PLC-RSC-120UC/21/SO46 - Relay Module

5603593

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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

Commercial data

Item number	5603593
Packing unit	10 pc
Sales key	C462
Product key	CK6211
GTIN	4046356686143
Weight per piece (including packing)	40.985 g
Weight per piece (excluding packing)	40.985 g
Customs tariff number	85364900
Country of origin	DE

PLC-RSC-120UC/21/SO46 - Relay Module

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Set consists of

PLC-BSC-120UC/21/SO46 - Relay base

2980319

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6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

REL-MR- 60DC/21 - Single relay

2961118

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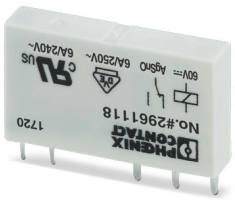

Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 60 V DC

Technical data

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....
General	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
General	The PLC-ATP separating plate is required at the start and end of every PLC terminal strip.
General	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.

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Filter to prevent interference
Operating mode	100% operating factor
Mechanical service life	2x 10^7 cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3

Electrical properties

Maximum power dissipation for nominal condition	0.84 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage U_N	120 V AC
	110 V DC
Input voltage range	93.6 V AC ... 168 V AC (20 °C)
	85.8 V DC ... 154 V DC (20 °C)
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	7 mA (50 Hz)
	8 mA (60 Hz)

Typical response time	7 ms
Typical release time	20 ms
Typical release voltage	50 V AC
Coil voltage	60 V DC
Protective circuit	Bridge rectifier
	RC element
Status display	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
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... or ...FBST 500...)
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	140 W (24 V DC)
	20 W (48 V DC)
	18 W (60 V DC)
	23 W (110 V DC)
	40 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity min.	0.12 W
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)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Tightening torque	0.6 Nm ... 0.8 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

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

Approvals

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

Standards/regulations

Standards/regulations	EN 50178
	EN 61810

Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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