



Automatización Eléctrica
Especialistas en Automatización

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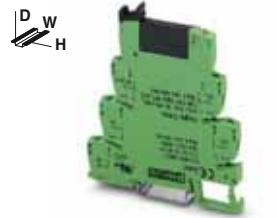
Universal PLC series with solid-state relays

PLC-O... is the solid-state relay series that can be used universally consisting of basic terminal blocks and plug-in solid-state relays.

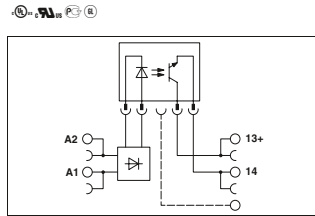
- The advantages:
- Slim design
 - Screw, spring-cage, and push-in technology
 - Functional plug-in bridges
 - Integrated input circuit
 - RT-III sealed solid-state relays
 - High switching capacity
 - Zero voltage switch at AC output
 - Efficient connection to system cabling using V8 adapter

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...
For derating curves see page 345
1) EMC: Class A product, see page 571



Max. DC voltage output of 100 mA

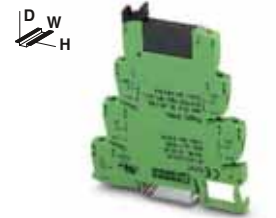


Technical data

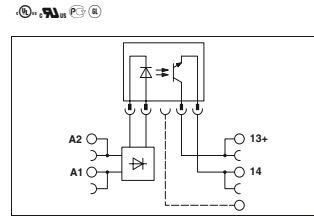
Input data	①	②	③	④	⑤	⑥
Permissible range (with reference to U _N)	0.8 - 1.2	0.8 - 1.2	0.8 - 1.1	0.8 - 1.1	0.9 - 1.1	0.9 - 1.1
Switching level (with reference to U _N)	1 signal ("H") 0 signal ("L")	≥ 0.8 ≤ 0.4	≥ 0.8 ≤ 0.3	≥ 0.8 ≤ 0.4	≥ 0.8 ≤ 0.3	≥ 0.9 ≤ 0.3
Typ. input current at U _N	[mA]	8.5	9	5	3	3.5
Typ. switch-on time at U _N	[ms]	0.02	0.03	0.04	1	3
Typ. switch-off time at U _N	[ms]	0.3	0.3	2	3	4
Transmission frequency f _{max}	[Hz]	300	300	100	50	10
Input circuit DC		Yellow LED, Protection against polarity reversal, freewheeling diode				
Input circuit AC/DC		Yellow LED, Bridge rectifier				
Output data		48 V DC				
Max. switching voltage		3 V DC				
Min. switching voltage		-				
Max. inrush current		-/ 100 mA				
Min./max. switching current		Protection against polarity reversal, Surge protection				
Output protection		≤ 1 V				
Voltage drop at max. limiting continuous current		-				
Leakage current in off state		-				
Phase angle (cos φ)		-				
Max. load value		-				
General data		2.5 kV (50 Hz, 1 min.)				
Test voltage input/output		-25°C ... 60°C				
Ambient temperature (operation)		IEC 60664, EN 50178, IEC 62103				
Standards/regulations		2 / III				
Pollution degree/surge voltage category		0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14				
Connection data solid / stranded / AWG		6.2 mm / 80 mm / 94 mm				
Dimensions	W / H / D					

Ordering data

Description	Input voltage U _N	Type	Order No.	Pcs. / Pkt.
PLC INTERFACE, with screw connection	24 V DC	PLC-OSC-24DC/ 48DC/100 ¹⁾	2966728	10
	48 V DC	PLC-OSC-48DC/ 48DC/100 ¹⁾	2966993	10
	60 V DC	PLC-OSC-60DC/ 48DC/100 ¹⁾	2967455	10
	125 V DC	PLC-OSC-125DC/ 48DC/100 ¹⁾	2980047	10
	120 V AC (110 V DC)	PLC-OSC-120UC/ 48DC/100 ¹⁾	2966744	10
	230 V AC (220 V DC)	PLC-OSC-230UC/ 48DC/100 ¹⁾	2966757	10
PLC INTERFACE, with spring-cage connection	24 V DC	PLC-OSP-24DC/ 48DC/100 ¹⁾	2967549	10
	48 V DC	PLC-OSP-48DC/ 48DC/100 ¹⁾	2967743	10
	60 V DC	PLC-OSP-60DC/ 48DC/100 ¹⁾	2967756	10
	120 V AC (110 V DC)	PLC-OSP-120UC/ 48DC/100 ¹⁾	2967552	10
	230 V AC (220 V DC)	PLC-OSP-230UC/ 48DC/100 ¹⁾	2967565	10
	PLC-INTERFACE, with push-in connection	24 V DC	PLC-OPT-24DC/ 48DC/100 ¹⁾	2900352
48 V DC		PLC-OPT-48DC/ 48DC/100 ¹⁾	2900353	10
60 V DC		PLC-OPT-60DC/ 48DC/100 ¹⁾	2900354	10
120 V AC (110 V DC)		PLC-OPT-120UC/ 48DC/100 ¹⁾	2900355	10
230 V AC (220 V DC)		PLC-OPT-230UC/ 48DC/100 ¹⁾	2900356	10



