

2909667

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with power contact and manual operation, 1 changeover contact, 24 V DC input voltage

Your advantages

- · Slim design
- · Efficient connection to system cabling using V8 adapter
- · RT III sealed relay
- · Safe isolation between coil and contact side
- · Functional plug-in bridges
- · Integrated input circuit and interference suppression circuit

Commercial data

| Item number | 2909667 |
|--------------------------------------|---------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C461 |
| Product key | CK62AA |
| Catalog page | Page 365 (C-5-2019) |
| GTIN | 4055626378008 |
| Weight per piece (including packing) | 34.6 g |
| Weight per piece (excluding packing) | 31.27 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |



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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 |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|------------|
| Date of last data management | 01.07.2024 |
| Article revision | 03 |

Electrical properties

| Maximum power dissipation for nominal condition | 0.22 W |
|-------------------------------------------------|------------------------------------------|
| Test voltage (Winding/contact) | 4 kV AC (50 Hz, 1 min., winding/contact) |
| Insulation characteristics: Coil/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 | 24 V DC |
|------------------------------------------------------|--------------------------------------------------------|
| Input voltage range | 18.5 V DC 33.6 V DC (20 °C) |
| Nominal voltage (plugged-in electromechanical relay) | 24 V DC |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U _N | 9 mA |
| Typical response time | 5 ms |
| Typical release time | 8 ms |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Surge protection; Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data



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Switching

| witching | |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Single contact |
| Contact connection type | Power 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 | 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 | 6.2 mm |
|--------|--------|
| Height | 80 mm |
| Depth | 94 mm |

Material specifications

| Color | gray (RAL 7042) |
|----------------------------------------|-----------------|
| Flammability rating according to UL 94 | V0 (Housing) |



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Environmental and real-life conditions

| 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

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|--------|---|
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| UKCA | |
|-------------|----------------|
| Certificate | UKCA-compliant |

CE-compliant

Shipbuilding approval

Certificate

| 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 |
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |

EMC data

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

Standards and regulations

Standards/regulations

| Standards/regulations | IEC 60664 |
|-----------------------|--------------------------------------------|
| | IEC 60664A |
| | DIN VDE 0110 |
| | IEC 60255/DIN VDE 0435 (in relevant parts) |

Mounting

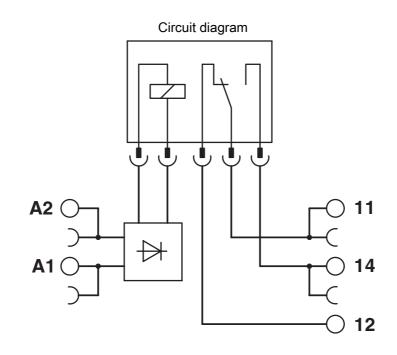
| Mounting type | DIN rail mounting |
|-------------------|---------------------------|
| Assembly note | in rows with zero spacing |
| Mounting position | any |

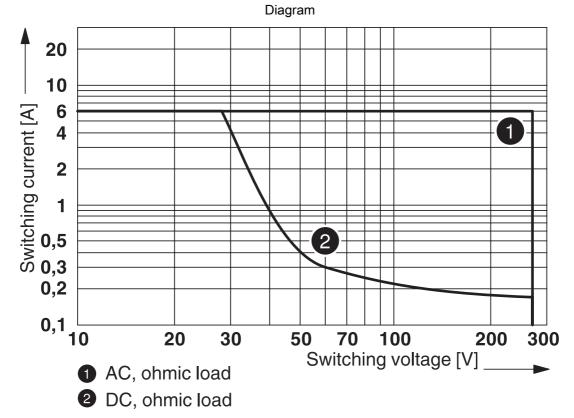


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Drawings



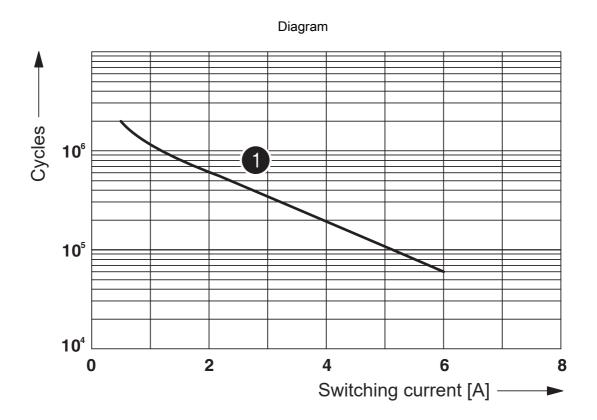


Interrupting rating



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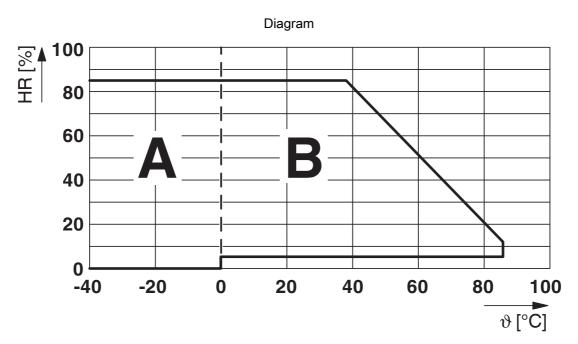
1 250 V AC, ohmic load

Electrical service life



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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

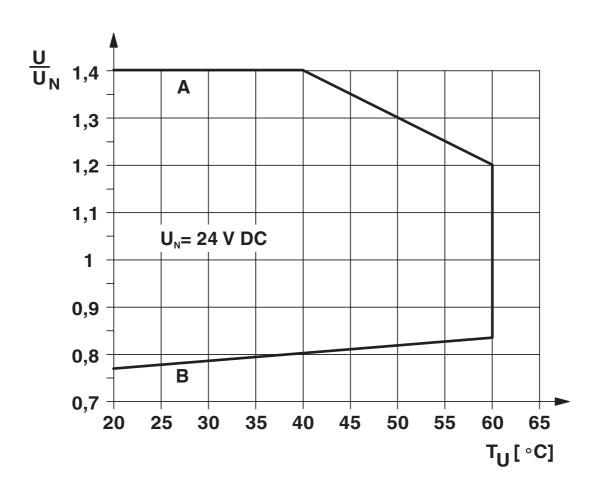
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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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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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909667



EAC

Approval ID: RU*C-DE.*08.B.00010



DNV GL

Approval ID: TAE0000196



cULus Listed Approval ID: E140324



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Classifications

UNSPSC 21.0

ECLASS

| ECLASS-11.0 | 27371601 |
|-------------|----------|
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |
| | |
| ETIM | |
| ETIM 9.0 | EC001437 |
| | |
| UNSPSC | |

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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 | 4b80c176-f525-48fd-bcb2-59c26a749e5b |
| EF3.0 Climate Change | |
| CO2e kg | 0.497 kg CO2e |
| | |

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