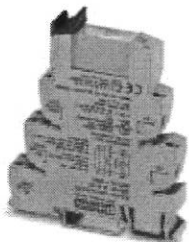


## Relay Module - PLC-RSC- 24DC/21-21/ATEX - 2980461

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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, 2 PDTs, input voltage: 24 V DC, UL/cUL: approved for use in Ex Zone Class I, Div. 2 and ATEX (Zone 2)



### Key Commercial Data

Packing unit	1 STK
Minimum order quantity	10 STK
GTIN	 4 046356 051262
GTIN	4046356051262
Weight per Piece (excluding packing)	78.000 g
Custom tariff number	85364190
Country of origin	Germany

### 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	94 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (UL)
	-40 °C ... 70 °C (ATEX)

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## Technical data

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
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### Coil side

Nominal input voltage $U_N$	24 V DC
Typical input current at $U_N$	18 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection Polarity protection diode
	Free-wheeling diode Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.43 W

### Contact side

Contact type	2 PDT
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	5 V (at 10 mA)
Min. switching current	10 mA (At 5 V)
Maximum inrush current	15 A (300 ms)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 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)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 250 V, AC15)

### General

Test voltage relay winding/relay contact	4 kV (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 kV (50 Hz, 1 min.)
Operating mode	100% operating factor

## Relay Module - PLC-RSC- 24DC/21-21/ATEX - 2980461

### Technical data

#### General

Degree of protection	RT III (Relay)
	IP20 (Relay socket)
Mechanical service life	3 x 10 <sup>7</sup> cycles
Flammability rating according to UL 94	V0
ATEX	DEMKO 03 ATEX 0326050U
	# 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

#### 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 <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>
Conductor cross section AWG	26 ... 14
Torque	0.6 Nm ... 0.8 Nm
	5 lb <sub>f</sub> -in. ... 7 lb <sub>f</sub> -in.

#### 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 <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>
Conductor cross section AWG	26 ... 14
Torque	0.6 Nm ... 0.8 Nm
	5 lb <sub>f</sub> -in. ... 7 lb <sub>f</sub> -in.

#### Standards and Regulations

Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	EN 60079-0

# Relay Module - PLC-RSC- 24DC/21-21/ATEX - 2980461

## Technical data

### Standards and Regulations

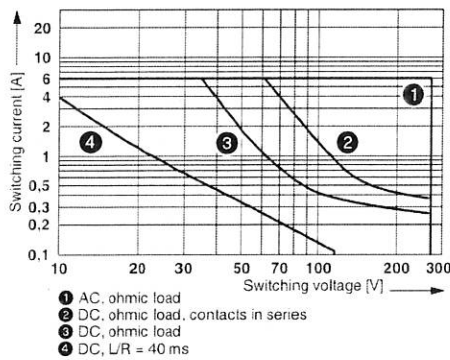
	EN 60079-15
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV
Insulation	Basic insulation
	Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths
Degree of pollution	2
Overvoltage category	III
Flammability rating according to UL 94	V0
Conformance	CE-compliant
ATEX	DEMKO 03 ATEX 0326050U
	# 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

### Environmental Product Compliance

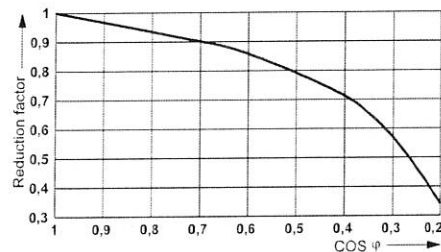
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram



Diagram

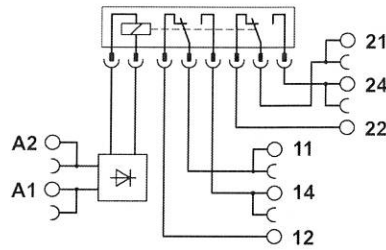


Interrupting rating

Service life reduction factor with various cos phi

# Relay Module - PLC-RSC- 24DC/21-21/ATEX - 2980461

Circuit diagram



## Classifications

eCl@ss

eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334

## Approvals

Approvals

Approvals

EAC / EAC

# Relay Module - PLC-RSC- 24DC/21-21/ATEX - 2980461


## Approvals


Ex Approvals

UL Listed / cUL Listed / ATEX / cULus Listed

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### Approval details

EAC		EAC-Zulassung
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EAC		RU C- DE.A*30.B.01082
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