

Diode module - QUINT-DIODE/12-24DC/2X20/1X40 - 2320157

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DIN rail diode module 12-24 V DC/2x20 A or 1x40 A. Uniform redundancy up to the consumer.

Product Features

- Flexible
- Rugged design
- Consistent redundancy up to the load



Key commercial data

| | |
|------------------|---------------|
| package_quantity | 1 |
| GTIN | 4046356524766 |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 50 mm |
| Height | 130 mm |
| Depth | 125 mm |

Ambient conditions

| | |
|--|-------------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C (> 60 °C derating) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing) |

Input data

| | |
|-----------------------------|----------------------------|
| Nominal input current I_N | 2x 20 A (-25 °C ... 60 °C) |
| Nominal input current I_N | 1x 40 A (-25 °C ... 60 °C) |
| Maximum current I_{max} | 2x 30 A (-25 °C ... 40 °C) |
| Maximum current I_{max} | 1x 60 A (-25 °C ... 40 °C) |
| Nominal input current I_N | 2x 20 A (-25 °C ... 60 °C) |
| Nominal input current I_N | 1x 40 A (-25 °C ... 60 °C) |
| Maximum current I_{max} | 2x 30 A (-25 °C ... 40 °C) |
| Maximum current I_{max} | 1x 60 A (-25 °C ... 40 °C) |

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Technical data

Output data

| | |
|-------------------------------------|--------------------------------|
| Output current | 40 A (Increasing power) |
| Output current | 20 A (Redundancy) |
| Derating | 60 °C ... 70 °C (2.5%/K) |
| Power loss nominal load max. | 10 W (I _{OUT} = 20 A) |

General

| | |
|---|--|
| Net weight | 0.75 kg |
| Efficiency | > 97 % |
| Efficiency | > 97 % |
| Protection class | III |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Low Voltage Directive | Conformance with Low Voltage Directive 2006/95/EC |
| ATEX | # II 3G Ex nA IIC T4 Gc |
| ATEX | KEMA 10 ATEX 0165X |
| IECEX | Ex nA IIC T4 Gc |
| IECEX | IECEX KEM 10.0091 |
| Standard - Electrical safety | EN 60950-1/VDE 0805 (SELV) |
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| Standard – Safety extra-low voltage | IEC 60950-1 (SELV) and EN 60204 (PELV) |
| Standard - Safe isolation | DIN VDE 0100-410 |
| Standard - Safe isolation | DIN VDE 0106-1010 |
| Standard – Protection against electric shock | DIN 57100-410 |
| Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment | DIN VDE 0106-101 |
| UL approvals | UL/C-UL listed UL 508 |
| UL approvals | UL/C-UL Recognized UL 60950 |
| UL approvals | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |

Connection data, input

| | |
|---|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 4 mm ² |
| Conductor cross section AWG/kcmil min. | 12 |
| Conductor cross section AWG/kcmil max | 10 |
| Stripping length | 7 mm |
| Screw thread | M3 |

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Technical data

Connection data, output

| | |
|--|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 16 mm ² |
| Conductor cross section stranded min. | 0.5 mm ² |
| Conductor cross section stranded max. | 16 mm ² |
| Conductor cross section AWG/kcmil min. | 10 |
| Conductor cross section AWG/kcmil max | 6 |
| Stripping length | 10 mm |

classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250311 |
| eCl@ss 4.1 | 27250311 |
| eCl@ss 5.0 | 27242213 |
| eCl@ss 5.1 | 27242213 |
| eCl@ss 6.0 | 27049005 |
| eCl@ss 7.0 | 27049005 |
| eCl@ss 8.0 | 27049005 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC000599 |
| ETIM 5.0 | EC002540 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211502 |
| UNSPSC 7.0901 | 39121004 |
| UNSPSC 11 | 39121004 |
| UNSPSC 12.01 | 39121004 |
| UNSPSC 13.2 | 39121004 |

approvals

IECEX / ATEX / UL Listed / cUL Listed / cULus Listed / UL Recognized / UL Listed / cUL Recognized / cUL Listed / RINA / GL / BV / NK / LR / DNV / ABS / cULus Recognized / cULus Listed /

Approval details

| |
|-------|
| IECEX |
|-------|

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

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approvals

UL Listed

cUL Listed

cULus Listed

UL Recognized

cUL Recognized

RINA

GL

BV

| NK | |
|----------------------------|-------|
| Nominal voltage UN | 500 V |
| Nominal current IN | 63 A |
| mm ² /AWG/kcmil | 10 |

LR

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approvals

| | |
|----------------------------|-------|
| Nominal voltage UN | 500 V |
| Nominal current IN | 41 A |
| mm ² /AWG/kcmil | 6 |

DNV

ABS

cULus Recognized

accessories

Assembly adapter

UWA 182/52 - 2938235



QUINT-PS-ADAPTERS7/1 - 2938196



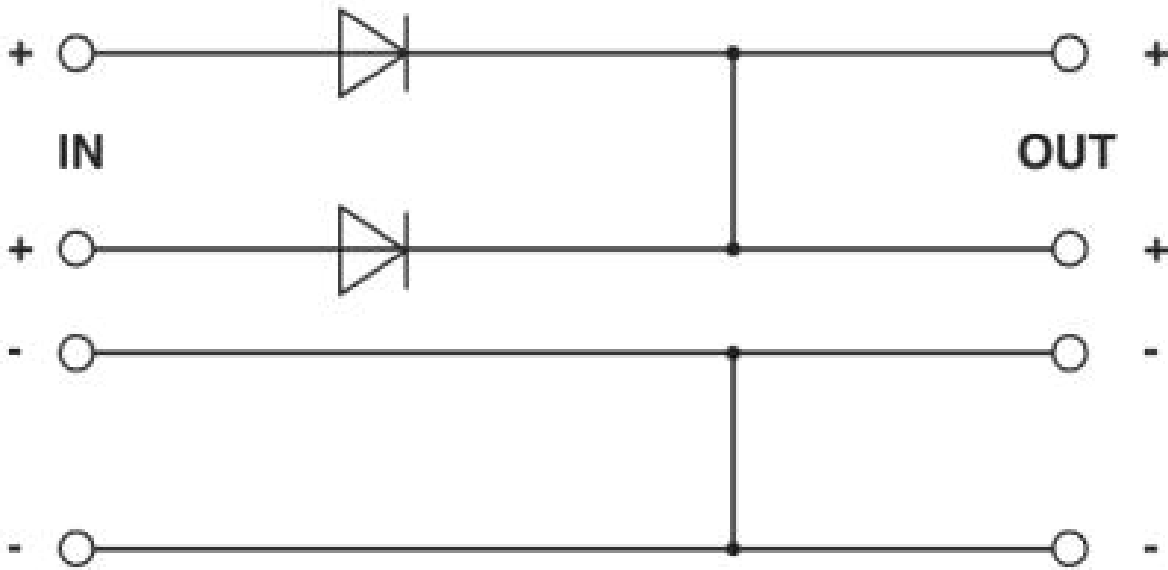
UTA 107/30 - 2320089



Drawings

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Block diagram



Block diagram

