2909509

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PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 14 mm with screw connection and plug-in relay with power contact, 2 changeover contacts, 24 V DC input voltage. Approved according to ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2.

### **Commercial Data**

Item number	2909509
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6212
Catalog Page	Page 386 (C-5-2019)
GTIN	4055626363134
Weight per Piece (including packing)	78.6 g
Weight per Piece (excluding packing)	70.63 g
Customs tariff number	85364190
Country of origin	DE

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### **Technical Data**

#### Notes

Itilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
oduct properties	
Product type	Relay Module
Product family	PLC-INTERFACE
Application	Class I, Division 2
	potentially explosive areas
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles
nsulation characteristics	
Insulation	Safe isolation, reinforced insulation
nsulation characteristics: Standards/regulations	
Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3
ectrical properties	
ectrical properties Maximum power dissipation for nominal condition	0.43 W
	0.43 W 4 kV AC (50 Hz, 1 min., winding/contact)
Maximum power dissipation for nominal condition	
Maximum power dissipation for nominal condition Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact) 2.5 kV AC (50 Hz, 1 min., changeover contact/changeover
Maximum power dissipation for nominal condition Test voltage (Winding/contact) Test voltage (Changeover contact/changeover contact)	4 kV AC (50 Hz, 1 min., winding/contact) 2.5 kV AC (50 Hz, 1 min., changeover contact/changeover

### Input data

Coil side	
Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	20.2 V DC 33.6 V DC (20 °C)
Typical input current at U <sub>N</sub>	18 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

Output data



#### 2909509

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Contact type	2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	polarized
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 orFBST 500)
Minimum switching voltage	5 V AC/DC (10 mA)
Limiting continuous current	6 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (5 V)
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	2 A (at 24 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)

#### 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>
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> 1.5 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

#### Material specifications

V0 (Housing)



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#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 70 °C (UL)
	-40 °C 70 °C (ATEX / IECEx)
Ambient temperature (storage/transport)	-40 °C 85 °C

#### Approvals

#### CE Certificate CE-compliant ATEX Identification □ II 3G Ex ec nC IIC T4 Gc Certificate IBExU16ATEXB015 X IECEx Identification Ex ec nC IIC T4 Gc Certificate IECEx IBE 16.0029X UKCA Ex (UKEX) Identification □ II 3 G Ex ec nC IIC T4 Gc Certificate PxCIF21UKEX2909514X UL, USA Identification Class I, Zone 2, AEx nA nC IIC T6 UL, USA/Canada Identification Class I, Div. 2, Groups A, B, C, D UL. Canada Identification Class I, Zone 2, Ex nA nC IIC Gc T6 X Corrosive gas test Identification ISA-S71.04. G3 Harsh Group EN 60068-2-60

### Standards and regulations

Standards/regulations	
Standards/regulations	IEC 60947-5-1
	EN 60079-0
	EN 60079-7
	EN 60079-15

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

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