

2909648

https://www.phoenixcontact.com/us/products/2909648

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PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature relay with power contact and manual operation, 1 changeover contact, 12 V DC input voltage

Your advantages

· Slim design

Commercial data

Item number	2909648
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK622A
Catalog page	Page 365 (C-5-2019)
GTIN	4055626377834
Weight per piece (including packing)	39.77 g
Weight per piece (excluding packing)	31.06 g
Customs tariff number	85364190
Country of origin	DE



2909648

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Technical data

Notes

Notes on operation	Separating plate PLC-ATP must 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
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Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Palm switch
Operating mode	100% operating factor
Mechanical service life	1x 10 ⁷ cycles

Data management status

Data management status		
Date of last data management	09.07.2024	
Article revision	03	

Electrical properties

Maximum power dissipation for nominal condition	0.18 W	
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)	
Insulation characteristics: Coil/contact		
insulation characteristics. Con/contact		
Rated insulation voltage	250 V	
Rated impulse withstand voltage	6 kV	
Overvoltage category	III	
Degree of pollution	3	

Input data

Coil side

Nominal input voltage U _N	12 V DC
Input voltage range	9.72 V DC 16.8 V DC (20 °C)
Nominal voltage (plugged-in electromechanical relay)	12 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	15.3 mA
Typical response time	5 ms
Typical release time	8 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

Output data



2909648

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Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
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 orFBST 500)
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (12 V)
Short-circuit current	200 A (conditional short-circuit current)
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)
Output fuse	4 A gL/gG NEOZED
Switching capacity	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

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 ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications



2909648

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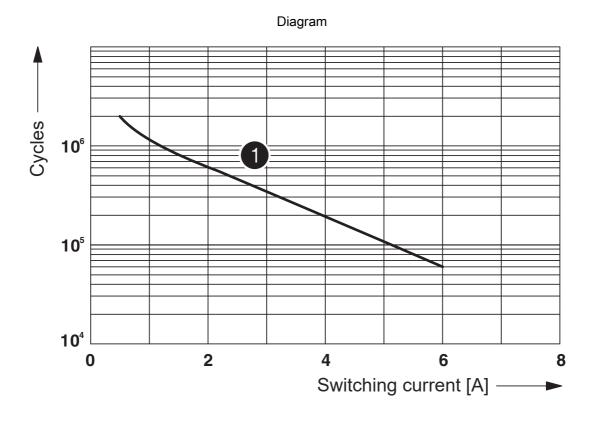
Flammability rating according to UL 94	V0 (Housing)
Environmental and real-life conditions	
Ambient conditions	2711/2
Degree of protection (Relay)	RT II (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Approvals	
CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
identification	EN 60068-2-60
DNV GL data	
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	UEG 20004
Standards/regulations	IEC 60664
	IEC 60947-5-1
<i>l</i> ounting	
Mounting Mounting type	DIN rail mounting
-	DIN rail mounting ()
Mounting type	



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Drawings



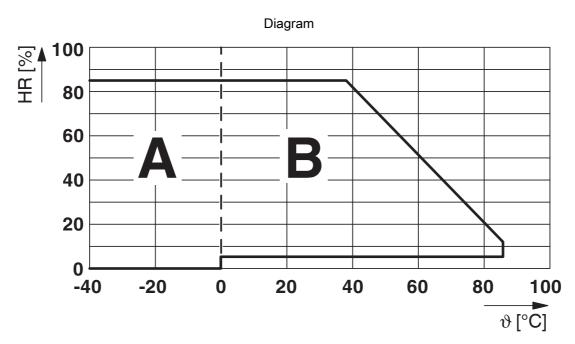
1 250 V AC, ohmic load

Electrical service life



2909648

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Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

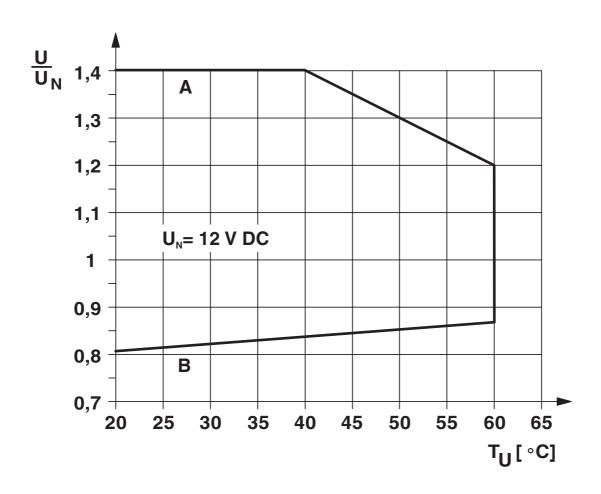
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



2909648

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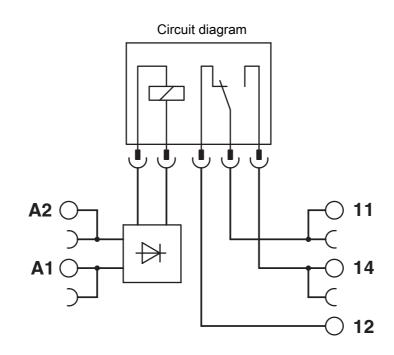
Curve A Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data) Curve B

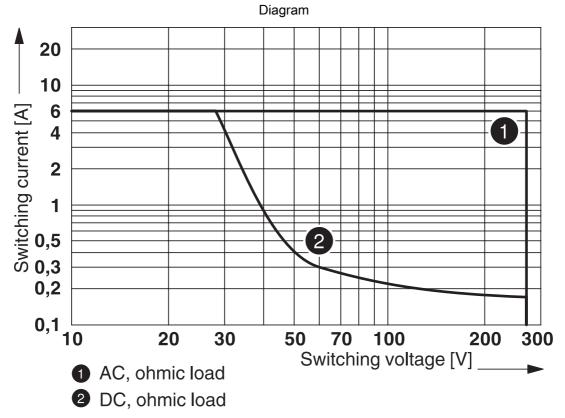
Minimum permissible operate voltage \mathbf{U}_{op} after pre-excitation (see relevant technical data)



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Interrupting rating



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909648



EAC

Approval ID: TR_TS_D_00573_c



DNV GL

Approval ID: TAE0000196



cULus Listed Approval ID: E140324



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Classifications

ECLASS

	ECLASS-11.0	27371601			
	ECLASS-12.0	27371601			
	ECLASS-13.0	27371601			
ET	ETIM				
	ETIM 9.0	EC001437			
UNSPSC					
	UNSPSC 21.0	39122300			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	91a0c4df-2789-42d0-a0cc-cfd0f0936b08

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