

PSR-SCP- 24UC/ESA2/4X1/1X2/B

Order No.: 2963802



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2963802>

1-channel safety relay for emergency off and safety door circuits, 4 N/O contacts, 1 N/C contact, undelayed, automatic and manual start for category 2 / EN 954-1, pluggable connecting terminal blocks, width: 22.5 mm



Commercial data

EAN	4017918892661
Pack	1 Pcs.
Customs tariff	85364900
Weight/Piece	0.2468 KG
Catalog page information	Page 21 (IF-2007)

Product notes

WEEE/RoHS-compliant since:
05/05/2008



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Input data

Nominal input voltage U_N	24 V AC/DC
Input voltage range in reference to U_N	0.85 ... 1.1

Typical input current at U_N	140 mA AC
	65 mA DC
Voltage at input/start and feedback circuit	Approx. 24 V DC
Typical response time	65 ms
Typical release time	45 ms
Recovery time	1 s
Max. permissible overall conductor resistance	Approx. 22 Ω (Input and start circuits at U_N)

Output data

Contact type	4 enabling current paths, 1 signaling current path
Contact material	AgSnO ₂ , + 0.2 μ m Au
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A (N/O contact)
	3 A (N/C contact)
Maximum inrush current	6 A
Inrush current, minimum	25 mA
Sq. Total current	$72 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + I_3^2 + I_4^2)$
Interrupting rating (ohmic load) max.	144 W (24 V DC, $\tau = 0$ ms, N/C contact 51/52: 72 W)
	288 W (48 V DC, $\tau = 0$ ms, N/C contact 51/52: 144 W)
	110 W (110 V DC, $\tau = 0$ ms)
	88 W (220 V DC, $\tau = 0$ ms)
	1500 VA (250 V AC, $\tau = 0$ ms, N/C contact 51/52: 750 VA)
Maximum interrupting rating (inductive load)	42 W (24 V DC, $\tau = 40$ ms)
	42 W (48 V DC, $\tau = 40$ ms)
	42 W (110 V DC, $\tau = 40$ ms)
	42 W (220 V DC, $\tau = 40$ ms)
Switching capacity min.	0.4 W
Output fuse	6 A fast blow
	4 A circuit-breaker C

General data

Length	99 mm
Width	22.5 mm
Height	114.5 mm
Ambient temperature (operation)	-20 °C ... 55 °C

Ambient temperature (storage/transport)	-20 °C ... 70 °C
Service life mechanical	Approx. 10 ⁷ cycles
Mounting position	Any
Category in acc. with EN 954-1	2
Stop category	0
Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
Rated surge voltage / insulation	4 kV / basic isolation, (safe isolation, increased isolation and 6 kV between input circuit and output contact current paths (N/O) and between N/C and output contact current paths (N/O.)
Rated insulation voltage	250 V
Pollution degree	2
Surge voltage category	III

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3
Type of connection	Screw connection

Certificates / Approvals

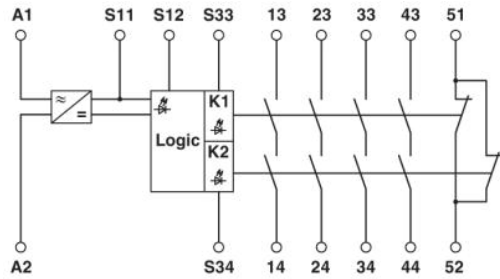


Certification

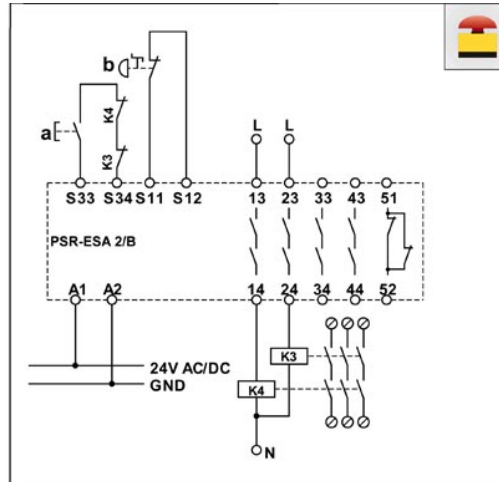
BG, CUL Listed, GOST, UL Listed

Drawings

Circuit diagram



1 = logics



a = RESET

b = Emergency stop

One-channel emergency stop circuit with manual activation and monitored contact expansion, suitable up to safety category 2.

One-channel safety door monitoring with automatic activation, suitable up to safety category 2.

