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REDUNDANT MODULE 40 A DIMENSION SERIES, 12-28 VDC

YR40.245
Redundancy Module 12-28V dc 40A I/P 12-28V dc 40A O/P



- N+1 ja 1+1 varmennukseen
- MOSFET transistors
- Minimum power loss
- Hot-Swap connectors

PRODUCT DESCRIPTION

The YR40.245 is a redundancy module, which can be used to build redundant systems. The module has one input and one output and can carry nominal currents up to 40A. The output is equipped with a plug-connector, which allows replacing the power supply or the redundancy module while the system is running (hotswapping).

The novelty of this redundancy module is the utilization of mosfets instead of diodes for the decoupling of the output. 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	12-28 V
Input voltage dc min	8.4 V DC
Input voltage dc max	36.4 V DC
Input current per channel max	40 A
Input current at continuous overload or short circuit max	65 A
Type Power Supply	Redundancy modules

OUTPUT

Output voltage	24 V DC
Output current	40 A

Output current max	65 A
Temperature min without derating	-40 °C
Temperature max without derating	70 °C

EFFICIENCY/LIFETIME/MTBF

Life span	134000 h @ 1x 40 A, 24 V DC, 40 °C
MTBF (IEC 61709)	6357000 h @ 1x 40 A, 24 V DC, 40 °C

DIMENSIONS

Width	46 mm
Height	124 mm
Depth	127 mm
Weight	0.34 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	150 mV







