

Redundancy module - QUINT-ORING/24DC/2X40/1X80 - 2902879

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Active QUINT redundancy module for DIN rail mounting with ACB technology (Active Current Balancing) and monitoring functions, input: 24 V DC, output: 24 V DC/2 x 40 A or 1 x 80 A, including mounted UTA 107 universal DIN rail adapter

Why buy this product

- Service life of the redundant solution is doubled, thanks to uniform distribution of the load
- Save energy
- Permanent monitoring of redundancy
- Consistent redundancy up to the load



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 698276

Technical data

Dimensions

Width	66 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	69 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005
Maximum altitude	2000 m

Redundancy module - QUINT-ORING/24DC/2X40/1X80 - 2902879

Technical data

Input data

Nominal input voltage range	24 V DC
Input voltage range	18 V DC ... 28 V DC (SELV)
Type of protection	Protection against static surge voltages > 30 V
Nominal input current	2x 40 A (-25 °C ... 60 °C)
	1x 80 A (-25 °C ... 60 °C)
Maximum input current	2x 45 A (-25°C ... 40°C)
	1x 90 A (-25°C ... 40°C)
	215 A (12 ms, SFB Technology)

Output data

Nominal output voltage	0.2 V (< DC input)
	24 V DC
Nennausgangsstrom (I _N)	80 A (Increasing power)
	40 A (Redundancy)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in series	No
Power loss nominal load max.	16 W (I _{OUT} = 80 A)

General

Net weight	0.9 kg
Efficiency	> 98 %
Protection class	III
	> 720000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid 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.	6
Stripping length	10 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	35 mm ²

Redundancy module - QUINT-ORING/24DC/2X40/1X80 - 2902879

Technical data

Connection data, output

Conductor cross section AWG min.	2
Stripping length	18 mm
Screw thread	M4

Connection data for signaling

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	10
Stripping length	10 mm
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Shock	30g in each direction, according to IEC 60068-2-27
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
Standard – Electrical equipment of machines	EN 60204-1
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 60204-1 (PELV)
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
Low Voltage Directive	Conformance with LV directive 2006/95/EC

Classifications

eCl@ss

eCl@ss 4.0	27250311
eCl@ss 4.1	27250311
eCl@ss 5.0	27242213
eCl@ss 5.1	27242213

Redundancy module - QUINT-ORING/24DC/2X40/1X80 - 2902879

Classifications

eCl@ss

eCl@ss 6.0	27049005
eCl@ss 7.0	27049005
eCl@ss 8.0	27049002
eCl@ss 9.0	27040701

ETIM

ETIM 3.0	EC000599
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

Approvals

Approvals

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

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

Redundancy module - QUINT-ORING/24DC/2X40/1X80 - 2902879

Approvals

UL Listed 

cUL Listed 

EAC

RINA

GL

EAC

BV

DNV

NK

mm ² /AWG/kcmil	10
Nominal current I _N	63 A
Nominal voltage U _N	500 V

LR

mm ² /AWG/kcmil	6
Nominal current I _N	41 A
Nominal voltage U _N	500 V

ABS

cULus Recognized 

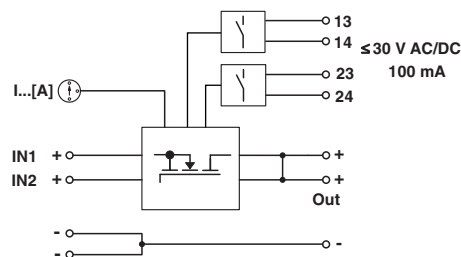
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Approvals

cULus Listed 

Drawings

Block diagram



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