

## 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 DATA

|                                                           |           |
|-----------------------------------------------------------|-----------|
| 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      |

### OUTPUT DATA

|                    |         |
|--------------------|---------|
| Output voltage     | 24 V DC |
| Output current     | 40 A    |
| Output current max | 65 A    |

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 |

OTHER

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| Input / Output Separation        | Mosfet                                        |
| Approvals                        | ABS, ATEX, CB, CE, CSA, CSA US, GL, IECEx, UL |
| IP class                         | IP20                                          |
| Material protection              | Aluminium                                     |
| Series                           | Dimension Y                                   |
| Voltage drop over semiconductor  | 150 mV                                        |
| Temperature min without derating | -40 °C                                        |
| Temperature max without derating | 70 °C                                         |
| Type Power Supply                | Redundancy modules                            |

