

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Vă rugăm să țineți cont de faptul că datele afișate în acest document PDF au fost generate din catalogul nostru online. Datele complete sunt disponibile în documentația pentru utilizator. În cazul descărcărilor, se aplică Termenii și condițiile generale de utilizare ale companiei noastre.

Redundancy module, 12 V - 24 V DC, 2 x 10 A, 1 x 20 A



Descriere produs

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, TRIO DIODE provides the solution: decoupling with diode.

Avantajele dumneavoastră

- Quick and easy installation with Push-in connection technology
- Save energy
- Redundant wiring up to the load
- Permanent monitoring of redundancy
- Consistent redundancy up to the load

Date comerciale

Număr articol	2907380
Unitate de ambalare	1 Bucată
Cantitate minimă pentru comandă	1 Bucată
Cod produs	CMRO43
Pagina de catalog	Pagina 308 (C-4-2019)
GTIN	4055626198262
Greutate pe bucată (inclusiv ambalajul)	388 g
Greutate pe bucată (fără ambalaj)	500 g
Cod tarifar vamal	85363030
Țara de origine	CN

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Date tehnice

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 10 A (-25 °C ... 60 °C)
	1x 20 A (-25 °C ... 60 °C)
Maximum current I_{max}	2x 15 A (-25 °C ... 40 °C)
	1x 30 A (-25 °C ... 40 °C)
Nominal input current (I_N)	2x 10 A (-25 °C ... 60 °C)
	1x 20 A (-25 °C ... 60 °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)	20 A
	10 A
Derating	60 °C ... 70 °C (2.5 %/K)
Power loss nominal load max.	5 W ($I_{OUT} = 10 A$)
Connection in series	no
Derating	60 °C ... 70 °C (2.5 %/K)

Connection data

Input

Connection method	Push-in connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	12
Stripping length	10 mm

Output

Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	10 mm ²
Conductor cross section flexible min.	0.2 mm ²

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Conductor cross section flexible max.	6 mm ²
Conductor cross section AWG min.	12
Conductor cross section AWG max.	8
Stripping length	15 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Electrical properties

Insulation voltage input, output / housing	500 V
--	-------

Product properties

Product type	Redundancy module
Product family	TRIO DIODE
MTBF (IEC 61709, SN 29500)	66425178 h (25 °C)
	56586762 h (40 °C)
	41744164 h (60 °C)
LED	No

Data management status

Article revision	04
------------------	----

Insulation characteristics

Protection class	III
Degree of pollution	2

Dimensions

Width	35 mm
Height	130 mm
Depth	115 mm

Installation dimensions

Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm

Mounting

Mounting type	DIN rail mounting
Assembly note	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715

Material specifications

Flammability rating according to UL 94 (housing / terminal blocks)	V0
Housing material	Metal
Type of housing	Steel sheet, zinc-plated
Side element version	Aluminum

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Environmental and real-life conditions

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
Climatic class	3K3 (in acc. with EN 60721)
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
	15 Hz ... 150 Hz, 2.3g, 90 min.

Standards and regulations

Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Electrical safety	IEC 62368-1 (SELV)
Standard – Safety extra-low voltage	IEC 62368-1 (SELV) und EN 60204-1 (PELV)

Approvals

UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1

EMC data

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
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Electrostatic discharge

Standards/regulations	EN 61000-4-2
-----------------------	--------------

Electrostatic discharge

Contact discharge	4 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion B

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
-----------------------	--------------

Electromagnetic HF field

Frequency range	80 MHz ... 1 GHz
Test field strength	10 V/m
Frequency range	1 GHz ... 2 GHz

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Test field strength	10 V/m
Frequency range	2 GHz ... 3 GHz
Test field strength	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4
-----------------------	--------------

Fast transients (burst)

Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion B

Surge voltage load (surge)

Standards/regulations	EN 61000-4-5
-----------------------	--------------

Surge voltage load (surge)

Input	0.5 kV (Test Level 2 - symmetrical)
	0.5 kV (Test Level 3 - asymmetrical)
Output	0.5 kV (Test Level 1 - symmetrical)
	0.5 kV (Test Level 1 - asymmetrical)
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6
-----------------------	--------------

Conducted interference

I/O/S	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)

Voltage dips

Standards/regulations	EN 61000-4-11
-----------------------	---------------

Emitted interference

Standards/regulations	EN 61000-6-3
Radio interference voltage in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential

Criteria

Criterion A	Normal operating behavior within the specified limits.
-------------	--

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



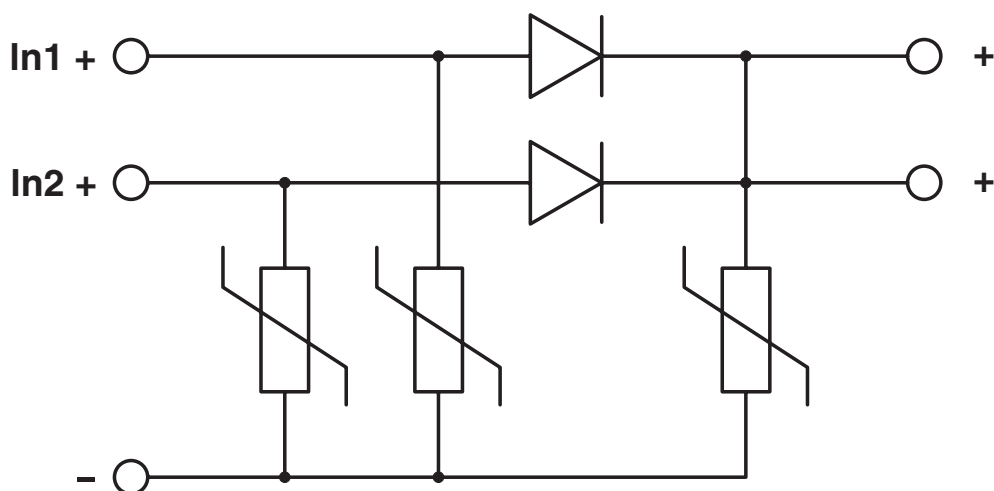
2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Desene

Block diagram

2x10 A



TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Aprobări

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ro/produse/2907380>



cUL Recognized
ID de înregistrare: E211944



UL Recognized
ID de înregistrare: E211944



EAC
ID de înregistrare: RU S-DE.BL08.W.00764



UL Listed
ID de înregistrare: E123528



cUL Listed
ID de înregistrare: E123528



DNV
ID de înregistrare: TAA000011F

cULus Recognized

cULus Listed

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Clasificări

ECLASS

ECLASS-11.0	27371010
ECLASS-12.0	27371010
ECLASS-13.0	27371010

ETIM

ETIM 9.0	EC000683
----------	----------

UNSPSC

UNSPSC 21.0	32151500
-------------	----------

TRIO2-DIODE/12-24DC/2X10/1X20 - Redundancy module



2907380

<https://www.phoenixcontact.com/ro/produse/2907380>

Environmental product compliance

EU RoHS

Îndeplinește cerințele conform directivei RoHS	Da, Nicio reglementare privind excepțiile
--	---

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	Nu există substanțe periculoase peste valorile limită

EU REACH SVHC

Trimitere la substanța candidată REACH (nr. CAS)	Nicio substanță cu un procentaj masic mai mare de 0,1 %
--	---

Phoenix Contact 2024 © - Toate drepturile rezervate
<https://www.phoenixcontact.com>

PHOENIX CONTACT România
Splaiul Unirii 165 Timpuri Noi Square TNO1, Etaj 1
București 030133
+40 21 350 88 12 - 3
sales.ro@phoenixcontact.com