

Relay modules

PLC series

Universal PLC series with PDT relay

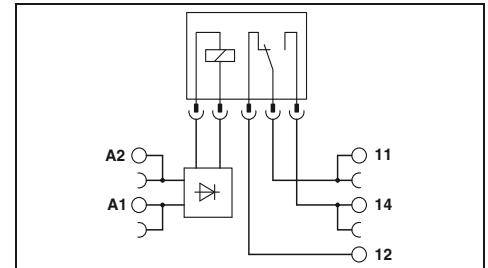
PLC-R... is the relay series that can be used universally and consists of basic terminal blocks and plug-in relays with PDT contacts.

- The advantages:
- Slim design
 - Screw, spring-cage, and push-in technology
 - Functional plug-in bridges
 - Integrated input and interference suppression circuit
 - RT III sealed relay
 - Safe isolation according to DIN EN 50178 between coil and contact
 - Efficient connection to system cabling using V8 adapter

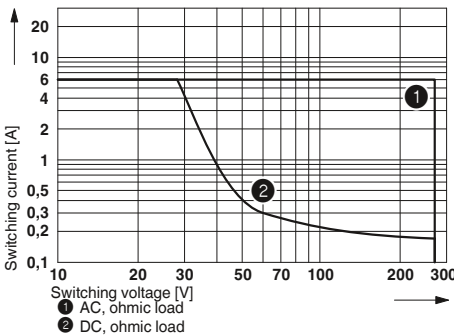
Notes:
Type of housing: Polyamide PA non-reinforced, color: green.
Marking systems and mounting material See Catalog 5
Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or FBST 500....
If the specified maximum values for multi-layer contact relays are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
For diagrams of operating voltage ranges, see page 343
Note: for marking material (ZB 6), see "CLIPLINE industrial connection technology, marking material for terminals, conductors, and cables".
1) 120 and 230 V types up to 55°C
2) 230 V types up to 55°C
3) EMC: Class A product, see page 571



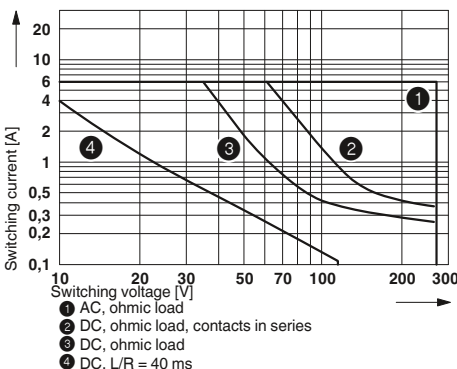
1 PDT with power contact



Electrical interrupting rating for PLC...21 with 1-PDT relay



Electrical interrupting rating for PLC...21-21 with 2-PDT relay



Input data	
Typ. input current at U_N	[mA]
Response/release time at U_N	[ms]
Input circuit DC	
Input circuit AC/DC	
Output data	
Contact material	
Max. switching voltage	
Min. switching voltage	
Limiting continuous current	
Max. inrush current	
Min. switching current	
General data	
Test voltage input/output	
Ambient temperature (operation)	
Mechanical service life	
Standards/regulations	
Connection data solid / stranded / AWG	
Dimensions	W / H / D

①	②	③	④	⑤	⑥	⑦
15.3	9	11	9.2	4.8	3.5	3.2
5/8	5/8	6/15	5/8	5/8	6/15	7/15
Yellow LED, Protection against polarity reversal, freewheeling diode						
Yellow LED, Bridge rectifier						

AgSnO
250 V AC/DC
5 V (at 100 mA)
6 A
(on request)
10 mA (at 12 V)
4 kV AC (50 Hz, 1 min.)
-40°C ... 60°C
2 x 10 ⁷ cycles
IEC 60664, EN 50178, IEC 62103
0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14
6.2 mm / 80 mm / 94 mm

