

2900388

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PLC-INTERFACE, integrated solid-state relay, with push-in connection, for mounting on NS 35/7,5 DIN rails, input: 120 V AC, output: 12 - 300 V DC/1 A

Your advantages

- · Wear-free switching with no contact bounce
- · Resistant to vibrations and shocks
- · Protective circuit in input and output
- · Status indicator
- DC voltage outputs up to 300 V DC/1 A
- · Option of bridging adjacent modules

Commercial data

| Item number | 2900388 |
|--------------------------------------|--------------------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to order (non-returnable) |
| Sales key | C461 |
| Product key | CK62A3 |
| Catalog page | Page 408 (C-5-2019) |
| GTIN | 4046356506915 |
| Weight per piece (including packing) | 33.28 g |
| Weight per piece (excluding packing) | 33.28 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |



2900388

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Technical data

Product properties

| Product type | Solid-state relay module |
|---|-----------------------------------|
| Product family | PLC-INTERFACE |
| Application | With integrated solid-state relay |
| Operating mode | 100% operating factor |
| Data management status | |
| Date of last data management | 16.09.2024 |
| Article revision | 07 |
| Insulation characteristics: Standards/regulations | |
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |
| ectrical properties | |
| Maximum power dissination for nominal condition | 0.36 W |

Ele

| Maximum power dissipation for nominal condition | 0.36 W |
|---|--------|
| Standards/regulations | |
| Rated insulation voltage | 300 V |
| Rated surge voltage | 2.5 kV |

Input data

| Nominal input voltage U _N | 120 V AC |
|--|------------------------------------|
| Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$ | 0.8 1.1 |
| Input voltage range | 96 V AC 132 V AC |
| Switching threshold "0" signal in reference to $\mathbf{U}_{\mathbf{N}}$ | ≤ 0.4 |
| Switching threshold "1" signal in reference to U _N | ≥ 0.8 |
| Typical input current at U _N | 3 mA |
| Typical response time | 19 ms |
| Typical turn-off time | 6 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| Transmission frequency | 10 Hz |

Output data

| Designation | Output data |
|-----------------------------|---|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Output voltage range | 12 V DC 300 V DC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500) |
| Limiting continuous current | 1 A (see derating curve) |



2900388

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| oltage drop at max. limiting continuous current | < 500 mV |
|---|---|
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Surge protection; Varistor |
| nection 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 mm ² 1 mm ² (TWIN ferrule) |
| Conductor cross section AWG | 26 14 |
| ensions | |
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |
| erial specifications | |
| Color | |
| | gray (RAL 7042) |
| Flammability rating according to UL 94 ronmental and real-life conditions | gray (RAL 7042) V0 (Housing) |
| Flammability rating according to UL 94 rironmental and real-life conditions mbient conditions | V0 (Housing) |
| Flammability rating according to UL 94 ronmental and real-life conditions abient conditions Ambient temperature (operation) | |
| | V0 (Housing) -25 °C 60 °C |
| Flammability rating according to UL 94 vironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals EE Certificate | V0 (Housing) -25 °C 60 °C -40 °C 85 °C |
| Flammability rating according to UL 94 vironmental and real-life conditions ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals E Certificate | V0 (Housing) -25 °C 60 °C -40 °C 85 °C |
| Flammability rating according to UL 94 vironmental and real-life conditions ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals E Certificate UKCA Certificate | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant |
| Flammability rating according to UL 94 rironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals E Certificate KCA Certificate | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant |
| Flammability rating according to UL 94 rironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals E Certificate KCA Certificate hipbuilding approval Certificate | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant |
| Flammability rating according to UL 94 vironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals E Certificate KCA Certificate hipbuilding approval Certificate | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 |
| Flammability rating according to UL 94 Prironmental and real-life conditions Imbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Provals E Certificate KCA Certificate hipbuilding approval Certificate corrosive gas test | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant |
| Flammability rating according to UL 94 vironmental and real-life conditions ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals E Certificate Certificate chipbuilding approval Certificate corrosive gas test Identification | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group |
| Flammability rating according to UL 94 vironmental and real-life conditions ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals CE Certificate Certificate Chipbuilding approval Certificate Corrosive gas test Identification | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group |
| Flammability rating according to UL 94 vironmental and real-life conditions ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals CE Certificate Chipbuilding approval Certificate Corrosive gas test | V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 |



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| 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/regulations | |
| | |
| Standards/regulations | IEC 60947-5-1 |
| Standards/regulations Mounting | IEC 60947-5-1 |
| · · | IEC 60947-5-1 DIN rail mounting |
| Mounting | |

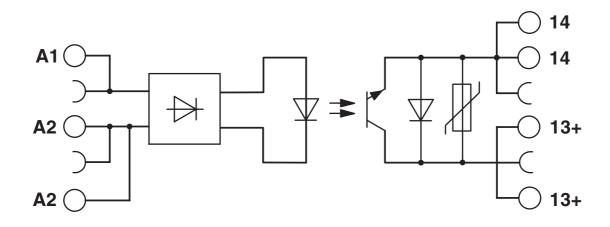


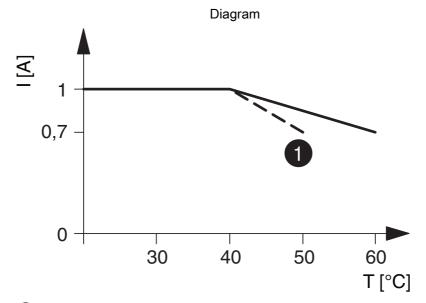
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Drawings

Circuit diagram





1 Input voltages 220 V DC/230 V AC

The figure shows the derating curve for PLC-...300DC/1



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900388



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



EAC

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



DNV GL

Approval ID: TAE0000196



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



cULus Listed

Approval ID: E140324

cULus Recognized

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Classifications

ECLASS

| | ECLASS-11.0 | 27371604 |
|----|-------------|----------|
| | ECLASS-12.0 | 27371604 |
| | ECLASS-13.0 | 27371604 |
| ET | ТІМ | |
| | ETIM 9.0 | EC001504 |
| UN | NSPSC | |
| | 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.) | Lead(CAS: 7439-92-1) |
| SCIP | 84ed5137-986f-46b8-ae1b-48671b162567 |

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