

PLC-RPT- 24DC/21-21/MS - Relay Module



2910519

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PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED and freewheeling diode, Push-in connection, 2 changeover contacts, Freewheeling diode, Input voltage: 24 V DC

Commercial Data

Item number	2910519
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK623C
Catalog Page	Page 368 (C-5-2019)
GTIN	4055626486710
Weight per Piece (including packing)	75 g
Weight per Piece (excluding packing)	64 g
Customs tariff number	85364190
Country of origin	DE

PLC-RPT- 24DC/21-21/MS - Relay Module



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Set consists of

PLC-BPT- 24DC/21-21/H - Relay base

1012141

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14 mm PLC basic terminal block without relay, for mounting on DIN rail NS 35/7,5, Push-in connection, 2 changeover contacts, Input voltage 24 V DC

REL-MR- 24DC/21-21/MS - Single relay

2987943

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Plug-in miniature relay, with power contact, 2 changeover contacts, test button, mechanical switching position indicator, status LED, freewheeling diode, polarity A1+, A2, input voltage 24 V DC

Technical Data

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Palm switch
Operating mode	100% operating factor
Mechanical service life	5x 10 ⁶ cycles

Insulation characteristics

Insulation	Safe isolation of input/output
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Insulation characteristics: Standards/regulations

Insulation	Safe isolation of input/output
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.44 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 V AC (50 Hz, 1 min., changeover contact/changeover contact)

Standards/regulations

Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	20.2 V DC ... 33.6 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	18 mA
Typical response time	10 ms
Typical release time	10 ms
Coil voltage	24 V DC
Protective circuit	Surge protection; Freewheeling diode
Operating voltage display	Yellow LED

Output data

Switching

Contact type	2 changeover contacts
Type of switch contact	Single contact

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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)
Limiting continuous current	6 A
Maximum inrush current	12 A (20 ms)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	192 W (24 V DC)
	62 W (48 V DC)
	42 W (60 V DC)
	55 W (110 V DC)
	66 W (220 V DC)
	2000 VA (250 V AC)
Switching capacity	1 A (24 V, DC13)
	1.5 A (230 V, AC15)

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Dimensions

Width	14 mm
Height	80 mm
Depth	104 mm

Material specifications

Flammability rating according to UL 94	V0 (Housing)
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Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT II (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Altitude	≤ 2000 m

Approvals

PLC-RPT- 24DC/21-21/MS - Relay Module



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UL, USA

Identification	UL 508
	UL 508 Recognized

UL, USA/Canada

Identification	UL 508
	UL 508 Recognized

Corrosive gas test

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

Standards and regulations

Standards/regulations

Standards/regulations	EN 50178
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Mounting

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

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