

QUINT-DIODE/48DC/40 - Redundancy module, with protective coating



2866585

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QUINT-DIODE/48DC/40 redundancy module



Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2866585 |
| Packing unit | 1 pc |
| Sales key | NULL |
| Product key | CMRP44 |
| GTIN | 4046356494458 |
| Weight per piece (including packing) | 679 g |
| Weight per piece (excluding packing) | 679 g |
| Customs tariff number | 85049090 |
| Country of origin | CN |

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Technical data

Input data

DC operation

| | |
|---------------------------------|--|
| Input voltage | 48 V DC (U_N) |
| | < 60 V DC (U_{max}) |
| Input voltage range | 10 V DC ... 60 V DC |
| Input voltage range DC | 10 V DC ... 60 V DC |
| Voltage type of supply voltage | DC |
| Reverse polarity protection | yes, < 120 V |
| Nominal input current (I_N) | 2x 20 A |
| | 1x 40 A |
| Maximum current I_{max} | 2x 19 A (6 mm ² at 40°C) |
| | 1x 39 A (6 mm ² at 40°C) |
| | 2x 16 A (6 mm ² at 60°C) |
| | 1x 32 A (6 mm ² at 60°C) |
| | 2x 27 A (10 mm ² at 40°C) |
| | 1x 54 A (10 mm ² at 40°C) |
| | 2x 21 A (10 mm ² at 60°C) |
| | 1x 43 A (10 mm ² at 60°C) |
| | 2x 30 A (16 mm ² at 40 °C) |
| | 1x 60 A (16 mm ² at 40 °C) |
| | 2x 24 A (16 mm ² at 60°C) |
| | 1x 48 A (16 mm ² at 60°C) |
| | Nominal input current (I_N) |
| 1x 40 A | |
| Maximum current I_{max} | 2x 17 A (6 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 1x 35 A (6 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 2x 14 A (6 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 1x 28 A (6 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 2x 24 A (10 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 1x 49 A (10 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 2x 19 A (10 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 1x 39 A (10 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 2x 27 A (16 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |

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| | |
|----------------------------|--|
| | 1x 54 A (16 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 2x 22 A (16 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| | 1x 44 A (16 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4) |
| Transient surge protection | Transil diode |
| Voltage drop, input/output | approx. 0.7 V |

Output data

| | |
|--|---|
| Efficiency | > 97 % |
| Nominal output voltage | 47.3 V DC (Input/output voltage drop of 48 V ... 0.7 V) |
| Nominal output current (I _N) | 40 A |
| Power loss nominal load max. | 28 W |
| Connection in series | no |

Connection data

Input

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section, rigid min. | 0.5 mm ² |
| Conductor cross-section, rigid max. | 16 mm ² |
| Conductor cross-section flexible min. | 0.5 mm ² |
| Conductor cross-section flexible max. | 10 mm ² |
| Conductor cross-section AWG min. | 20 |
| Conductor cross-section AWG max. | 6 |
| Stripping length | 10 mm |
| Screw thread | M4 |
| Tightening torque, min | 1.2 Nm |
| Tightening torque max | 1.5 Nm |

Output

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section, rigid min. | 0.5 mm ² |
| Conductor cross-section, rigid max. | 16 mm ² |
| Conductor cross-section flexible min. | 0.5 mm ² |
| Conductor cross-section flexible max. | 10 mm ² |
| Conductor cross-section AWG min. | 20 |
| Conductor cross-section AWG max. | 6 |
| Stripping length | 10 mm |
| Screw thread | M4 |
| Tightening torque, min | 1.2 Nm |
| Tightening torque max | 1.5 Nm |

Electrical properties

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|--|----------------------------|
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| Standard - Electrical safety | EN 60950-1/VDE 0805 (SELV) |

Approvals

| | |
|--------------|---|
| UL approvals | UL/C-UL listed UL 508 |
| | UL/C-UL Recognized UL 60950-1 |
| | UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D |

Conformity/Approvals

| | |
|------|----------------------|
| ATEX | ⊕ II 3 G Ex nA II T4 |
|------|----------------------|

EMC data

| | |
|-------------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| EMC requirements for noise emission | EN 61000-6-3 |
| | EN 61000-6-4 |
| EMC requirements for noise immunity | EN 61000-6-1 |
| | EN 61000-6-2 |

Noise emission

| | |
|-----------------------|----------|
| Standards/regulations | EN 55011 |
|-----------------------|----------|

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151504 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-25 |
| | 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) |
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com