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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 10 A power contact, 1 changeover contact, 24 V DC input voltage. Approved according to ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2.

### Commercial data

Item number	2909519
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK621A
Catalog page	Page 387 (C-5-2019)
GTIN	4055626363479
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

EMC note	EMC: class A product, see manufacturer's declaration in the download area
luct properties	
Product type	Relay Module
Product family	PLC-INTERFACE
Application	High continuous currents
	potentially explosive areas
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles
sulation characteristics	
Insulation	Safe isolation, reinforced insulation
sulation characteristics: Standards/regulations	
Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3
trical properties	
Maximum power dissipation for nominal condition	0.43 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
andards/regulations	
	250 V AC
Rated insulation voltage	

### 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)
Drive and function	monostable
Drive (polarity)	polarized
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

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### Output data

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installe 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	12 V (10 mA)
Limiting continuous current	10 A
	6 A (value applies to connections 12. If connections 12 are bridged, the normal value applies.)
Maximum inrush current	30 A (300 ms)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	2500 VA (for 250□V□AC)
Interrupting rating (ohmic load) max. bridged	144 W (for 24 V DC. Value applies to connections 12. If connections 12 are bridged, the normal value applies.)
	1500 VA (for 250 V AC. Value applies to connections 12. If connections 12 are bridged, the normal value applies.)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	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

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Height	80 mm
Depth	94 mm
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base) -40 °C 70 °C (UL)
Ambient temperature (operation)	-40 °C 70 °C (ATEX / IECEx)
Ambient temperature (storage/transport)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 0 05 0
pprovals 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
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

DNV GL data



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Temperature	D
Humidity	A
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board

#### EMC data

Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive

#### Standards and regulations

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

#### Mounting

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

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### Classifications

#### ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

#### ETIM

	ETIM 9.0	EC001437		
UNSPSC				
	UNSPSC 21.0	39122300		

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### Environmental product compliance

REACh SVHC	Lead 7439-92-1 Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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