

Accessories

Description	Type	Order No.	Pcs./Pck.
Insulating plate	PLC-ATP BK	2966841	25



The PLC-ATP BK insulating plate should be used in the following cases: always fit at the start and end of a PLC terminal strip for voltages greater than 250 V (L1, L2, L3) between the same terminal points on adjacent modules (FBST 8-PLC... or FBST 500... can be used for potential bridging) and for safe isolation between adjacent modules.

For additional accessories such as power terminal blocks and plug-in bridges, please refer to the INTERFACE catalog or www.phoenixcontact.com.

3 Technical Data

Input Data	...24DC...	...24UC...	...120UC...	...230UC...
Nominal input voltage ¹	24 V DC	24 V AC/DC	120 V AC/ 110 V DC	230 V AC/ 220 V DC
Permissible range (with reference to U_N)	See "Operating Voltage Ranges" on page 5			
Typical input current at U_N	9 mA	11 mA/8.5 mA	3.5 mA/3 mA	3 mA
Typical response time at U_N	4 ms	6 ms	6 ms	7 ms
Typical release time at U_N	8 ms	15 ms	15 ms	15 ms
Input circuit	Yellow LED, protection against polarity reversal, free- wheeling diode	Yellow LED, bridge rectifier		

¹ The PLC-ATP BK insulating plate must be installed for voltages greater than 250 V (L1, L2, L3) between the same terminal points on adjacent modules (see "Accessories"). FBST 8-PLC... or FBST 500... is then used for potential bridging.

Output Data	PLC-...21	PLC-...21AU
Contact type	Single contact, SPDT	
Contact material	AgSnO	AgSnO + 5 μ A ¹
Maximum switching voltage	250 V AC/DC ²	30 V AC/36 V DC
Minimum switching voltage	12 V AC/DC	100 mV
Limiting continuous current	6 A	50 mA
Maximum inrush current	30 A (for AC 15 operation)	50 mA
Minimum switching current	10 mA	1 mA
Maximum shutdown power	Ohmic load $\tau = 0$ ms	Ohmic load $\tau = 0$ ms
	24 V DC	140 W
	48 V DC	20 W
	60 V DC	18 W
	110 V DC	23 W
	220 V DC	40 W
	250 V AC	1500 VA
Minimum switching power	120 mW	10 μ W

¹ If the specified maximum values are exceeded, the gold coating will be damaged. In subsequent operation, the AgSnO contact values given here will apply. This can then result in reduced service life, similar to dedicated power contacts.

² The PLC-ATP BK insulating plate must be installed for voltages greater than 250 V (L1, L2, L3) between the same terminal points on adjacent modules (see "Accessories"). FBST 8-PLC... or FBST 500... is then used for potential bridging.

General Data

Impulse voltage withstand level	4 kV, 50 Hz, 1 min.
Ambient temperature range	
Operation	-25°C ... 60°C (230 V type -25°C ... 55°C)
Storage/transport	-40°C ... 85°C
Nominal operating mode	100% operating factor
Inflammability class according to UL 94 (housing)	V0
Mechanical service life	2 x 10 ⁷ cycles

General Data (Continued)

Air and creepage distances between the circuits ¹	IEC 60664, IEC 60664 A, DIN VDE 0110, DIN EN 50178/VDE 0106-160, IEC 60255/DIN VDE 0435
Pollution degree	3
Surge voltage category	III
Mounting position	Any
Mounting	Can be aligned without spacing
Conductor cross-section	
Solid, with screw connection	0.14 mm ² ... 2.5 mm ² (26 - 14 AWG)
Stranded, with screw connection	0.14 mm ² ... 1.5 mm ² (26 - 14 AWG)
Solid, with spring-cage connection	0.2 mm ² ... 2.5 mm ² (24 - 14 AWG)
Stranded, with spring-cage connection	0.2 mm ² ... 1.5 mm ² (24 - 14 AWG)
Stripping length	
Screw connection	10 mm
Spring-cage connection	8 mm
Dimensions (W x H x D)	6.2 mm x 94 mm x 80 mm
Housing material	Polyamide PA, green

¹ The PLC-ATP BK insulating plate must be installed for safe isolation between adjacent modules (see "Accessories"). FBST 8-PLC... or FBST 500... is then used for potential bridging.

Tests/Approvals

CE

CE

UL

UL US

GL

GL

4 Block Diagram