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PLC relay, consisting of base terminal block PLC-BSC.../21 with screw connection and pluggable miniature relay with power contact, for assembly on DIN rail NS 35/7.5, 1 PDT, input voltage 230 V AC / 220 V DC

#### Your advantages

- ☑ RT III sealed relay
- ☑ Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit



#### **Key Commercial Data**

Packing unit	10 pc
GTIN	4 017918 130695
GTIN	4017918130695
Sales Key	08

#### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
Note	Separating plate PLC-ATP must 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

#### **Dimensions**

Width	6.2 mm
Height	80 mm
Depth	94 mm

#### Ambient conditions



## Technical data

#### Ambient conditions

Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

#### Coil side

Nominal input voltage U <sub>N</sub>	230 V AC
	220 V DC
Typical input current at U <sub>N</sub>	$3.2 \text{ mA (at U}_{N} = 230 \text{ V AC)}$
	3 mA (at U <sub>N</sub> = 220 V DC)
Typical response time	7 ms
Typical release time	15 ms
Protective circuit	Bridge rectifier Bridge rectifier
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.74 W

#### Contact side

Contact type	1 PDT
Type of switch contact	Single 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 orFBST 500)
Minimum switching voltage	5 V (at 100 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	10 A (4 s)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

#### Connection data 1

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm



## Technical data

#### Connection data 1

Screw thread	M3
Conductor cross section solid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> ()
	2x 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> ()
Conductor cross section AWG	26 14

#### Connection data 2

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm² 2.5 mm² ()
	2x 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> ()
Conductor cross section AWG	26 14

#### General

Note	Separating plate PLC-ATP must 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
Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay base)
Mechanical service life	2x 10 <sup>7</sup> cycles
Mounting position	any
Assembly instructions	In rows with zero spacing
Net weight (SAP)	33.9 g

## Standards and Regulations

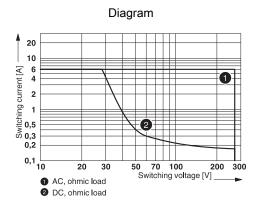
Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	3
Overvoltage category	III
Flammability rating according to UL 94	V0

#### **Environmental Product Compliance**

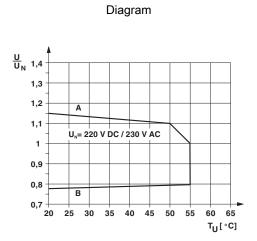
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"



## **Drawings**



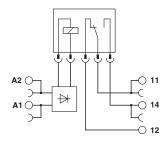
#### Interrupting rating



Curve A Maximum permissible continuous voltage  $U_{\text{max}}$  with limiting continuous current on the contact side (see relevant technical data) Curve B

Minimum permissible operate voltage  $U_{\text{op}}$  after pre-excitation (see relevant technical data)

#### Circuit diagram



## Articles in set

Relay base - PLC-BSC-230UC/21 - 2966045



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 230 V AC/DC



## Articles in set

Single relay - REL-MR- 60DC/21 - 2961118



Plug-in miniature power relay, with power contact, 1 PDT, input voltage 60 V DC

Approvals			
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Approvals			
PRS / GL / UL Listed / UL Reco	ognized / cUL Reco	ognized / cUL Listed / EAC / RC FRT / cULus Recognized / cULus Listed	
Ex Approvals			
Approval details			
PRS		http://www.prs.pl/	TE/2109/880590/16
GL	(GL)	http://exchange.dnv.com/tari/	46016-03 HH
UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
UL Recognized	<b>7.</b> 1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Recognized	. <b>FL</b>	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705



## Approvals

EAC

EHE

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 172140

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B.00094

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