

2980319

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6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

Your advantages

- · Resistant to interference currents
- · High relay release voltage

Commercial data

| Item number | 2980319 |
|--------------------------------------|---------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | 08 |
| Product key | CK622M |
| Catalog page | Page 388 (C-5-2019) |
| GTIN | 4017918895709 |
| Weight per piece (including packing) | 36.6 g |
| Weight per piece (excluding packing) | 30.2 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |



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Technical data

Notes

| Utilization restriction | |
|---|--|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
| oduct properties | |
| Product type | Relay socket |
| Product family | PLC-INTERFACE |
| Application | Filter to prevent interference |
| Operating mode | 100% operating factor |
| Compatible components | Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-60DC/24DC/2, OPT-60DC/230AC/1 |
| Insulation characteristics | |
| Pollution degree | 3 |
| ectrical properties | |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| | RCZ filter; RCZ filter |
| | |
| out data | |
| Nominal input voltage U _N | 120 V AC |
| | 110 V DC |
| | The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circum. |
| Relay assembly | |
| Nominal input voltage U _N | 120 V AC |
| | 110 V DC |
| Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$ | 0.8 1.4 |
| Typical input current at U _N | 7 mA (50 Hz) |
| | 8 mA (60 Hz) |
| Typical response time | 7 ms |
| Typical release time | 20 ms |
| Typical release voltage | 50 V AC |
| Operating voltage display | Yellow LED |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| | Filter; Filter |
| | |
| Optocoupler assembly | |
| Optocoupler assembly Nominal input voltage U _N | 120 V AC |



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| Input voltage range in reference to U _N | 0.85 1.1 |
|--|------------------------------------|
| Typical input current at U _N | 7 mA (50 Hz) |
| | 8 mA (60 Hz) |
| Switching threshold "0" signal in reference to U_N | ≤ 0.4 |
| Typical response time | 6 ms |
| Typical release time | 10 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| | Filter; Filter |

Output data

| Compatible components | Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-60DC/24DC/2, OPT-60DC/230AC/1 |
|--|---|
| Maximum switching voltage | 48 V DC |
| Minimum switching voltage | 3 V DC |
| Limiting continuous current | 100 mA |
| Voltage drop at max. limiting continuous current | < 1 V |
| Output circuit | 2-conductor, floating |
| Protective circuit | Reverse polarity protection |
| | Surge protection |
| Maximum switching voltage | 30 V DC |
| Minimum switching voltage | 3 V DC |
| Limiting continuous current | 3 A |
| Voltage drop at max. limiting continuous current | < 200 mV |
| Maximum inrush current | 15 A (10 ms) |
| Output circuit | 2-conductor, floating |
| Protective circuit | Reverse polarity protection |
| | Surge protection |
| Maximum switching voltage | 253 V AC (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) |
| Minimum switching voltage | 24 V AC |
| Limiting continuous current | 0.75 A |
| Voltage drop at max. limiting continuous current | < 1 V |
| Maximum inrush current | 30 A (10 ms) |
| Output circuit | 2-conductor, floating |
| Protective circuit | RCV circuit |
| Leakage current | < 1 mA |
| Phase angle cos phi min | 0.5 |
| Max. load value | $4.5 \text{ A}^2 \text{s}$ |

Connection data

| Connection method | Screw connection |
|-------------------|------------------|
| Stripping length | 8 mm |



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| 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 |
| Signaling | |
| Status display | LED |
| 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) |
| Ambient conditions Ambient temperature (operation) | -40 °C 55 °C |
| Ambient conditions | |
| Ambient temperature (operation) | -40 °C 55 °C |
| (| 10 0 00 0 |
| Ambient temperature (storage/transport) | -40 °C 85 °C |
| | |
| Ambient temperature (storage/transport) | |
| Ambient temperature (storage/transport) Approvals | |
| Ambient temperature (storage/transport) Approvals CE | -40 °C 85 °C |
| Ambient temperature (storage/transport) Approvals CE Certificate | -40 °C 85 °C |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA | -40 °C 85 °C CE-compliant |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate | -40 °C 85 °C CE-compliant |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval | -40 °C 85 °C CE-compliant UKCA-compliant |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate | -40 °C 85 °C CE-compliant UKCA-compliant |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test | -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test | -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification | -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification DNV GL data | -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification DNV GL data Temperature | -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D |
| Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification DNV GL data Temperature Humidity | -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D A |



