

**REDUNDANT MODULE 20 A DIMENSION
SERIES, 12-28VDC**

12-28 V DC, 2x10 A

YR20.242
REDUNDANCY MODULE 12-28V 20A

- For N+1 and 1+1 Redundant Systems
- MOSFET transistors
- Minimum power loss

**PRODUCT DESCRIPTION**

The YR20.242 is a redundancy module for building redundant power supply systems. It is equipped with two input channels and one output. The two inputs are decoupled by MOSFET technology.

In addition to the YR20.242, the YR20.246 is available which is featured with an automated load sharing between the connected power supplies and functions which monitor defects in the redundancy circuit or too high output currents, which could prevent redundancy, if one power supply fails.

The YR20.242 utilizes MOSFETs instead of diodes for the decoupling of the two input channels. This reduces the heat generation and the voltage drop between input and output. The redundancy module does not require an additional auxiliary voltage.

Due to the low power losses, the unit is very slender and only requires 32mm width on the DIN-rail. Large connection terminals allow for a safe and fast installation. The large international approval package makes this unit suitable for nearly every application.

TECHNICAL DATA**INPUT DATA**

Input voltage dc max	36,4 V DC
Input voltage dc	12-28 V
Input current at continuous overload or short circuit max	2x24 A
Input current per channel max	20 A
Input voltage dc min	8,4 V DC

OUTPUT DATA

Output current max	26 A
Output voltage	24 V DC

Output current	20 A
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EFFICIENCY / LIFETIME / MTBF

Life span	355000 h @ 2x 20 A, 24 V DC, 40 °C
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MTBF (IEC 61709)	7895000 h @ 2x 20 A, 24 V DC, 40 °C
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DIMENSIONS

Weight	0,25 kg
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Depth	127 mm
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Width	32 mm
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Height	124 mm
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OTHER

IP class	IP20
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Voltage drop over semiconductor	110 mV
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Temperature min without derating	-40 °C
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Input / Output Separation	Mosfet
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Series	Dimension Y
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Approvals	ATEX, CB, CE, CSA, CSA US, UL
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Temperature max without derating	70 °C
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Material protection	Aluminium
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Type Power Supply	Redundancy modules
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