

# Relay Module - PLC-RPT-230UC/21HC/MS - 2910534

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PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED, Push-in connection, 1 PDT, Input voltage: 230 V AC / 220 V DC



## Key Commercial Data

Packing unit	10 pc
GTIN	
GTIN	4055626486857

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	14 mm
Height	80 mm
Depth	104 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Maximum altitude	2000 m

### Coil side

Nominal input voltage $U_N$	230 V AC
	220 V DC
Typical input current at $U_N$	5 mA
Typical response time	6 ms (220 V DC)
	3 ms ... 15 ms (230 V AC)

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## Technical data

### Coil side

Typical release time	8 ms (220 V DC)
Typical release time range	3 ms ... 15 ms (230 V AC)
Protective circuit	Bridge rectifier Bridge rectifier
Operating voltage display	Yellow LED

### Contact side

Contact type	1 PDT
Type of switch contact	Single contact
Contact material	AgNi
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	12 V (10 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	24 A (20 ms)
Limiting continuous current	10 A
Interrupting rating (ohmic load) max.	264 W (24 V DC)
	62 W (48 V DC)
	48 W (60 V DC)
	52 W (110 V DC)
	66 W (220 V DC)
	2750 VA (250 V AC)
Switching capacity	2 A (24 V, DC13)
	3 A (230 V, AC15)

### Connection data 1

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14

### Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)

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## Technical data

### Connection data 2

	2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14

### General

Test voltage relay winding/relay contact	4 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT II (Relay)
	IP20 (Relay base)
Mechanical service life	5x 10 <sup>6</sup> cycles
UL, USA	UL 508
	UL 508 Recognized
UL, USA/Canada	cUL 508
	cUL 508 Recognized
Mounting position	any
Assembly instructions	In rows with zero spacing

### Standards and Regulations

Designation	Standards/regulations
Standards/regulations	EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Degree of pollution	2
Overvoltage category	III
Flammability rating according to UL 94	V0
UL, USA	UL 508
	UL 508 Recognized
UL, USA/Canada	cUL 508
	cUL 508 Recognized

### Environmental Product Compliance

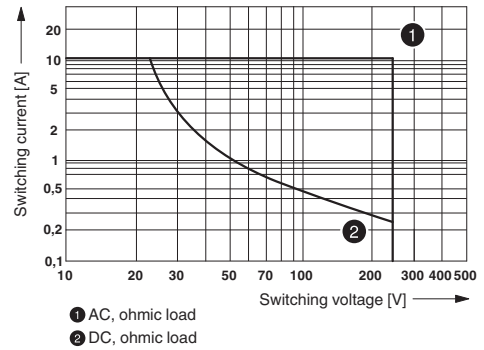
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

# Relay Module - PLC-RPT-230UC/21HC/MS - 2910534

Diagram

Diagram

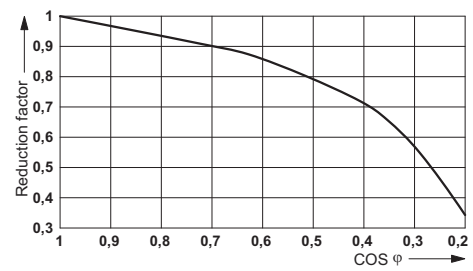
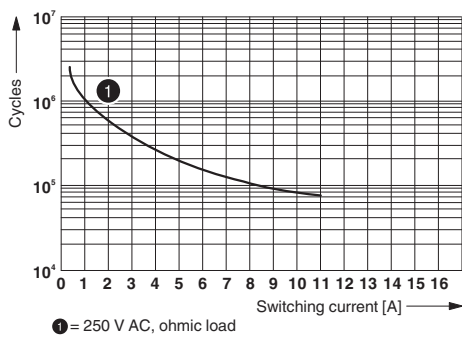


Operating voltage range

Interrupting rating

Diagram

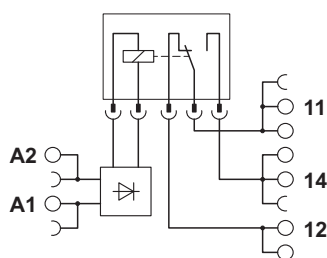
Diagram



Electrical service life

Service life reduction factor

Circuit diagram



## Articles in set

Relay base - PLC-BPT-230UC/21HC/H - 1012304



14 mm PLC basic terminal block without relay, for mounting on DIN rail NS 35/7,5, Push-in connection, 1 PDT, Input voltage 230 V AC/DC

# Relay Module - PLC-RPT-230UC/21HC/MS - 2910534

## Articles in set

Single relay - REL-MR-110DC/21HC/MS - 1012737



Plug-in miniature relay, with power contact, 1 changeover contact, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 110 V DC

## Approvals

### Approvals

#### Approvals

UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / cULus Recognized / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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## Relay Module - PLC-RPT-230UC/21HC/MS - 2910534

### Approvals

cULus Recognized



cULus Listed



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