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PLC-INTERFACE for protection against interference currents or interference voltages on the control side. Consisting of PLC-BSC-120UC/21/SO46 basic terminal block with screw connection and plug-in miniature relay with power contact up to 6 A, 1 changeover contact, input voltage: 120 V AC

Your advantages

- · Slim design
- · Resistant to interference currents
- · Efficient connection to system cabling using V8 adapter
- · Safe isolation according to DIN EN 50178 between coil and contact
- · RT III sealed relay
- Functional plug-in bridges



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Commercial Data

Order Key	5603593
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
GTIN	4046356686143
Weight per Piece (including packing)	41.0 GRM
Weight per Piece (excluding packing)	41.0 GRM
Customs tariff number	85364900



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Technical Data

Environmental and real-life conditions

Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Degree of protection	RT III (Relay)
	IP20 (Relay base)
	IP54 (Installation location)
Altitude	≤ 2000 m

Output data

Switching

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)
Min. switching current	10 mA (at 12 V)
Contact material	AgSnO
Contact type	1 PDT
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)
Limiting continuous current	6 A
Minimum switching voltage	5 V (at 100 mA)
Type of switch contact	Single contact
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)

Input data

Coil side

Coil voltage	60 V DC
Typical release voltage	50 V AC
Typical release time	20 ms
Nominal input voltage U _N	120 V AC
	110 V DC
Status display	Yellow LED



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Typical response time	7 ms
Typical input current at U _N	7 mA (50 Hz)
	8 mA (60 Hz)
Protective circuit	Bridge rectifier
	RC element
Mains frequency	50/60 Hz
Notes	
General	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
	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
	The PLC-ATP separating plate is required at the start and end of every PLC terminal strip.
	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Trade restriction	
CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
Environmental Product Compliance	
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
Electrical properties	
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Dimensions	
Height	80 mm
Width	6.2 mm
Depth	94 mm
Material specifications	
Color	gray
Flammability rating according to UL 94	V0 (Housing)
Mounting	
Mounting position	anv
woulding position	any



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Mechanical service life

Assembly instructions	In rows with zero spacing
Mounting type	DIN rail mounting
roval data	
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
nnection data	
Coil side	
Conductor cross section AWG	26 14
Screw thread	M 3
Conductor cross section solid	0.14 mm ² 2.5 mm ²
Stripping length	8 mm
Connection method	Screw connection
Conductor cross section flexible	0.14 mm ² 2.5 mm ²
Contact side	
Conductor cross section AWG	26 14
Screw thread	М 3
Conductor cross section solid	0.14 mm ² 2.5 mm ²
Stripping length	8 mm
Connection method	Screw connection
Conductor cross section flexible	0.14 mm ² 2.5 mm ²
andards and regulations Air clearances and creepage distances between the power	er circuits
Standards/regulations	DIN EN 50178
Standards/regulations	
Standards/regulations Standards/regulations	EN 50178
Gianual us/regulations	EN 61810
	LINUTUIU
oduct properties	
Operating mode	100% operating factor
Application	Filter to prevent interference
Set consists of	2980319 PLC-BSC-120UC/21/SO46
	0004440 PEL MP 00P0/04

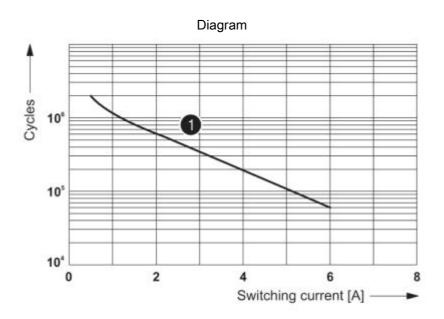
2961118 REL-MR- 60DC/21

2x 10⁷ cycles



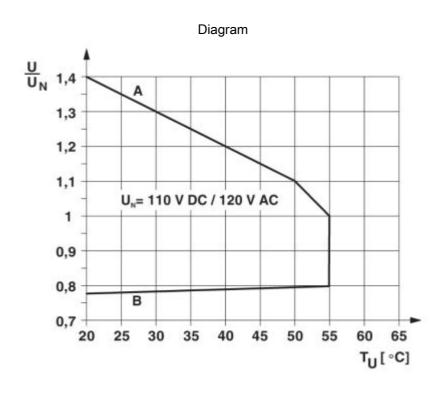
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Drawings



1 250 V AC, ohmic load

Electrical service life



Curve A

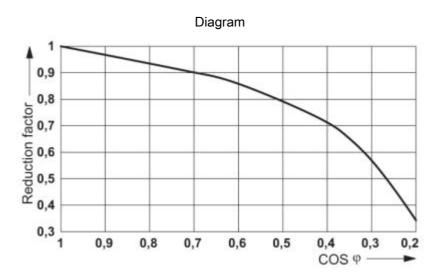
 $Maximum\ permissible\ continuous\ voltage\ U_{max}\ with\ limiting\ continuous\ current\ on\ the\ contact\ side\ (see\ relevant\ technical\ data)$

Curve B

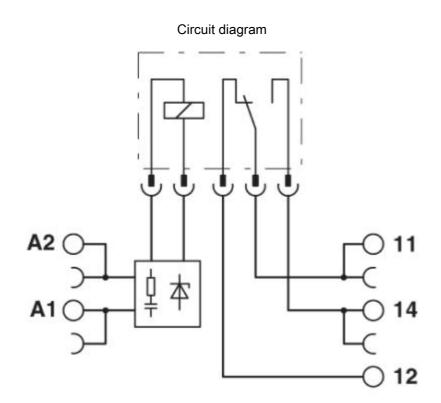
Minimum permissible operate voltage \mathbf{U}_{op} after pre-excitation (see relevant technical data)



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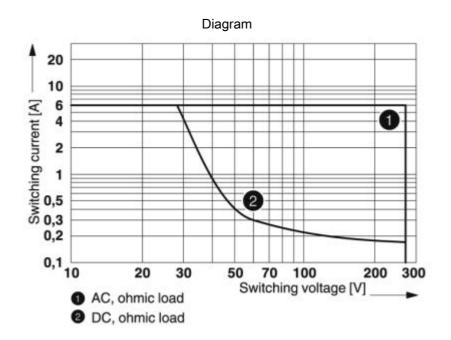


Service life reduction factor





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Interrupting rating



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Approvals
UL Listed
UL Recognized 91
cUL Recognized 91
cUL Listed
DNV GL
EAC IN
EAC IN
cULus Recognized
cULus Listed



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Accessories

Partition plate

Partition plate - PLC-ATP BK - 2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

DIN rail

DIN rail - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/15 AL UNPERF 2000MM - 1201756



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DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail

DIN rail - NS 35/15 PERF 2000MM - 1201730



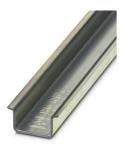
DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail



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DIN rail - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail

DIN rail - NS 35/7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver



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DIN rail

DIN rail - NS 35/7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/7,5 V2A UNPERF 2000MM - 0801377



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Stainless steel V2A, uncoated, length: 2000 mm, color: silver

Screwdriver tools

Screwdriver tools - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6×3 . 5×100 mm, 2-component grip, with non-slip grip



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Terminal marking

Terminal marking - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Terminal marking

Terminal marking - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Power module

Power module - PLC-ESK GY - 2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5



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