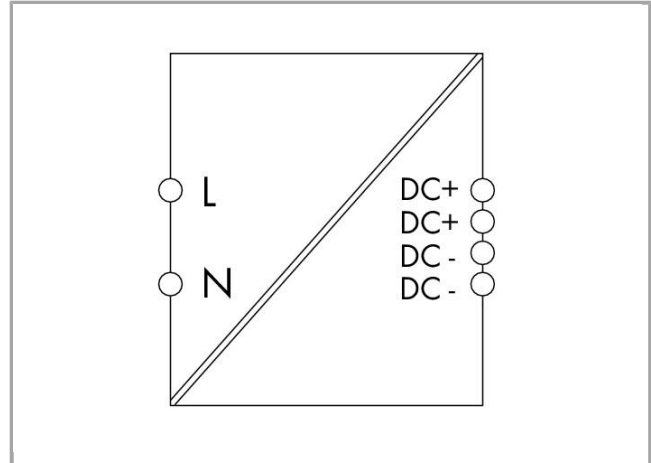


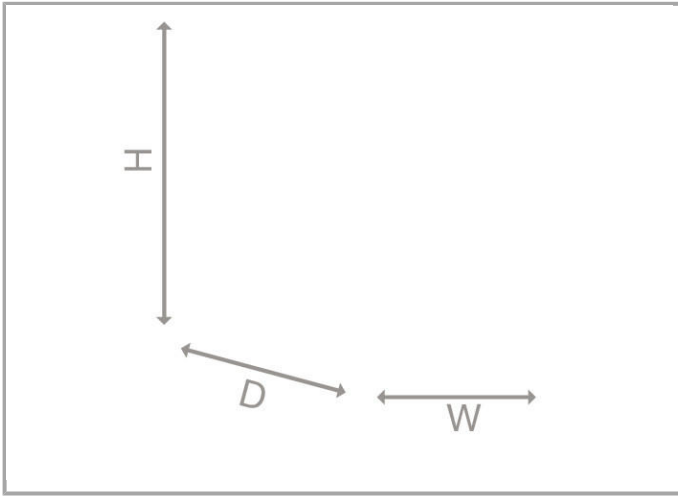
Data sheet | Item number: 787-1112

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage;
2.5 A output current; DC OK signal



787-1112





Item description

Features:

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Pluggable picoMAX[®] connection technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

Data

Technical Data

Input

| | |
|--|---|
| Phases | 1 |
| Nominal input voltage $U_{i\text{ nom}}$ | AC 100 ... 240 V |
| Input voltage range | AC 85 ... 264 V; DC 120 ... 373 V |
| Input voltage derating | $I_o \leq 2 \text{ A} (< 100 \text{ VAC}); I_o \leq 1.8 \text{ A} (< 90 \text{ VAC})$ |
| Nominal mains frequency range | 44 ... 66 Hz; 0 Hz |
| Input current I_i | $\leq 0.6 \text{ A} (230 \text{ VAC}); \leq 1.4 \text{ A} (110 \text{ VAC})$ |
| Discharge current | $\leq 1 \text{ mA}$ |
| Inrush current | $\leq 30 \text{ A} (\text{NTC})$ |
| Power factor correction (PFC) | Passive |
| Mains failure hold-up time | $\geq 80 \text{ ms} (230 \text{ VAC}); \geq 10 \text{ ms} (110 \text{ VAC})$ |

Output

| | |
|---|----------------|
| Nominal output voltage $U_{o\text{ nom}}$ | DC 24 V (SELV) |
|---|----------------|



| | |
|---|--|
| Output voltage range | DC 22.8 ... 26.4 V (adjustable) |
| Factory preset | DC 24 V |
| Nominal output current $I_{o\text{ nom}}$ | 2.5 A (24 VDC); 1.6 A (in any mounting position) |
| Nominal output power | 60 W |
| Adjustment accuracy | $\leq 2\%$ |
| Residual ripple | $\leq 100\text{ mV}$ (peak-to-peak) |
| Current limitation | $1.1 \times I_{o\text{ nom}}$ typ. |
| Overload behavior | Constant current |

