

Relay Module - PLC-RPT- 24DC/ 1IC/ACT - 2900298

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PLC-INTERFACE, consisting of PLC-BSC.../1 IC/ACT basic terminal block with Push-in connection and plug-in miniature relay, for high inrush currents, for mounting on NS 35/7,5 DIN rail, 1 N/O contact, 24 V DC input voltage, max. inrush current up to 130 A

The figure shows a version with a screw connection

Product Features

- Direct connection of load return line thanks to actuator version
- Efficient connection to system cabling using V8 adapter
- Safe isolation according to DIN EN 50178 between coil and contact
- Max. inrush current of 130 A
- Functional plug-in bridges



Key commercial data

package_quantity	10
GTIN	4046356507370

Technical data

Note:

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

Width	14 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	24 V DC
Nominal input current at U_{IN}	18 mA
Typical response time	8 ms
Typical release time	10 ms

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Technical data

Coil side

Operating voltage display	Yellow LED
Protective circuit	Protection against polarity reversal Polarity protection diode
Protective circuit	Free-wheeling diode Damping diode

Contact side

Contact type	1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	12 V AC/DC (at 100 mA)
Maximum inrush current	80 A (for 20 ms)
Maximum inrush current	130 A (peak, at capacitive load, 230 V AC, 24 µF)
Min. switching current	100 mA (at 12 V DC)
Limiting continuous current	6 A
Limiting continuous current	10 A (the value is permissible if both connections 13, both connections 14 and both connections BB are bridged)
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
Interrupting rating (ohmic load) max.	58 W (at 48 V DC)
Interrupting rating (ohmic load) max.	48 W (at 60 V DC)
Interrupting rating (ohmic load) max.	50 W (at 110 V DC)
Interrupting rating (ohmic load) max.	80 MW
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)
Interrupting rating (ohmic load) max. bridged	240 W (for 24 V DC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.)
Interrupting rating (ohmic load) max. bridged	2500 VA (for 250 V AC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.)

General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3 x 10 ⁷ cycles
Inflammability class according to UL 94	V0
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	6 kV / Safe isolation, increased insulation
Pollution degree	2
Surge voltage category	III
Mounting position	Any
Assembly instructions	In rows with zero spacing

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Connection data

Connection method	Push-in connection
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm

classifications

eCl@ss

eCl@ss 4.0	27371001
eCl@ss 4.1	27371001
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 4.0	EC000196
ETIM 5.0	EC000196

UNSPSC


UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

approvals

GL / UL Listed / cUL Listed / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed /

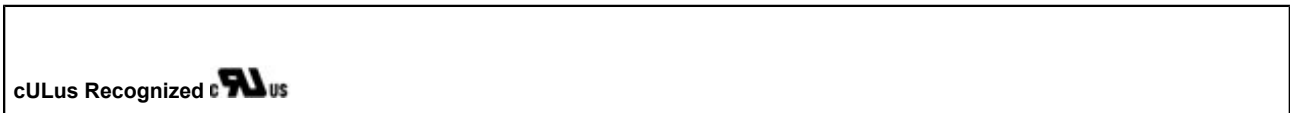
Approval details

GL



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approvals



accessories

Mounting rail

NS 35/ 7,5 V2A UNPERF 2000MM - 0801377



NS 35/ 7,5 PERF 2000MM - 0801733



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accessories

NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15-2,3 UNPERF 2000MM - 1201798



