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REDUNDANT MODULE 40 A DIMENSION SERIES 24-56 VDC

24-56 V DC, 2x20 A

YR40.482
Redundancy Module 2 x 24-56V dc 20A I/P 24-56V dc 40A O/P



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

PRODUCT DESCRIPTION

The YR40.482 is a redundancy module, which can be used to build 1+1 and N+1 redundant systems. It is equipped with two input channels, which can be connected to power supplies with up to 20A output current and one output, which can carry nominal currents up to 40A.

The novelty of this redundancy module is the utilization of 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 46mm 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

Input voltage dc	24-56 V
Input voltage dc min	20.4 V DC
Input voltage dc max	64.4 V DC
Input current per channel max	20 A
Input current at continuous overload or short circuit max	2x32,5 A
Type Power Supply	Redundancy modules

OUTPUT

Output voltage	48 V DC
Output current	40 A

Output current max	45 A
Temperature min without derating	-40 °C
Temperature max without derating	70 °C

EFFICIENCY/LIFETIME/MTBF

Life span	222000 h @ 2x 20 A, 48 V DC, 40 °C
MTBF (IEC 61709)	4098000 h @ 2x 20 A, 48 V DC, 40 °C

DIMENSIONS

Width	46 mm
Height	124 mm
Depth	127 mm
Weight	0.36 kg

GENERAL

Series	Dimension Y
Approvals	ABS, ATEX, CB, CE, CSA, CSA US, GL, IECEx, UL
Material protection	Aluminium
IP class	IP20
Input / Output Separation	Mosfet
Voltage drop over semiconductor	120 mV