Signaling and communication

| | |
|----------------------------|--|
| Signaling | 1 x LED operation status indicator (green) |
| Operation status indicator | LED green (U_o) |

Efficiency/Power losses:

| | |
|-------------------------------------|---|
| Power loss P_v | $\leq 2.2\text{ W}$ (230 VAC; no load); $\leq 8.5\text{ W}$ (230 VAC; nominal load) |
| Max. power loss $P_{v\text{ max.}}$ | 10.5 W (100 VAC / 24 VDC; 2.5 A) |
| Efficiency | 88 % |

Fuse protection:

| | |
|-----------------------------|--|
| Internal fuse | T 2 A / 250 VAC |
| External fuse (required) | an external DC fuse required for DC input voltage |
| External fuse (recommended) | Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C |

Safety and protection:

| | |
|-----------------------------------|--|
| Insulation voltage (PRI-SEC) | 4.242 kV DC |
| Protection class | II |
| Protection class | IP20 (per EN 60529) |
| Feedback voltage | $\leq \text{DC } 30\text{ V}$ |
| Overvoltage category | II |
| Transient protection, primary | Varistor |
| Overvoltage protection, secondary | $\leq 40\text{ VDC}$ (in case of an error) |
| Short circuit protection | Yes |
| No-load proof | Yes |
| Parallel operation | Yes |
| Series connection | Yes |
| MTBF | $> 500,000\text{ h}$ (per IEC 61709) |



Connection data

| | |
|-------------------------|---|
| Connection type (1) | Input/Output |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO terminal | picoMAX® 5.0, WAGO 2092 Series |
| Solid conductor | 0.2 ... 2.5 mm ² / 24 ... 12 AWG |
| Fine-stranded conductor | 0.2 ... 2.5 mm ² / 24 ... 12 AWG |
| Strip length | 9 ... 10 mm / 0.35 ... 0.39 inch |

Geometrical Data

| | |
|---------------------------------------|--------------------|
| Width | 72 mm / 2.835 inch |
| Height | 89 mm / 3.504 inch |
| Depth | 59 mm / 2.323 inch |
| Length from upper-edge of DIN-35 rail | 55 mm / 2.165 inch |

Mechanical data

| | |
|------------------|------------------------|
| Type of mounting | DIN-35 rail (EN 60715) |
|------------------|------------------------|

Material Data

| | |
|-----------------------------|-------|
| Flammability class per UL94 | V0 |
| Weight | 240 g |

Environmental Requirements

| | |
|--|--|
| Surrounding air (operating) temperature | -25 ... 70 °C (Device start at -40 °C type-tested) |
| Surrounding air (storage) temperature | -25 ... 80 °C |
| Surrounding air (operating) temperature for UL | -25 ... 55 °C |
| Relative humidity | 5 ... 96 % (no condensation permissible) |
| Derating | -3 %/K (> 45 °C) |
| Pollution degree | 2 |
| Climatic category | 3K3 (per EN 60721) |

Standards and specifications

| | |
|--------------------------|--|
| Conformity marking | 1 |
| Standards/specifications | EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL |

Commercial data


| | |
|-------------------|---------------|
| Country of origin | DE |
| GTIN | 4055143422000 |

Customs Tariff No.



85044082900

Approvals / Certificates

Ship Approvals



| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAA00000KT |

UL-Approvals





| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | UL Underwriters Laboratories Inc. | UL 508 | E255817 |
|  | UL Underwriters Laboratories Inc. | UL 60950-1 | E255815 |

Compatible products

tools

| | | |
|--|---|---------|
|  | Item no.: 210-720 Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm | 210-720 |
|  | Item no.: 210-769 SCREWDRIVER | 210-769 |

ferrule

| | | |
|--|--|---------|
|  | Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated | 216-201 |
|  | Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated | 216-202 |
|  | Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated | 216-203 |
|  | Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated | 216-204 |
| | Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated | 216-301 |



Item no.: 216-302
 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated

216-302

Strain relief plate



Item no.: 2092-1600
 Gripping plate

2092-1600



Item no.: 2092-1601
 Gripping plate

2092-1601

Downloads

Documentation

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Instruction Leaflet

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Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

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