Description	Input voltage U_N
PLC INTERFACE, with screw connection	
①	12 V DC
②	24 V DC
③	24 V AC/DC
④	48 V DC
⑤	60 V DC
⑥	120 V AC (110 V DC)
⑦	230 V AC (220 V DC)
PLC INTERFACE, with spring-cage connection	
①	12 V DC
②	24 V DC
③	24 V AC/DC
④	48 V DC
⑤	60 V DC
⑥	120 V AC (110 V DC)
⑦	230 V AC (220 V DC)
PLC-INTERFACE, with push-in connection	
①	12 V DC
②	24 V DC
③	24 V AC/DC
④	48 V DC
⑤	60 V DC
⑥	120 V AC (110 V DC)
⑦	230 V AC (220 V DC)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PLC-RSC- 12DC/21 ³	2966906	10
PLC-RSC- 24DC/21 ³	2966171	10
PLC-RSC- 24UC/21 ³	2966184	10
PLC-RSC- 48DC/21 ³	2966113	10
PLC-RSC- 60DC/21 ³	2966139	10
PLC-RSC-120UC/21 ³	2966197	10
PLC-RSC-230UC/21 ³	2966207	10
PLC-RSP- 12DC/21 ³	2967439	10
PLC-RSP- 24DC/21 ³	2966472	10
PLC-RSP- 24UC/21 ³	2966485	10
PLC-RSP- 48DC/21 ³	2966498	10
PLC-RSP- 60DC/21 ³	2966511	10
PLC-RSP-120UC/21 ³	2966524	10
PLC-RSP-230UC/21 ³	2966537	10
PLC-RPT- 12DC/21 ³	2900316	10
PLC-RPT- 24DC/21 ³	2900299	10
PLC-RPT- 24UC/21 ³	2900300	10
PLC-RPT- 48DC/21 ³	2900301	10
PLC-RPT- 60DC/21 ³	2900303	10
PLC-RPT-120UC/21 ³	2900304	10
PLC-RPT-230UC/21 ³	2900305	10



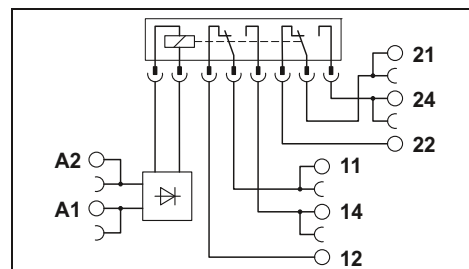
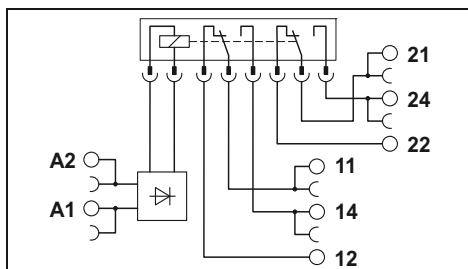
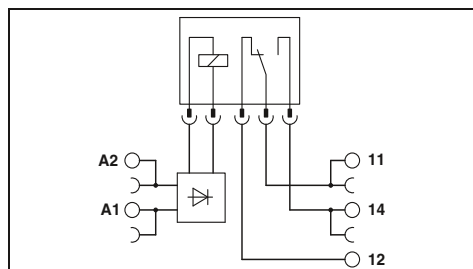
1 PDT with multi-layer gold contact



2 PDT with power contact



2 PDT with multi-layer gold contact



Technical data

①	②	③	④	⑤	⑥	⑦
15.3	9	11	9.2	4.8	3.5	3.2
5/8	5/8	6/15	5/8	5/8	6/15	7/15
Yellow LED, Protection against polarity reversal, freewheeling diode						
Yellow LED, Bridge rectifier						

AgSnO, hard gold-plated
30 V AC / 36 V DC
100 mV (at 10 mA)
50 mA
50 mA
1 mA (at 24 V)

4 kV AC (50 Hz, 1 min.)
-40°C ... 60°C¹⁾
2 x 10⁷ cycles
IEC 60664, EN 50178, IEC 62103
0.14 - 2.5 mm² / 0.14 - 2.5 mm² / 26 - 14
6.2 mm / 80 mm / 94 mm

Technical data

①	②	③	④	⑤	⑥	⑦
33	18	17.5	20	10	4.5	4.5
8/10	8/10	8/10	8/10	8/10	7/10	7/10
Yellow LED, Protection against polarity reversal, freewheeling diode						
Yellow LED, Bridge rectifier						

AgNi
250 V AC/DC
5 V AC/DC (at 10 mA)
6 A
15 A (300 ms)
10 mA (At 5 V)

4 kV AC (50 Hz, 1 min.)
-40°C ... 60°C²⁾
3 x 10⁷ cycles
IEC 60664, EN 50178, IEC 62103
0.14 - 2.5 mm² / 0.14 - 2.5 mm² / 26 - 14
14 mm / 80 mm / 94 mm

Technical data

①	②	③	④	⑤	⑥	⑦
33	18	17.5	20	10	4.5	4.5
8/10	8/10	8/10	8/10	8/10	7/10	7/10
Yellow LED, Protection against polarity reversal, freewheeling diode						
Yellow LED, Bridge rectifier						

AgNi, hard gold-plated
30 V AC / 36 V DC
100 mV (at 10 mA)
50 mA
50 mA
1 mA (at 24 V)