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 PERF 2000MM - 1201730



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accessories

NS 35/ 7,5 UNPERF 2000MM - 0801681



Terminal marking

ZB10/WH-100:UNBEDRUCKT - 5060883



ZB 10:UNBEDRUCKT - 1053001



Labeled terminal marker

ZB10,LGS:FORTL.ZAHLEN - 1053014



Partition plate

PLC-ATP BK - 2966841



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accessories

Power module

PLC-ESK GY - 2966508



Screwdriver tools

SZF 1-0,6X3,5 - 1204517



Controller board

PLC-V8L/FLK14/OUT - 2299660



PLC-V8L/FLK14/OUT/M - 2304306



Bridge

FBST 500-PLC RD - 2966786



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accessories

FBST 500-PLC BU - 2966692



FBST 500-PLC GY - 2966838



FBST 6-PLC RD - 2966236



FBST 6-PLC BU - 2966812



FBST 6-PLC GY - 2966825



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accessories

FBST 8-PLC GY - 2967688

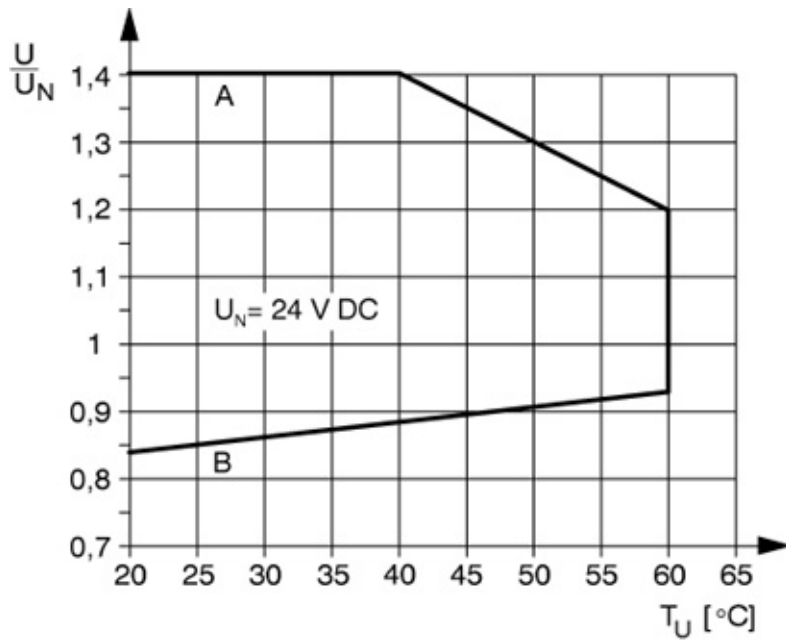


FBST 14-PLC BK - 2967691



Drawings

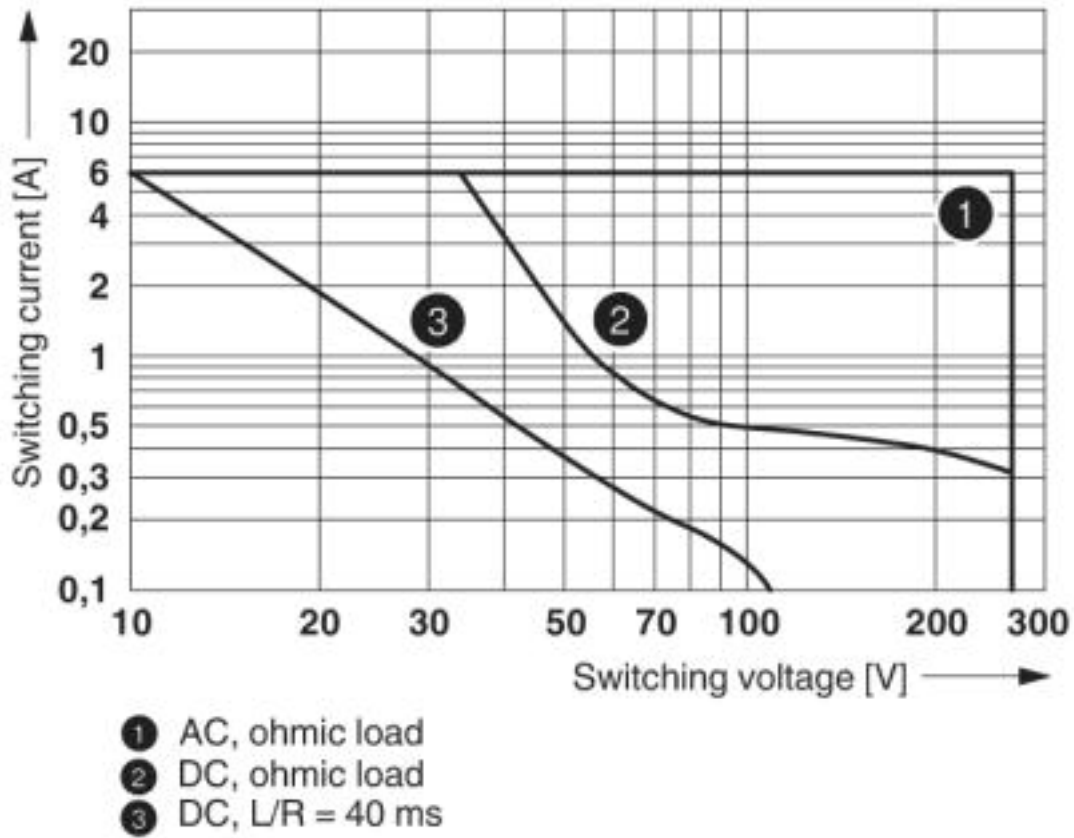
Diagram



Curve A Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data)
Curve B Minimum permissible operate voltage U_{op} after pre-excitation (see relevant technical data)

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Diagram



Interrupting rating

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Circuit diagram

