



Automatización Eléctrica
Especialistas en Automatización

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Relay modules

PLC series

Basic terminal blocks with interference current filter that can be fitted with relays

PLC basic terminal blocks with integrated filter to protect against interference voltages or currents due, for example, to long control lines

The advantages:

- Resistant to interference currents
- High relay release voltage
- Typical applications:
- Applications with long control lines
- Use of AC output boards, resulting in residual AC currents
- Screw, spring-cage, and push-in technology

Notes:

- Type of housing: Polyamide PA non-reinforced, color: green.
- Marking systems and mounting material: See Catalog 5
- 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...
- For diagrams of operating voltage ranges, see page 343
- Maximum interrupting rating diagrams, see page 346
- 1) EMC: Class A product, see page 571



Universal design



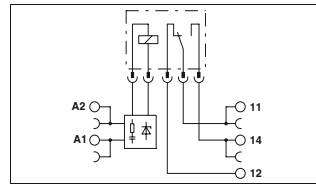
Sensor design



2 PDT universal design



1 PDT for high continuous currents



Technical data

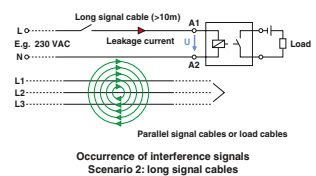
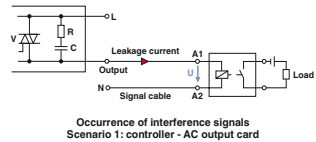
Input data	120 V AC	230 V AC
Nominal input voltage U_N	0.8 ... 1.4	0.78 ... 1.14
Permissible range (with reference to U_N)	50 V AC	80 V AC
Typ. release voltage (with relay)	7 mA / 8 mA	8.8 mA / 10 mA
Typ. input current with U_N (50 / 60 Hz)	7 ms	7 ms
Typ. response time at U_N	20 ms	20 ms
Typ. release time at U_N	Yellow LED, Bridge rectifier, Filter	
Input circuit	REL-MR-60DC/21	REL-MR-60DC/21AU
Output data with:	Single contact, 1-PDT	Single contact, 1-PDT
Contact type	AgSnO	AgSnO, hard gold-plated
Contact material	250 V AC/DC	30 V AC / 36 V DC
Max. switching voltage	5 V (at 100 mA)	100 mV (at 10 mA)
Min. switching voltage	6 A	50 mA
Limiting continuous current	(on request)	50 mA
Max. inrush current	10 mA (at 12 V)	1 mA (at 24 V)
Min. switching current	General data	
	Test voltage input/output: 4 kV (50 Hz, 1 min.)	
	Ambient temperature (operation): -20°C ... 55°C	
	Mechanical service life: 2 x 10 ⁷ cycles	
	Standards/regulations: IEC 60664, EN 50178, IEC 62103	
	Pollution degree / Surge voltage category: 3 / III	
	Connection data solid / stranded / AWG: 0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14	
	Dimensions: W / H / D: 6.2 mm / 80 mm / 94 mm	

Ordering data

Description	Voltage U_N	Type	Order No.	Pcs. / Pkt.
PLC-INTERFACE basic terminal block, for plug-in miniature relays or solid-state relays				
With screw connection	120 V AC	PLC-BSC-120UC/21/SO46 ¹⁾	2980319	10
With screw connection	230 V AC	PLC-BSC-230UC/21/SO46 ¹⁾	2980335	10
With spring-cage connection	120 V AC	PLC-BSP-120UC/21/SO46 ¹⁾	2980351	10
With spring-cage connection	230 V AC	PLC-BSP-230UC/21/SO46 ¹⁾	2980377	10
With push-in connection	120 V AC	PLC-BPT-120UC/21/SO46 ¹⁾	2900453	10
With push-in connection	230 V AC	PLC-BPT-230UC/21/SO46 ¹⁾	2900455	10

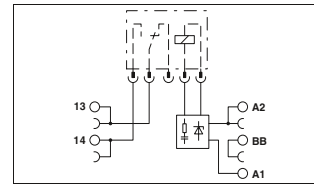
Accessories

Plug-in miniature relays	Order No.	Pcs. / Pkt.
with gold contact	REL-MR- 60DC/21AU	2961134
with power contact	REL-MR- 60DC/21	2961118



