush current	< 10 mA (Δt = 330 ms)
Current consumption	typ. 2.5 mA (S34)
	typ. 1 mA (S35)
Max. permissible overall conductor resistance	150 Ω
Protective circuit/component	Suppressor diode

Relay outputs: enabling current path

Number of outputs Contact type 3 enabling current paths Contact material AgSnO₂ Switching voltage min. 5 V AC/DC max. 250 V AC/DC (Observe the load curve) 6 A (observe derating) Inrush current min. 10 mA max. 6 A Sq. Total current 72 A² (observe derating) Switching capacity min. 50 mW min. 50 mW max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 40 ms) 48 W (24 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) Mechanical service life 10x 10⁵ cycles Switching capacity according to IEC 60947-5-1 5 A (25 V (DC13)) 5 A (250 V (C15))	Output name	Enabling current paths
Number of outputs Contact type 3 enabling current paths Contact material AgSnO₂ Switching voltage min. 5 V AC/DC max. 250 V AC/DC (Observe the load curve) 6 A (observe derating) Intrush current min. 10 mA max. 6 A Sq. Total current 72 A² (observe derating) Switching capacity min. 50 mW max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, ⊤ = 0 ms) 48 W (24 V DC, ⊤ = 40 ms) 36 W (60 V DC, ⊤ = 40 ms) 37 W (220 V DC, ⊤ = 40 ms) 38 W (220 V DC, ⊤ = 40 ms) 38 W (220 V DC, ⊤ = 40 ms) 48 W (24 V DC, ⊤ = 40 ms) 49 W (250 V AC, ⊤ = 40 ms) 40 W (48 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms) 50 W (40 V DC, ⊤ = 40 ms)		13/14, 23/24, 33/34
Contact type 3 enabling current paths Contact material AgSnO₂ Switching voltage min. 5 V AC/DC max. 250 V AC/DC (Observe the load curve) Limiting continuous current 6 A (observe derating) Inrush current min. 10 mA max. 6 A Sq. Total current Switching capacity min. 50 mW Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10° cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) 6 A gL/gG	Output description	safety-related N/O contacts
Contact material AgSnO ₂ Switching voltage min. 5 V AC/DC max. 250 V AC/DC (Observe the load curve) Limiting continuous current 6 A (observe derating) Inrush current min. 10 mA max. 6 A Sq. Total current 72 A² (observe derating) Switching capacity min. 50 mW Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, T = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, T = 40 ms) 40 W (48 V DC, T = 40 ms) 36 W (60 V DC, T = 40 ms) 35 W (110 V DC, T = 40 ms) 33 W (220 V DC, T = 40 ms) 33 W (220 V DC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) Mechanical service life 10x 10° cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) 6 A gL/gG	Number of outputs	3 (undelayed)
Switching voltage min. 5 V AC/DC max. 250 V AC/DC (Observe the load curve) Limiting continuous current 6 A (observe derating) Inrush current min. 10 mA Max. 6 A max. 6 A Sq. Total current 72 A² (observe derating) Switching capacity min. 50 mW Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) 6 A gL/gG	Contact type	3 enabling current paths
max. 250 V AC/DC (Observe the load curve)	Contact material	AgSnO ₂
Limiting continuous current 6 A (observe derating)	Switching voltage	min. 5 V AC/DC
Inrush current min. 10 mA max. 6 A Sq. Total current 72 A² (observe derating) min. 50 mW Switching capacity max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, T = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, T = 40 ms) 40 W (48 V DC, T = 40 ms) 36 W (60 V DC, T = 40 ms) 35 W (110 V DC, T = 40 ms) 33 W (220 V DC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 33 W (220 V DC, T = 40 ms) 40 X (250 V AC, T = 40 ms) 50 X (250 V AC, T = 40 ms) 50 X (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 60 X (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms) 1500 VA (250 V AC, T = 40 ms)		max. 250 V AC/DC (Observe the load curve)
