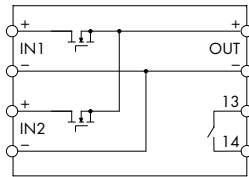


Redundancy Module; 24 VDC / 40 A 787 Series

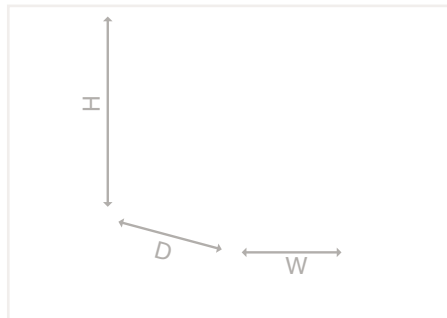


Similar to picture



Redundancy Module; Input voltage: 2 x 24 VDC; Input current: 2 x 20 A; Output voltage: 24 VDC; Output current: 40 A; communication-capable

	Item No.	Pack. Unit
	787-1685	1



Features:

- Redundancy module with low-loss Mosfet® decouples two power supplies
- For redundant and fail-safe power supply, incl. Mosfet® monitoring
- Continuous output current: 40 ADC, in any ratio of both inputs (e.g., 20 A / 20 A or 0 A / 40 A)
- Suitable for power supplies with PowerBoost and TopBoost
- Same profile as CLASSIC Power Supplies
- Connects to power supplies with electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

Input

Nominal input voltage $U_{i,nom}$	2 x 24 VDC
Input voltage range	2 x 10 ... 36 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (from one input path); ≤ 20 A (via both input paths)
PowerBoost input	60 ADC (4 s); 50 ADC (8 s)
TopBoost input	100 ADC (50 ms)

Output

Nominal output voltage $U_{o,nom}$	24 VDC
Output voltage range	10 ... 36 VDC (U_i – Voltage drop)
Voltage drop	≤ 100 mV (input/output)
Nominal output current $I_{o,nom}$	40 A
Nominal output power	960 W
Switching frequency	5 kHz
TopBoost	200 ADC (50 ms)
PowerBoost	120 ADC (4 s); 100 ADC (8 s)

Signaling and Communication

Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x DC OK signal contact (IN1 and IN2 > 10 VDC)
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Efficiency/Power Losses

Power loss P_i	≤ 1.5 W (no load); ≤ 9.5 W (nominal load)
Efficiency	≥ 99.5 %

Fuse Protection

Internal fuse	No
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Safety and Protection/Environmental Requirements

Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes/no
MTBF	> 500,000 h (per IEC 61709)
Surrounding air temperature (operation)	–40 ... +70 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	–1.5 %/K (> +65 °C)
Pollution degree	2

Connection Data

Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 ... 10 mm² / 0.5 ... 10 mm² / 20 ... 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 ... 2.5 mm² / 0.08 ... 2.5 mm² / 28 ... 12 AWG

Geometric Data/Mechanical Data/Material Data

Width x height x depth (mm)	42 x 127 x 139.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail (EN 60715)
Weight	370 g

Standards and Specifications

Approvals/standards/specifications	CE; EN 61204-3; EN 60950-1; UL 60950; UL 508; DNV GL
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