Relay modules

PLC series



Technical data

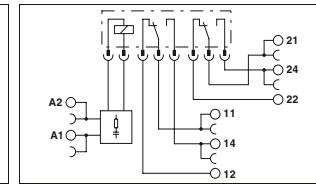
120 V AC	230 V AC
0.8 ... 1.4	0.78 ... 1.14
50 V AC	80 V AC
7 mA / 8 mA	8.8 mA / 10 mA
7 ms	7 ms
20 ms	20 ms
Yellow LED, Bridge rectifier, Filter	
REL-MR-60DC/21	REL-MR-60DC/21AU
Single contact, 1 N/O contact	Single contact, 1 N/O contact
AgSnO	AgSnO, hard gold-plated
250 V AC/DC	30 V AC / 36 V DC
5 V (at 100 mA)	100 mV (at 10 mA)
6 A	50 mA
(on request)	50 mA
10 mA (at 12 V)	1 mA (at 24 V)
General data	
Test voltage input/output: 4 kV (50 Hz, 1 min.)	
Ambient temperature (operation): -20°C ... 55°C	
Mechanical service life: 2 x 10 ⁷ cycles	
Standards/regulations: IEC 60664, EN 50178, IEC 62103	
Pollution degree / Surge voltage category: 3 / III	
Connection data solid / stranded / AWG: 0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14	
Dimensions: W / H / D: 6.2 mm / 80 mm / 94 mm	

Ordering data

Type	Order No.	Pcs. / Pkt.
PLC-BSC-120UC/ 1/SEN/SO46 ¹⁾	2980322	10
PLC-BSC-230UC/ 1/SEN/SO46 ¹⁾	2980348	10
PLC-BSP-120UC/ 1/SEN/SO46 ¹⁾	2980364	10
PLC-BSP-230UC/ 1/SEN/SO46 ¹⁾	2980380	10
PLC-BPT-120UC/ 1/SEN/SO46 ¹⁾	2900456	10
PLC-BPT-230UC/ 1/SEN/SO46 ¹⁾	2900457	10

Accessories

REL-MR- 60DC/21AU	Order No.	Pcs. / Pkt.
REL-MR- 60DC/21	2961134	10
	2961118	10



Technical data

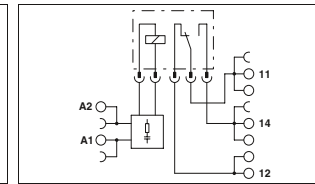
120 V AC	230 V AC
0.8 ... 1.4	0.78 ... 1.14
16 V AC	70 V AC
6 mA / 7 mA	8.5 mA / 10 mA
7 ms	7 ms
10 ms	10 ms
Yellow LED, Bridge rectifier, Filter	
REL-MR-110DC/21-21	REL-MR-110DC/21-21AU
Single contact, 2-PDT	Single contact, 2-PDT
AgNi	AgNi, + 5 μm Au
250 V AC/DC	30 V AC / 36 V DC
5 V AC/DC	100 mV
6 A	50 mA
15 A (300 ms)	50 mA
10 mA	1 mA
General data	
Test voltage input/output: 4 kV (50 Hz, 1 min.)	
Ambient temperature (operation): -20°C ... 55°C	
Mechanical service life: 3 x 10 ⁷ cycles	
Standards/regulations: IEC 60664, EN 50178, IEC 62103	
Pollution degree / Surge voltage category: 3 / III	
Connection data solid / stranded / AWG: 0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14	
Dimensions: W / H / D: 14 mm / 80 mm / 94 mm	

Ordering data

Type	Order No.	Pcs. / Pkt.
PLC-BSC-120UC/21-21/SO46 ¹⁾	2980416	10
PLC-BSC-230UC/21-21/SO46 ¹⁾	2980429	10

Accessories

REL-MR-110DC/21-21AU	Order No.	Pcs. / Pkt.
REL-MR-110DC/21-21	2961228	10
	2961202	10



Technical data

120 V AC	230 V AC
0.85 ... 1.4	0.78 ... 1.14
16 V AC	70 V AC
6 mA / 7 mA	8.5 mA / 10 mA
7 ms	7 ms
20 ms	20 ms
Yellow LED, Bridge rectifier, Filter	
REL-MR-110DC/21HC	
Single contact, 1-PDT	
AgNi	
250 V AC/DC	
12 V AC/DC	
10 A	
30 A (300 ms)	
100 mA	
General data	
Test voltage input/output: 4 kV (50 Hz, 1 min.)	
Ambient temperature (operation): -20°C ... 55°C	
Mechanical service life: 3 x 10 ⁷ cycles	
Standards/regulations: IEC 60664, EN 50178, IEC 62103	
Pollution degree / Surge voltage category: 3 / III	
Connection data solid / stranded / AWG: 0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14	
Dimensions: W / H / D: 14 mm / 80 mm / 94 mm	

Ordering data

Type	Order No.	Pcs. / Pkt.
PLC-BSC-120UC/21HC/SO46 ¹⁾	2980432	10
PLC-BSC-230UC/21HC/SO46 ¹⁾	2980445	10

Accessories

REL-MR-110DC/21HC	Order No.	Pcs. / Pkt.
	2961338	10

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- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
6.2 mm PLC sensor basic terminal block with RCZ filter against interference currents and voltages on the control side, with sensor supply voltage distribution (BB), spring-cage connection, 120 V AC input voltage (without relay or solid-state relay)	2980364	PLC-BSP-120UC/ 1/SEN/SO46	Buy on EAN