Max. DC voltage output of 3 A

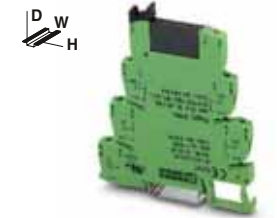


Technical data

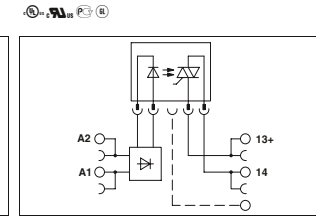
Input data	①	②	③	④	⑤	⑥
Permissible range (with reference to U _N)	0.8 - 1.2	0.8 - 1.2	0.8 - 1.1	0.8 - 1.1	0.9 - 1.1	0.9 - 1.1
Switching level (with reference to U _N)	1 signal ("H") 0 signal ("L")	≥ 0.8 ≤ 0.4	≥ 0.8 ≤ 0.3	≥ 0.8 ≤ 0.4	≥ 0.8 ≤ 0.3	≥ 0.8 ≤ 0.3
Typ. input current at U _N	[mA]	8.5	9	5	3	3.5
Typ. switch-on time at U _N	[ms]	0.02	0.03	0.04	0.04	3.5
Typ. switch-off time at U _N	[ms]	0.3	0.3	0.5	0.6	7
Transmission frequency f _{max}	[Hz]	300	300	100	100	10
Input circuit DC		Yellow LED, Protection against polarity reversal, freewheeling diode				
Input circuit AC/DC		Yellow LED, Bridge rectifier				
Output data		33 V DC				
Max. switching voltage		3 V DC				
Min. switching voltage		15 A (10 ms)				
Max. inrush current		-/ 3 A (see derating curve)				
Min./max. switching current		Protection against polarity reversal, Surge protection				
Output protection		≤ 200 mV				
Voltage drop at max. limiting continuous current		-				
Leakage current in off state		-				
Phase angle (cos φ)		-				
Max. load value		-				
General data		2.5 kV (50 Hz, 1 min.)				
Test voltage input/output		-25°C ... 60°C				
Ambient temperature (operation)		IEC 60664, EN 50178, IEC 62103				
Standards/regulations		2 / III				
Pollution degree/surge voltage category		0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14				
Connection data solid / stranded / AWG		6.2 mm / 80 mm / 94 mm				
Dimensions	W / H / D					

Ordering data

Description	Input voltage U _N	Type	Order No.	Pcs. / Pkt.
PLC INTERFACE, with screw connection	24 V DC	PLC-OSC-24DC/ 24DC/ 2 ¹⁾	2966634	10
	48 V DC	PLC-OSC-48DC/ 24DC/ 2 ¹⁾	2967002	10
	60 V DC	PLC-OSC-60DC/ 24DC/ 2 ¹⁾	2967468	10
	125 V DC	PLC-OSC-125DC/ 24DC/ 2 ¹⁾	2980050	10
	120 V AC (110 V DC)	PLC-OSC-120UC/ 24DC/ 2 ¹⁾	2966650	10
	230 V AC (220 V DC)	PLC-OSC-230UC/ 24DC/ 2 ¹⁾	2966663	10
PLC INTERFACE, with spring-cage connection	24 V DC	PLC-OSP-24DC/ 24DC/ 2 ¹⁾	2967471	10
	48 V DC	PLC-OSP-48DC/ 24DC/ 2 ¹⁾	2967727	10
	60 V DC	PLC-OSP-60DC/ 24DC/ 2 ¹⁾	2967730	10
	120 V AC (110 V DC)	PLC-OSP-120UC/ 24DC/ 2 ¹⁾	2967484	10
	230 V AC (220 V DC)	PLC-OSP-230UC/ 24DC/ 2 ¹⁾	2967497	10
	PLC-INTERFACE, with push-in connection	24 V DC	PLC-OPT-24DC/ 24DC/2 ¹⁾	2900364
48 V DC		PLC-OPT-48DC/ 24DC/2 ¹⁾	2900365	10
60 V DC		PLC-OPT-60DC/ 24DC/2 ¹⁾	2900366	10
120 V AC (110 V DC)		PLC-OPT-120UC/ 24DC/2 ¹⁾	2900367	10
230 V AC (220 V DC)		PLC-OPT-230UC/ 24DC/2 ¹⁾	2900368	10