Max. 6 A Sq. Total current 72 A² (observe derating) Switching capacity min. 50 mW Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG	Limiting continuous current	6 A (observe derating)
Sq. Total current 72 A² (observe derating) Switching capacity min. 50 mW Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 V (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms)	Inrush current	min. 10 mA
Switching capacity min. 50 mW Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 40 W (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 W (250 V AC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) 40 W (250 V AC, τ = 40 ms) 10x 10 ⁶ cycles 5 A (24 V (DC13)) 5 A (250 V (AC15)) 6 A gL/gG 6 A gL/gG		max. 6 A
Switching frequency max. 1 Hz Interrupting rating (ohmic load) max. 1500 VA (250 V AC, τ = 0 ms) For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG	Sq. Total current	72 A ² (observe derating)
Interrupting rating (ohmic load) max. 1500 VA (250 V AC, $\tau = 0 \text{ ms}$) For additional values, see load curve 48 W (24 V DC, $\tau = 40 \text{ ms}$) 40 W (48 V DC, $\tau = 40 \text{ ms}$) 36 W (60 V DC, $\tau = 40 \text{ ms}$) 35 W (110 V DC, $\tau = 40 \text{ ms}$) 37 W (220 V DC, $\tau = 40 \text{ ms}$) 38 W (220 V DC, $\tau = 40 \text{ ms}$) 39 W (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$) 100 VA (250 V AC, $\tau = 40 \text{ ms}$)	Switching capacity	min. 50 mW
For additional values, see load curve Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG	Switching frequency	max. 1 Hz
Maximum interrupting rating (inductive load) 48 W (24 V DC, τ = 40 ms) 40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG	Interrupting rating (ohmic load) max.	1500 VA (250 V AC, τ = 0 ms)
40 W (48 V DC, τ = 40 ms) 36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG		For additional values, see load curve
36 W (60 V DC, τ = 40 ms) 35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG	Maximum interrupting rating (inductive load)	48 W (24 V DC, τ = 40 ms)
35 W (110 V DC, τ = 40 ms) 33 W (220 V DC, τ = 40 ms) 1500 VA (250 V AC, τ = 40 ms) Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG		40 W (48 V DC, τ = 40 ms)
$33 \text{ W } (220 \text{ V DC}, \tau = 40 \text{ ms})$ $1500 \text{ VA } (250 \text{ V AC}, \tau = 40 \text{ ms})$ Mechanical service life $10x \ 10^6 \text{ cycles}$ Switching capacity according to IEC 60947-5-1 $5 \text{ A } (24 \text{ V } (\text{DC13}))$ $5 \text{ A } (250 \text{ V } (\text{AC15}))$ Output fuse $6 \text{ A } \text{gL/gG}$		36 W (60 V DC, τ = 40 ms)
$1500 \text{ VA } (250 \text{ V AC}, \tau = 40 \text{ ms})$ Mechanical service life $10x \cdot 10^6 \text{ cycles}$ Switching capacity according to IEC 60947-5-1 $5 \text{ A } (24 \text{ V (DC13)})$ $5 \text{ A } (250 \text{ V (AC15)})$ Output fuse 6 A gL/gG		35 W (110 V DC, τ = 40 ms)
Mechanical service life 10x 10 ⁶ cycles Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG		33 W (220 V DC, τ = 40 ms)
Switching capacity according to IEC 60947-5-1 5 A (24 V (DC13)) 5 A (250 V (AC15)) Output fuse 6 A gL/gG		1500 VA (250 V AC, τ = 40 ms)
5 A (250 V (AC15)) Output fuse 6 A gL/gG	Mechanical service life	10x 10 ⁶ cycles
Output fuse 6 A gL/gG	Switching capacity according to IEC 60947-5-1	5 A (24 V (DC13))
		5 A (250 V (AC15))
4 A gL/gG (for low-demand applications)	Output fuse	6 A gL/gG
		4 A gL/gG (for low-demand applications)

