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Relay Module - PLC-RSC-120UC/21 ATEX - 2902956

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PLC-INTERFACE, consisting of DIN rail-mountable basic terminal block with screw connection and plug-in miniature relay with power contact, 1 PDT, input voltage: 120 V AC/110 V DC, UL/cUL: approved for use in Ex Zone Class I, Div. 2 and ATEX (Zone 2)

Key Commercial Data

Packing unit	10 STK
GTIN	 4 046356 957595

Technical data

Note

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

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (UL)
	-40 °C ... 60 °C (ATEX)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	120 V AC
	110 V DC
Typical input current at U_N	3.5 mA ($U_N = 120$ V AC)
	3 mA ($U_N = 110$ V DC)
Typical response time	6 ms
Typical release time	15 ms
Protective circuit	Bridge rectifier Bridge rectifier
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.4 W

Contact side

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Technical data

Contact side

Contact type	1 PDT
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 (at 100 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	10 A (4 s)
Limiting continuous current	6 A
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)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	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 input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
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Technical data

General

Operating mode	100% operating factor
Degree of protection	RT III (Relay)
Mechanical service life	2 x 10 ⁷ cycles
Flammability rating according to UL 94	V0
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
	EN 60079-0
	EN 60079-15
Degree of pollution	2 (EN 60664-1)
Overvoltage category	III
ATEX	DEMKO 11 ATEX 1111531U
	# II 3 G Ex nA nC IIC Gc
UL, USA	Class I, Zone 2, AEx nA nC IIC T6
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
UL, Canada	Class I, Zone 2, Ex nA nC IIC Gc T6 X
Mounting position	any
Assembly instructions	In rows with zero spacing

Standards and Regulations

Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
	EN 60079-0
	EN 60079-15
Overvoltage category	III
Flammability rating according to UL 94	V0
Conformance	CE-compliant
ATEX	DEMKO 11 ATEX 1111531U
	# II 3 G Ex nA nC IIC Gc
UL, USA	Class I, Zone 2, AEx nA nC IIC T6
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
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Classifications

eCl@ss

eCl@ss 5.1	27371001
eCl@ss 6.0	27371001

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Classifications

eCl@ss

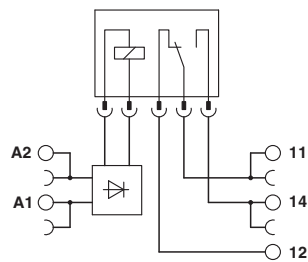
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 5.0	EC001437
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Drawings

Circuit diagram



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