

2909516

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PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 14 mm with Push-in connection and plug-in relay with power contact, 2 changeover contacts, 230 V AC/220 V DC input voltage. Approved according to ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2.

Commercial data

Item number	2909516
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK6212
Catalog page	Page 386 (C-5-2019)
GTIN	4055626363196
Weight per piece (including packing)	64.76 g
Weight per piece (excluding packing)	64.76 g
Customs tariff number	85364900
Country of origin	DE



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Technical data

Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product 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 ⁷ cycles				

Insulation characteristics

Insulation	Safe isolation, reinforced insulation

Insulation characteristics: Standards/regulations

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3

Electrical properties

Rated surge voltage

Maximum power dissipation for nominal condition	1.04 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV AC (50 Hz, 1 min., changeover contact/changeover contact)
Standards/regulations	
Rated insulation voltage	250 V AC

6 kV

Input data

Coil side

Nominal input voltage U _N	230 V AC					
	220 V DC					
Input voltage range	179.4 V AC/DC 264.5 V AC/DC (20 °C)					
	171.6 V DC 264 V DC (20 °C)					
Drive and function	monostable					
Drive (polarity)	polarized					
Typical input current at U _N	4.5 mA (U _N = 230 V AC)					
	$4.3 \text{ mA } (U_N = 220 \text{ V DC})$					
Typical response time	7 ms					



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Typical release time	10 ms					
Protective circuit	Bridge rectifier; Bridge rectifier					
Operating voltage display	Yellow LED					

Output data

Switching

Contact switching type	2 changeover contacts			
Type of switch contact	Single contact			
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	Push-in connection					
Stripping length	10 mm					
Conductor cross section rigid	0.14 mm² 2.5 mm²					
Conductor cross section flexible	0.14 mm² 2.5 mm²					
	0.2 mm ² 2.5 mm ² (Single ferrule)					
	2x 0.5 mm² 1 mm² (TWIN ferrule)					
Conductor cross section AWG	26 14					

Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

Material specifications



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Flammability rating according to UL 94	V0 (Housing)
Environmental and real-life conditions	
invitorimental and real-life conditions	
Ambient conditions	
Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-20 °C 60 °C (UL)
	-40 °C 55 °C (ATEX / IECEx)
Ambient temperature (storage/transport)	-40 °C 85 °C
Approvals	
CE	
Certificate	CE-compliant
ATEX	
Identification	
Certificate	IBExU16ATEXB015 X
IECEx	
Identification	Ex ec nC IIC T4 Gc
Certificate	IECEx IBE 16.0029X
LIKOA F., (LIKEV)	
UKCA Ex (UKEX)	
Certificate	PxCIF21UKEX2909514X
Continuate	1 XOII 2 TORLX20000 T4X
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	
Temperature	D
Humidity	A
Vibration	B/C
EMC	В



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Enclosure	Required protection according to the Rules shall be provided upon installation on board
MC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
tandards and regulations Standards/regulations	UEO 20047 E 4
Standards/regulations	IEC 60947-5-1
	EN 60079-0
	EN 60079-7
	EN 60079-15
lounting	
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
ΕΊ	ТІМ	
	ETIM 9.0	EC001437
U	NSPSC	
	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

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