

QUINT4-DIODE/12-24DC/2X20/1X40 - Redundancy module



2907719

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

Product description

A safe redundant system is the result of the parallel connection of two power supply units which are decoupled from one another. To further increase system availability, QUINT DIODE provides the solution: decoupling with diode.

Your advantages

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

Commercial data

Item number	2907719
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMR
Product key	CMRI43
GTIN	4055626231211
Weight per piece (including packing)	883 g
Weight per piece (excluding packing)	775.33 g
Customs tariff number	85049090
Country of origin	CN

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Technical data

Input data

DC operation

Nominal input voltage range	12 V DC ... 24 V DC
Input voltage range	10 V DC ... 30 V DC
Voltage type of supply voltage	DC
Reverse polarity protection	< yes60 V
Nominal input current (I_N)	2x 20 A (-40 °C ... 60 °C) 1x 40 A (-40 °C ... 60 °C)
Maximum current I_{max}	2x 30 A (-40 °C ... 40 °C) 1x 60 A (-40 °C ... 40 °C)
Input current I_{Static}	2x 25 A (40 °C)
Input current $I_{Dynamic}$	2x 30 A (5 s)
Input current I_{SFB}	2x 120 A (15 ms)
Nominal input current (I_N)	2x 20 A (-25 °C ... 60 °C) 1x 40 A (-25 °C ... 60 °C)
Maximum current I_{max}	2x 30 A (-25 °C ... 40 °C) 1x 60 A (-25 °C ... 40 °C)
Transient surge protection	Varistor
Voltage drop, input/output	0.5 V

Output data

Efficiency	> 97 %
Nominal output voltage	$U_{in} - 0,5 V$
Nominal output current (I_N)	40 A (Increasing power) 20 A (Redundancy)
Static Boost ($I_{Stat.Boost}$)	45 A
Dynamic Boost ($I_{Dyn.Boost}$)	60 A (5 s)
Selective Fuse Breaking (I_{SFB})	120 A (15 ms)
Derating	60 °C ... 70 °C (2.5 %/K)
Power loss nominal load max.	10 W ($I_{OUT} = 20 A$)
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.	16 mm ²
Conductor cross-section AWG min.	20

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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 mm²
Conductor cross-section, rigid max.	16 mm²
Conductor cross-section flexible min.	0.5 mm²
Conductor cross-section flexible max.	16 mm²
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

Insulation voltage input, output / housing	1000 V
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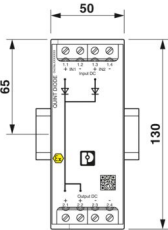
Product properties

Product type	Redundancy module
Product family	QUINT DIODE
MTBF (IEC 61709, SN 29500)	40000000 h (40 °C)
LED	no

Insulation characteristics

Protection class	III
Degree of pollution	2

Dimensions

Dimensional drawing	
Width	50 mm
Height	130 mm
Depth	125 mm