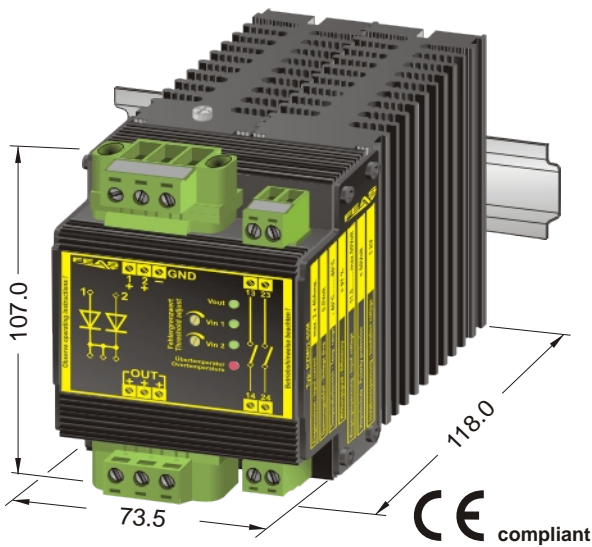
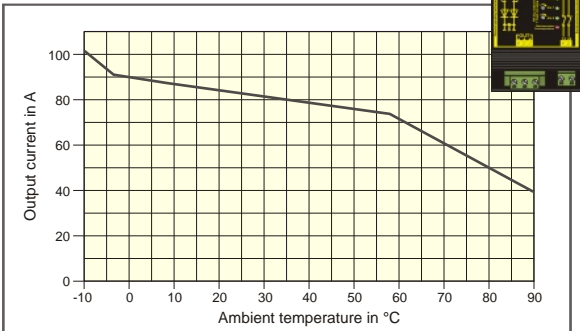


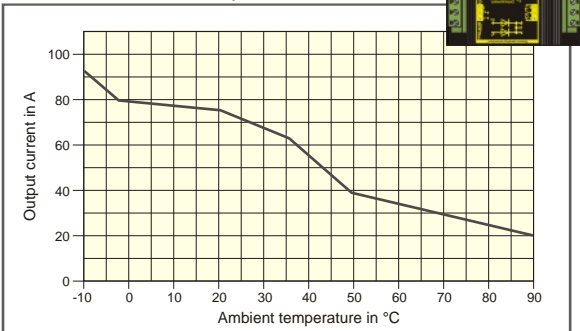
Redundancy module type RZM02-80M



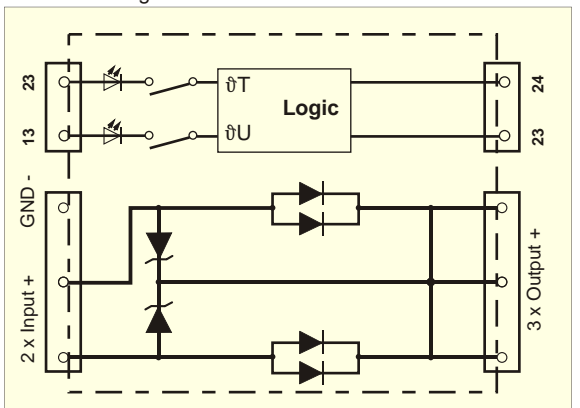
Thermal characteristic
at vertical installation position



Thermal characteristic
at horizontal installation position



Schematic diagram



Technical data

General data

| | |
|--|---|
| Product denomination | Redundancy module |
| Type | RZM02-80M |
| FEAS order number | 52004 |
| Product function | Decoupling of two power supplies |
| Main current circuit | Input 3-pole, output 3-pole |
| Installation altitude (over sea level) | unlimited |
| Operation temperature range | -40°C +80°C |
| Storage temperature range | -55°C +125°C |
| State indicator | LED green/red |
| Overtemperature indicator | LED red |
| Relay output | 2 x NOC (1.0A, 250V _{AC} - 1.0A, 24V _{DC}) |

Operating data

| | |
|--------------|---|
| Duty cycle | 100% (continuous operation) |
| MTBF at 25°C | > 380.000h |
| Cooling | Selfcooling (natural convection), 15mm clearance recommended |

Main current circuit

| | |
|-------------------------------------|---|
| Voltage-range of load circuit | 11.5V _{DC} 50V _{DC} |
| Permanent load current (Input) | 2 x 40A at T _U = 25°C |
| Permanent load current (Output) | 1 x 80A at T _U = 25°C |
| Max. load current (Input) | 2 x 50A at T _U = 25°C, max. 5 minutes |
| Max. load current (Output) | 1 x 100A at T _U = 25°C, max. 5 minutes |
| Insulation voltage | 1kV |
| Derating from 40°C | 0.5A / °C |
| Real power loss | max. 46W |
| Potential difference (Input/Output) | approx. 0.5V |
| Efficiency | >97% |

Protective devices

| | |
|---------------------------------------|---|
| Reverse voltage protection with diode | Yes |
| Transient voltage suppressor | Suppressor diode, integrated into device |
| Thermal overload protection | Integrated into device |
| Fuse assignments load circuit | ----- |
| Insulating-grouting | PUR-resin, non-halogen and self-extinguishing |

Safety data

| | |
|--------------------------------|--|
| Rated surge voltage | Control / Load circuit 4kV (IEC 60664-1) |
| EMI suppression | Class A IEC/EN 60 947-4-3 |
| Pollution degree | 2 |
| Ambient humidity | 95% relative humidity, yearly average dewing allowed for use in tropical atmosphere |
| Degree of protection housing | IP 68 |
| Degree of protection terminals | IP 20 (BGV A3) |
| Resistance against shock | > 80g with 33Hz in x, y and z, acc. to IEC 60068-2-27 |
| Vibration proof | 3 - 15Hz, amplitude 3,0mm acc. to IEC 68-2-6 |

Applied design specifications

| | |
|-----------------------------------|---|
| EMC | IEC/EN 61000-6-4, IEC/EN 61000-6-1 |
| Electrostatic Discharge (ESD) | 8kV - air / 6kV terminal IEC/EN 61000-4-2 |
| HF - Irradiation | 20V/m IEC/EN 61000-3-4 |
| Surge transients | 4kV IEC/EN 61 000-4-5 |
| Pollution degree | IEC 60 664-1, EN 50178 |
| Resistance against shock | IEC 60068-2-27 |
| Degree of protection terminals | IEC/EN 60 529 |
| Resistance to climatic conditions | IEC/EN 60 068 |
| CSA / UL | CSA-C 22.2 / UL60950, UL508, UL1950 |

Mechanical data

| | |
|--|--|
| Terminal cross-section (control-circuit) | 0.2mm ² 4.0mm ² / AWG 24-12 (unfililar + flexible) |
| Terminal cross-section (load-circuit) | 0.2mm ² 4.0mm ² / AWG 24-12 (unfililar + flexible) |
| Tightening torque | 0.5Nm 0.6Nm |
| Mounting | On 35mm DIN-rail acc. to IEC/EN 60 715 |
| Dimensions (W x H x D) | 73.5mm x 107mm x 118mm |
| Weight | 1.28kg |

Notes

The output voltage of the redundancy module equals the output voltage of the connected power supplies. A parallel operation for increasing output power is only permissible if the total output current not exceed the maximum rated value of the module.

The maximum allowable current is dependent from the cross sections of the connected conductor cables and the environmental temperature. The surface temperature of the housing should not exceed the value of 95°C. In dependence of the ambient temperature and the mounting orientation, the current-carrying capacity will be reduced. (see adjacent diagram)



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