

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://phoenixcontact.com/download)



Safety relay module for sensor-free standstill monitoring for 3- and 1-phase motors to SILCL 3, Cat. 3, PL e, two-channel evaluation of the remanence voltage of AC, three-phase, and DC motors, pluggable Push-in terminal block, width: 12.5 mm

The figure shows a version with a screw connection

Your advantages

- Monitoring of 1 and 3-phase AC or DC motors
- ✓ No additional sensors required
- Magazia Adjustable delay time from 0.5 s ... 20 s
- 1 enabling current path, 2 digital signal outputs
- ☑ Low housing width of just 12.5 mm
- Up to Cat.3/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 133218
GTIN	4055626133218

Technical data

Note

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

Dimensions

Width	12.5 mm
Height	116.6 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C 55 °C (observe derating)



Technical data

Ambient conditions

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	max. 2000 m (Above sea level)

Power supply

Rated control circuit supply voltage U _S	24 V DC -15 % / +10 %
Rated control supply current I _S	typ. 50 mA
Power consumption at U _s	typ. 1.2 W
Inrush current	5.6 A (Δt = 400 μs at U _s)
Filter time	1 ms (at A1 in the event of voltage dips at U _s)
Protective circuit	Surge protection Suppressor diode
	Protection against polarity reversal for rated control circuit supply voltage

Measuring inputs

Current consumption	max. 0.35 mA (at L1/L2/L3)
Voltage input signal	max. 690 V AC/DC (at L1/L2/L3)
Limit frequency	max. 3 kHz (At voltages > 2 V _{RMS})

Relay outputs: enabling current path

Output name	Enabling current path
Output description	safety-related N/O contacts
Number of outputs	1 (undelayed)
Contact type	1 enabling current path
Contact material	AgSnO ₂
Switching voltage	min. 24 V AC/DC
	max. 250 V AC/DC (Observe the load curve)
Limiting continuous current	5 A (observe derating)
Inrush current	min. 3 mA
	max. 5 A
Sq. Total current	25 A ² (observe derating)
Switching capacity	min. 72 mW
Switching frequency	max. 0.5 Hz
Mechanical service life	10x 10 ⁶ cycles
Output fuse	5 A gL/gG

Alarm outputs

Number of outputs	2 (digital, PNP)
Voltage	23 V DC (U _s - 1 V)
Current	max. 100 mA
Maximum inrush current	500 mA
Short-circuit protection	Yes



Technical data

Times

Typical pickup time at US	<1s
Response time	typ. 20 ms (at 50 Hz input frequency)
Delay time range	0.5 s 20 s ±1 % (K1, K2 can be parameterized)

General

Nominal operating mode	100% operating factor
Net weight	143.9 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
Status display	4 x LED Bi-Colour

Connection data

Connection method	Push-in connection
Connection method	Push-in connection
pluggable	Yes
Conductor cross section solid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross-section AWG	24 16
Conductor cross-section flexible with ferrule without plastic sleeve	0.25 mm² 1.5 mm² (only together with CRIMPFOX 6)
Conductor cross-section flexible with ferrule and plastic sleeve	0.25 mm² 1.5 mm² (only together with CRIMPFOX 6)
Stripping length	8 mm

Safety-related characteristic data

Stop category	0
Designation	IEC 61508 - High demand
Safety Integrity Level (SIL)	3 (4 A DC13; 5 A AC15; 17520 switching cycles/year)
Designation	EN ISO 13849
Performance level (PL)	e (4 A DC13; 5 A AC15; 17520 switching cycles/year)
Category	3
Designation	EN 62061
Safety Integrity Level Claim Limit (SIL CL)	3 (4 A DC13; 5 A AC15; 17520 switching cycles/year)

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
	250 V AC
	400 V AC with isolation paths between (L1/L2/L3) and the remaining current paths



Technical data

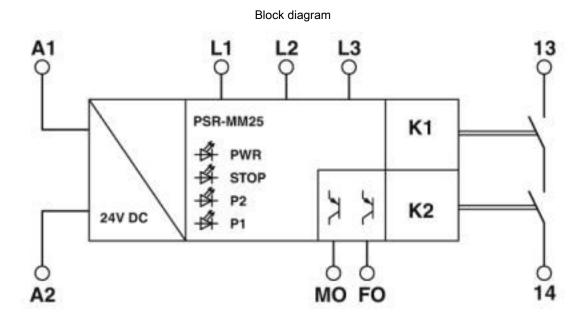
Standards and Regulations

	690 V AC (with isolation paths within L1/L2/L3)
Rated surge voltage/insulation	Basic insulation 4 kV: between all current paths and housing Basic insulation 8 kV: between L1 and L2 between L1 and L3 between L2 and L3
	Safe isolation, reinforced insulation 6 kV: between A1/A2 and 13/14 between MO/FO and 13/14 Safe isolation, reinforced insulation 8 kV: between L1/L2/L3 and A1/A2 between L1/L2/L3 and MO/FO between L1/L2/L3 and 13/14
Degree of pollution	2
Overvoltage category	III
Shock	15g
Vibration (operation)	10 Hz 150 Hz, 2g
Conformance	CE-compliant

