

# PLC-RSC-230UC/21HC/SO46 - Relay Module



1125943

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PLC-INTERFACE for protection against interference currents/voltages on the control side. Consisting of PLC-BSC-230UC/21HC/SO46 basic terminal block with screw connection and plug-in miniature relay with power contact up to 10 A, 1 changeover contact, 230 V AC input voltage

## Commercial Data

Item number	1125943
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK621A
GTIN	4063151052973
Weight per Piece (including packing)	78.61 g
Weight per Piece (excluding packing)	56.43 g
Customs tariff number	85364900
Country of origin	DE

## Technical Data

### Notes

General	The PLC-ATP partition plate must be installed for voltages greater than 250 V (L1, L2, L3) between identical terminal blocks on adjacent modules.
General	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
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.
General	The PLC-ATP separating plate is required at the start and end of every PLC terminal strip.

### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Filter to prevent interference
Operating mode	100% operating factor
Mechanical service life	approx. $3 \times 10^7$ cycles

### Insulation characteristics

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

### Electrical properties

Maximum power dissipation for nominal condition	2.3 W
Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)

### Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV (Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths)

### Input data

#### Coil side

Nominal input voltage $U_N$	230 V AC
	220 V DC
Input voltage range	179.4 V AC ... 264.5 V AC (20 °C)
	171.6 V DC ... 253 V DC (20 °C)
Mains frequency	50/60 Hz
Drive and function	monostable

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Drive (polarity)	polarized
Typical input current at $U_N$	8.5 mA (50 Hz)
	10 mA (60 Hz)
Typical response time	7 ms
Typical release time	10 ms
Typical release voltage	60 V AC
Coil voltage	110 V DC
Protective circuit	RC element
	Bridge rectifier
Status display	Yellow LED

## Output data

### Switching

Contact type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	6 A
	10 A (value applies to connections 12. If connections 12 are bridged, the normal value applies.)
Maximum inrush current	30 A (300 ms, N/O contact)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	240 W (24 V DC, value is valid for connections 12. If connections 12 are bridged, the normal value applies.)
	58 W (48 V DC)
	48 W (60 V DC)
	50 W (110 V DC)
	80 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity	2500 W (250 V AC, value is valid for connections 12. If connections 12 are bridged, the normal value applies.)
	2 A (DC13, 24 V)
	0.2 A (DC13, 250 V)
	6 A (AC15, 24 V)
	6 A (AC15, 250 V)

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

## Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT II (Relay)
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

### Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60947-5-1
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## Mounting

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

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