4 kV AC (50 Hz, 1 min.)
-40°C ... 60°C²⁾
3 x 10⁷ cycles
IEC 60664, EN 50178, IEC 62103
0.14 - 2.5 mm² / 0.14 - 2.5 mm² / 26 - 14
14 mm / 80 mm / 94 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
PLC-RSC- 12DC/21AU ³⁾	2966919	10
PLC-RSC- 24DC/21AU ³⁾	2966265	10
PLC-RSC- 24UC/21AU ³⁾	2966278	10
PLC-RSC- 48DC/21AU ³⁾	2966126	10
PLC-RSC- 60DC/21AU ³⁾	2966142	10
PLC-RSC-120UC/21AU ³⁾	2966281	10
PLC-RSC-230UC/21AU ³⁾	2966294	10
PLC-RSP- 12DC/21AU ³⁾	2967442	10
PLC-RSP- 24DC/21AU ³⁾	2966540	10
PLC-RSP- 24UC/21AU ³⁾	2966553	10
PLC-RSP- 48DC/21AU ³⁾	2966566	10
PLC-RSP- 60DC/21AU ³⁾	2966579	10
PLC-RSP-120UC/21AU ³⁾	2966582	10
PLC-RSP-230UC/21AU ³⁾	2966647	10
PLC-RPT- 12DC/21AU ³⁾	2900317	10
PLC-RPT- 24DC/21AU ³⁾	2900306	10
PLC-RPT- 24UC/21AU ³⁾	2900307	10
PLC-RPT- 48DC/21AU ³⁾	2900308	10
PLC-RPT- 60DC/21AU ³⁾	2900309	10
PLC-RPT-120UC/21AU ³⁾	2900310	10
PLC-RPT-230UC/21AU ³⁾	2900311	10

Ordering data

Type	Order No.	Pcs. / Pkt.
PLC-RSC- 12DC/21-21 ³⁾	2967235	10
PLC-RSC- 24DC/21-21 ³⁾	2967060	10
PLC-RSC- 24UC/21-21 ³⁾	2967073	10
PLC-RSC- 48DC/21-21 ³⁾	2967248	10
PLC-RSC- 60DC/21-21 ³⁾	2967293	10
PLC-RSC-120UC/21-21 ³⁾	2967086	10
PLC-RSC-230UC/21-21 ³⁾	2967099	10
PLC-RSP- 12DC/21-21 ³⁾	2912497	10
PLC-RSP- 24DC/21-21 ³⁾	2912507	10
PLC-RSP- 24UC/21-21 ³⁾	2912510	10
PLC-RSP- 48DC/21-21 ³⁾	2912523	10
PLC-RSP- 60DC/21-21 ³⁾	2912536	10
PLC-RSP-120UC/21-21 ³⁾	2912549	10
PLC-RSP-230UC/21-21 ³⁾	2912552	10
PLC-RPT- 12DC/21-21 ³⁾	2900329	10
PLC-RPT- 24DC/21-21 ³⁾	2900330	10
PLC-RPT- 24UC/21-21 ³⁾	2900332	10
PLC-RPT- 48DC/21-21 ³⁾	2900333	10
PLC-RPT- 60DC/21-21 ³⁾	2900334	10
PLC-RPT-120UC/21-21 ³⁾	2900335	10
PLC-RPT-230UC/21-21 ³⁾	2900336	10

Ordering data

Type	Order No.	Pcs. / Pkt.
PLC-RSC- 12DC/21-21AU ³⁾	2967277	10
PLC-RSC- 24DC/21-21AU ³⁾	2967125	10
PLC-RSC- 24UC/21-21AU ³⁾	2967112	10
PLC-RSC- 48DC/21-21AU ³⁾	2967280	10
PLC-RSC- 60DC/21-21AU ³⁾	2967303	10
PLC-RSC-120UC/21-21AU ³⁾	2967138	10
PLC-RSC-230UC/21-21AU ³⁾	2967141	10
PLC-RSP- 12DC/21-21AU ³⁾	2912565	10
PLC-RSP- 24DC/21-21AU ³⁾	2912578	10
PLC-RSP- 24UC/21-21AU ³⁾	2912581	10
PLC-RSP- 48DC/21-21AU ³⁾	2912594	10
PLC-RSP- 60DC/21-21AU ³⁾	2912604	10
PLC-RSP-120UC/21-21AU ³⁾	2912617	10
PLC-RSP-230UC/21-21AU ³⁾	2912620	10
PLC-RPT- 12DC/21-21AU ³⁾	2900337	10
PLC-RPT- 24DC/21-21AU ³⁾	2900338	10
PLC-RPT- 24UC/21-21AU ³⁾	2900339	10
PLC-RPT- 48DC/21-21AU ³⁾	2900340	10
PLC-RPT- 60DC/21-21AU ³⁾	2900341	10
PLC-RPT-120UC/21-21AU ³⁾	2900342	10
PLC-RPT-230UC/21-21AU ³⁾	2900343	10