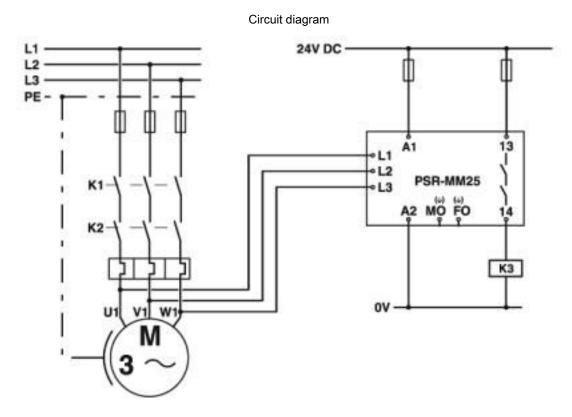
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings







Classifications

eCl@ss

eCl@ss 10.0.1	27371811
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	27371811
eCl@ss 8.0	27371811
eCl@ss 9.0	27371811

ETIM

ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001448
ETIM 6.0	EC001448
ETIM 7.0	EC001448

UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501



Classifications

UNSPSC

UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39122331
UNSPSC 18.0	39122331
UNSPSC 19.0	39122331
UNSPSC 20.0	39122331
UNSPSC 21.0	39122331

Approvals

Approvals

Approvals

Functional Safety / UL Listed / cUL Listed / Functional Safety / cULus Listed

Ex Approvals

Approval details

Functional Safety

Functional Safety

968/FSP 1226.00/16

FILE E 140324

UL Listed



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

cUL Listed



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

FILE E 140324

Functional Safety



01/205/5492.00/16

cULus Listed





Accessories

Accessories

Connector

Ring cable lug - C-RCI 2,5/M4 - 3240023



Ring cable lug, blue, 1.5 ... 2.5 mm², M4

Ring cable lug - C-RCI 2,5/M6 - 3240025



Ring cable lug, blue, 1.5 ... 2.5 mm², M6

Ring cable lug - C-RCI 2,5/M8 - 3240026



Ring cable lug, blue, 1.5 ... 2.5 mm², M8

Ring cable lug - C-RC 2,5/M3,5 DIN - 3240077



Ring cable lug, non-insulated, 1.1 ... 2.5 mm², M3,5

Ring cable lug - C-RC 2,5/M5 DIN - 3240079



Ring cable lug, non-insulated, 1.1 ... 2.5 mm², M5



Accessories

Ring cable lug - C-RC 2,5/M6 DIN - 3240080



Ring cable lug, non-insulated, 1.1 ... 2.5 mm², M6

Ring cable lug - C-RC 2,5/M8 DIN - 3240081



Ring cable lug, non-insulated, 1.1 ... 2.5 mm², M8

Ring cable lug - C-RC 2,5/M10 DIN - 3240082



Ring cable lug, non-insulated, 1.1 ... 2.5 mm², M10

Phoenix Contact 2020 @ - all rights reserved http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Safety Relays category:

Click to view products by Phoenix Contact manufacturer:

Other Similar products are found below:

7-1618103-5 1351-1X 1618082-4 1618111-1 C200HDA003 C200HMR432 C200HMR832 C200HMR833 C28PEDRA 20-050-36X C500ETL01 C500OD415CN 2-1618068-0 9-1618103-2 SP10-ETL01 C200HNC112 C200HOD214 C500CN812N 4NK0AQY 1100-42X V23050A1012A551 6-1618082-4 7-1618103-6 WTD-101X SP16DRD SP16DRA C500-CE243 C500-IDS02-V1 607.5111.020 DOLD 48173 CS AR-02V024 CS AR-22V024 CS AR-22V024 CS AR-22V230 750136 777512 PSR-MS21-1NO-1DO-24DC-SC 600PSR-165/300-CU SR6V6K18 SR4M4005 BPS 36-1 BP34 - 101057553 2TLA010033R3000 2TLA010033R0000 2TLA010028R1000 2TLA010017R0100 2TLA010026R0400 2TLA020007R6900 SCR 2-W22-2.5 7S.34.9.110.4220