Coupling relay - PSR-SCP- 24DC/ETP/1X1 - 2986711

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://download.phoenixcontact.com)

Coupling relay for SIL 3 low demand applications, couples digital output signals to the periphery, 1 enabling current path, module for F&G applications, test pulse filter, plug-in screw connection, 17.5 mm width

Product Features

- Narrow 17.5 mm housing
- Up to SIL 3 according to IEC 61508
- Long service life thanks to filtering of controller test pulses
- One enabling current path
- Couples digital output signals from failsafe controllers to I/O devices (valves, etc.) for electrical isolation and power adaptation

Key commercial data

package_quantity	1
GTIN	4046356540797

Technical data

Note:

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

Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 65 °C
Max. permissible humidity (storage/transport)	≤ 85 % (Condensation and icing are not permitted based on the average annual temperature)
Max. permissible humidity (storage/transport)	≤ 85 % (On an individual basis, condensation and icing are not permitted)
Shock	15 g
Vibration (operation)	2 g

Input data

Coupling relay - PSR-SCP- 24DC/ETP/1X1 - 2986711

Technical data

Input data

Nominal input voltage U_N	24 V DC
Input voltage range	20.4 V DC ... 26.4 V DC
Input voltage range in reference to U_N	0.85 ... 1.1
Typical input current at U_N	75 mA
Typical inrush current	200 mA
Typical response time	30 ms
Recovery time	1 s

Output data

Contact type	1 enabling current path
Contact material	AgNi, gold-flashed
Maximum switching voltage	250 V AC (125 V DC)
Minimum switching voltage	15 V AC/DC
Limiting continuous current	5 A (N/O contact, pay attention to the derating)
Maximum inrush current	5 A
Inrush current, minimum	100 mA
Sq. Total current	25 A^2 ($I_{TH2} = I_{12} + ... + I_{N2}$)
Switching capacity min.	1.5 W

General

Relay type	Electromagnetic dust-proof relay
Mechanical service life	Approx. 10^7 cycles
Mounting position	optional (Observe derating)
Assembly instructions	In rows with zero spacing
Stop category	0
Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated surge voltage / insulation	6 kV/safe isolation (through protective impedance)
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III

Connection data

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3
Connection method	Screw connection

Coupling relay - PSR-SCP- 24DC/ETP/1X1 - 2986711

classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371901
eCl@ss 5.1	27371901
eCl@ss 6.0	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819

ETIM

ETIM 2.0	EC001449
ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001449

UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39121501

approvals

Functional Safety /

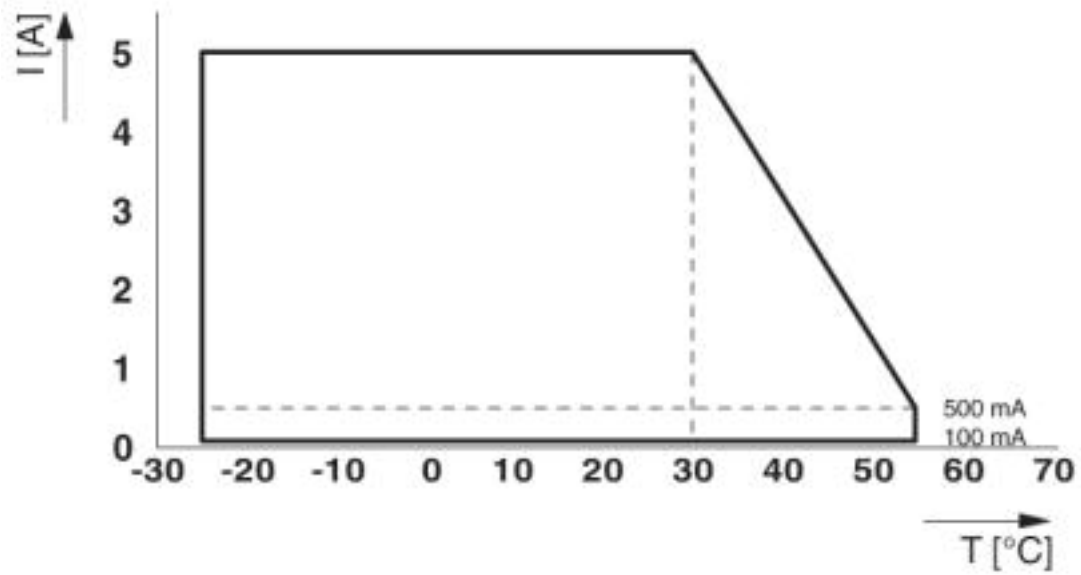
Approval details

Functional Safety

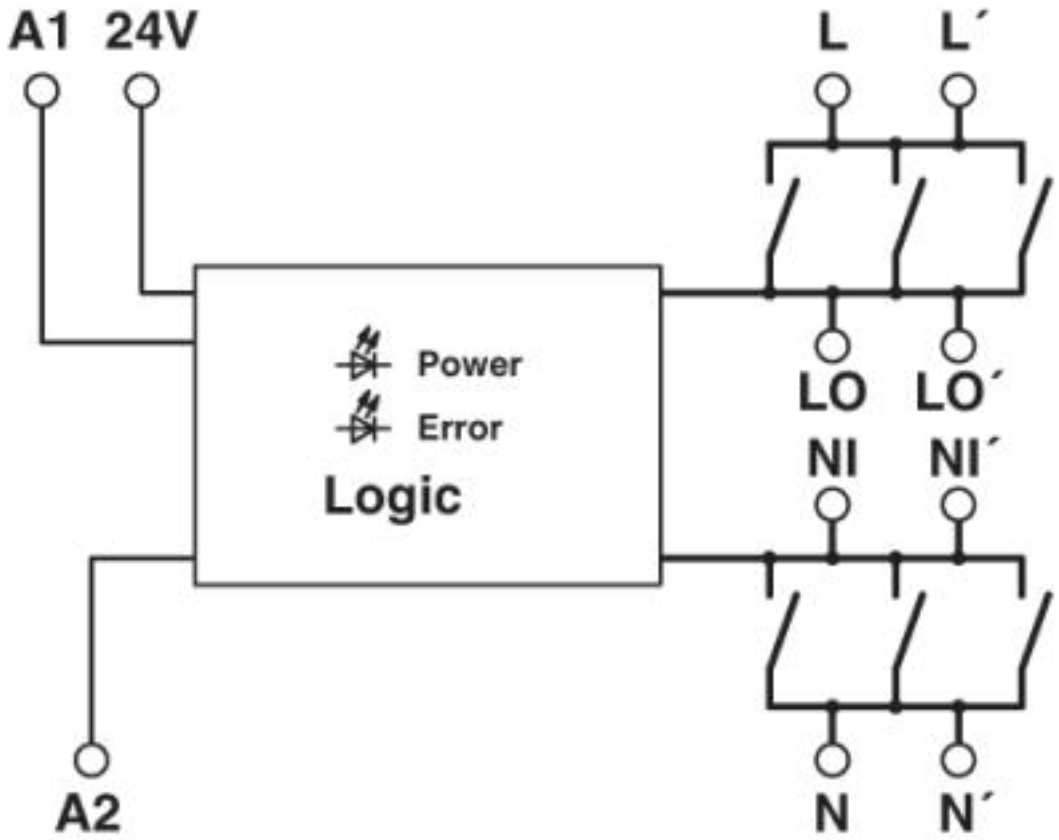
Drawings

Coupling relay - PSR-SCP- 24DC/ETP/1X1 - 2986711

Diagram



Circuit diagram



Coupling relay - PSR-SCP- 24DC/ETP/1X1 - 2986711

Circuit diagram