Relay outputs: return current/signaling current path

Output name	Signaling current path
Output description	non-safety-related N/C contact
Number of outputs	1 (undelayed)
Contact type	1 signaling current path



Technical data

Relay outputs: return current/signaling current path

Contact material	AgSnO₂
Switching voltage	min. 5 V AC/DC
	max. 250 V AC/DC
Limiting continuous current	6 A
Inrush current	min. 10 mA
	max. 6 A
Switching capacity	min. 50 mW
Switching frequency	1 Hz
Mechanical service life	10x 10 ⁶ cycles
Output fuse	6 A gL/gG
	4 A gL/gG (for low-demand applications)

Times

Typical pickup time at US	< 200 ms (when controlled via A1)
Typical response time at US	< 150 ms (automatic start)
	< 100 ms (manual, monitored start)
Typical release time at US	< 20 ms (when actuation is via the sensor circuit)
Restart time	<1s
Recovery time	< 500 ms

General

Relay type	Electromechanical relay with forcibly guided contacts in accordance with EN 50205
Nominal operating mode	100% operating factor
Net weight	243.8 g
Mounting position	vertical or horizontal
Mounting type	DIN rail mounting
Assembly instructions	See derating curve
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Housing material	РВТ
Housing color	yellow
Operating voltage display	1 x green LED
Status display	3 x green LED

Connection data

Connection method	Screw connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²



Technical data

Connection data

Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Safety-related characteristic data

Stop category	0
Designation	IEC 61508 - High demand
Safety Integrity Level (SIL)	3
Designation	IEC 61508 - Low demand
Safety Integrity Level (SIL)	3
Designation	EN ISO 13849
Performance level (PL)	е
Category	4
Designation	EN 62061
Safety Integrity Level Claim Limit (SIL CL)	3

Standards and Regulations

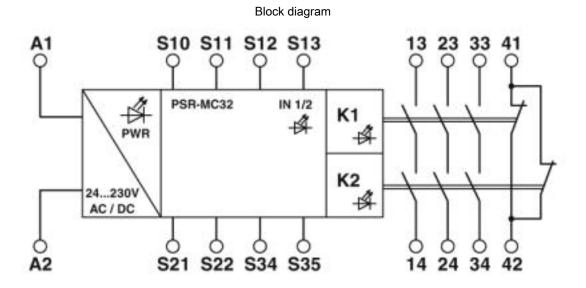
Designation	Air clearances and creepage distances between the power circuits		
Standards/regulations	DIN EN 50178; EN 60947-5-1		
Rated insulation voltage	250 V AC		
Rated surge voltage/insulation	Basic insulation 4 kV between enabling current path (23/24) and enabling current path (33/34) and signaling current path (41/42)		
	Basic insulation 4 kV between all current paths and housing		
	Safe isolation, reinforced insulation 6 kV between all other circuits		
Degree of pollution	2		
Overvoltage category	III		
Shock	15g		
Vibration (operation)	10 Hz 150 Hz, 2g		
Conformance	CE-compliant CE-compliant		

Environmental Product Compliance

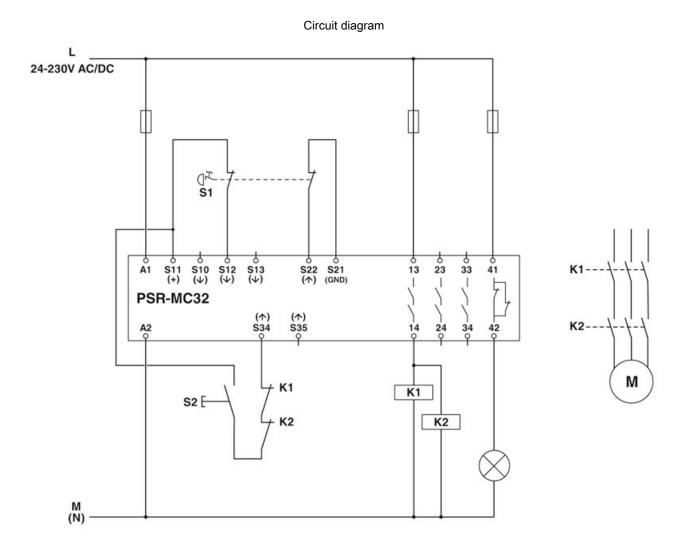
REACh SVHC	Lead 7439-92-1	
China RoHS	Environmentally Friendly Use Period = 50	
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"	

Drawings











Classifications

eCl@ss

eCl@ss 4.0	40020600
eCl@ss 4.1	40020600
eCl@ss 5.0	27371900
eCl@ss 5.1	27371900
eCl@ss 6.0	27371800
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819
eCl@ss 9.0	27371819

ETIM

ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449

UNSPSC

UNSPSC 13.2	39121501
UNSPSC 18.0	39122205
UNSPSC 19.0	39122205
UNSPSC 20.0	39122205
UNSPSC 21.0	39122205

Approvals

Approvals

Approvals

UL Listed / cUL Listed / Functional Safety / cULus Listed

Ex Approvals

Approval details

UL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 140324



Approvals

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
Functional Safety	The state of the s		44-205-15124310
cULus Listed	C (UL) US		

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