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EMC data

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

Mounting

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

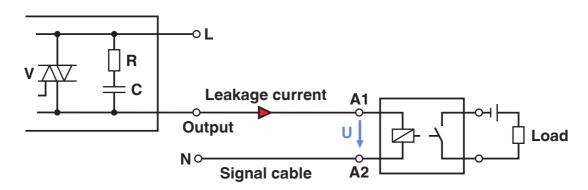


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Drawings

Application drawing



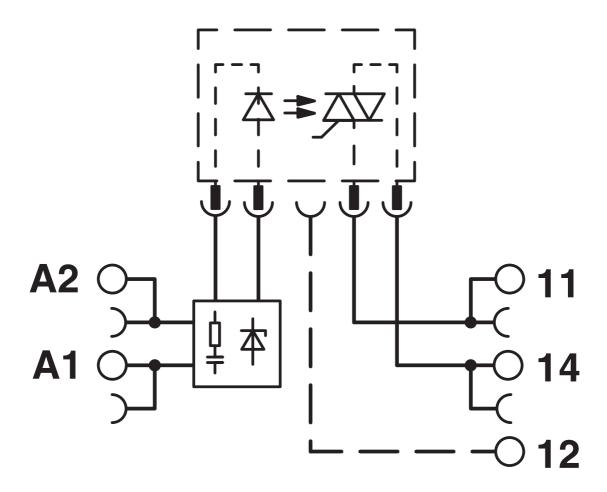
Occurrence of interference signals Scenario 1: controller - AC output card



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Circuit diagram

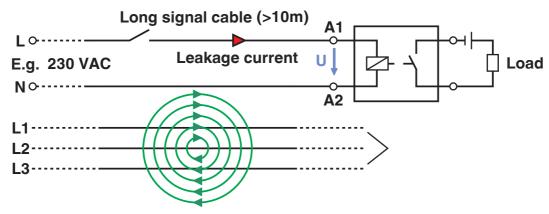




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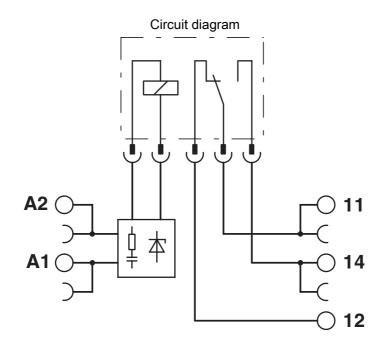


Application drawing



Parallel signal cables or load cables

Occurrence of interference signals Scenario 2: long signal cables

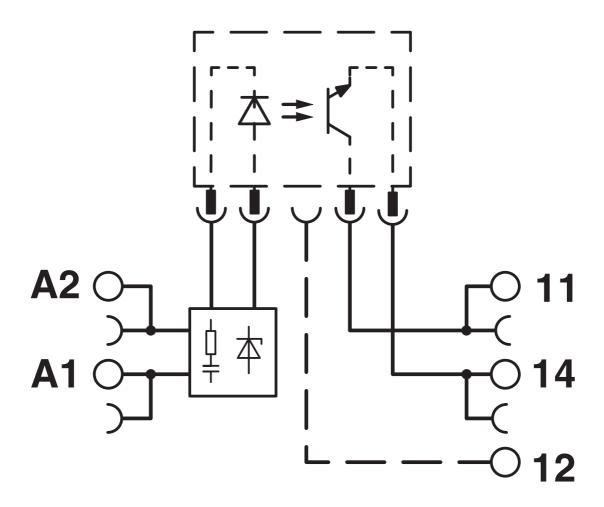




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Circuit diagram





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2980319



cUL Recognized

Approval ID: FILE E 238705



UL Recognized

Approval ID: FILE E 238705



EAC

Approval ID: RU D-DE.B*00573/18



DNV GL

Approval ID: TAE0000196

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

| 27371603 |
|----------|
| 27371603 |
| 27371603 |
| |
| EC001456 |
| |
| |

39122300



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|---|
| Exemption | 7(a), 7(c)-l |
| China RoHS | FFUD FO |
| 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. |

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