Max. AC voltage output of 750 mA



Technical data

Input data	①	②	③	④	⑤	⑥
Permissible range (with reference to U _N)	0.8 - 1.2	0.8 - 1.2	0.8 - 1.1	0.8 - 1.1	0.9 - 1.1	0.9 - 1.1
Switching level (with reference to U _N)	1 signal ("H") 0 signal ("L")	≥ 0.8 ≤ 0.25	≥ 0.8 ≤ 0.25	≥ 0.8 ≤ 0.3	≥ 0.8 ≤ 0.3	≥ 0.8 ≤ 0.25
Typ. input current at U _N	[mA]	8	9	6	3.5	4
Typ. switch-on time at U _N	[ms]	10	10	10	10	10
Typ. switch-off time at U _N	[ms]	10	10	10	10	10
Transmission frequency f _{max}	[Hz]	10	10	10	3	3
Input circuit DC		Yellow LED, Protection against polarity reversal, freewheeling diode				
Input circuit AC/DC		Yellow LED, Bridge rectifier				
Output data		253 V AC				
Max. switching voltage		24 V AC				
Min. switching voltage		30 A (10 ms)				
Max. inrush current		10 mA / 0.75 A (see derating curve)				
Min./max. switching current		RCV circuit				
Output protection		< 1 V				
Voltage drop at max. limiting continuous current		< 1 mA (in off state)				
Leakage current in off state		0.5				
Phase angle (cos φ)		4.5 A ^s				
Max. load value		-				
General data		2.5 kV (50 Hz, 1 min.)				
Test voltage input/output		-25°C ... 60°C				
Ambient temperature (operation)		IEC 60664, EN 50178, IEC 62103				
Standards/regulations		2 / III				
Pollution degree/surge voltage category		0.14 - 2.5 mm ² / 0.14 - 2.5 mm ² / 26 - 14				
Connection data solid / stranded / AWG		6.2 mm / 80 mm / 94 mm				
Dimensions	W / H / D					

Ordering data

Description	Input voltage U _N	Type	Order No.	Pcs. / Pkt.
PLC INTERFACE, with screw connection	24 V DC	PLC-OSC-24DC/ 230AC/ 1 ¹⁾	2967840	10
	48 V DC	PLC-OSC-48DC/ 230AC/ 1 ¹⁾	2967853	10
	60 V DC	PLC-OSC-60DC/ 230AC/ 1 ¹⁾	2967866	10
	125 V DC	PLC-OSC-125DC/ 230AC/ 1 ¹⁾	2980053	10
	120 V AC (110 V DC)	PLC-OSC-120UC/ 230AC/ 1 ¹⁾	2967879	10
	230 V AC (220 V DC)	PLC-OSC-230UC/ 230AC/ 1 ¹⁾	2967882	10
PLC INTERFACE, with spring-cage connection	24 V DC	PLC-OSP-24DC/ 230AC/ 1 ¹⁾	2967895	10
	48 V DC	PLC-OSP-48DC/ 230AC/ 1 ¹⁾	2967905	10
	60 V DC	PLC-OSP-60DC/ 230AC/ 1 ¹⁾	2967918	10
	120 V AC (110 V DC)	PLC-OSP-120UC/ 230AC/ 1 ¹⁾	2967921	10
	230 V AC (220 V DC)	PLC-OSP-230UC/ 230AC/ 1 ¹⁾	2967934	10
	PLC-INTERFACE, with push-in connection	24 V DC	PLC-OPT-24DC/ 230AC/1 ¹⁾	2900369
48 V DC		PLC-OPT-48DC/ 230AC/1 ¹⁾	2900370	10
60 V DC		PLC-OPT-60DC/ 230AC/1 ¹⁾	2900371	10
120 V AC (110 V DC)		PLC-OPT-120UC/ 230AC/1 ¹⁾	2900372	10
230 V AC (220 V DC)		PLC-OPT-230UC/ 230AC/1 ¹⁾	2900374	10

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Product	Code	Reference	Product link
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 120 V AC/110 V DC, output: 3 - 33 V DC/3 A	2967484	PLC-OSP-120UC/ 24DC/ 2	Buy on EAN
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 48 V DC, output: 3 ... 33 V DC/3 A	2967727	PLC-OSP- 48DC/ 24DC/ 2	Buy on EAN
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 60 V DC, output: 3 ... 33 V DC/3 A	2967730	PLC-OSP- 60DC/ 24DC/ 2	Buy on EAN
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 48 V DC, output: 3 - 48 V DC/100 mA	2967743	PLC-OSP- 48DC/ 48DC/100	Buy on EAN
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 60 V DC, output: 3 - 48 V DC/100 mA	2967756	PLC-OSP- 60DC/ 48DC/100	Buy on EAN
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 48 V DC, output: 24 - 253 V AC/0.75 A	2967905	PLC-OSP- 48DC/230AC/ 1	Buy on EAN

PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 60 V DC, output: 24 ... 253 V AC/0.75 A	2967918	PLC-OSP-60DC/230AC/ 1	Buy on EAN
PLC-INTERFACE, consisting of PLC-BSP... basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 120 V AC/110 V DC, output: 24 - 253 V AC/0.75 A	2967921	PLC-OSP-120UC/230AC/ 1	Buy on EAN