

Data sheet

Art.No.: 81.000.6310.0

Switched-mode power supply WIPOS PB1 24-1

wipos switched-mode power supply, nominal voltage: 24 V DC / 1A, sustained short-circuit protection, input voltage range: 90-264 V AC / 120-375 V DC, single phase, DIN rail mounted device 2 mod.



| | |
|------------|---------------|
| Art.No. | 81.000.6310.0 |
| EAN | 4049088081446 |
| Order Unit | 1 |

Certificates / Approvals



Technical data

General

| | |
|--------------------------------------|---------------------------|
| Connection type | Screw connection |
| Number of phases | Single phase power supply |
| Modular version | Yes |
| Mounting type, other | No |
| Mounting type, wall mounting | No |
| Rail mounting possible | Yes |
| Housing material | Plastic |
| Operating temperature min. | -40 °C |
| Operating temperature max. | 71 °C |
| relative humidity min. | 20 % |
| relative humidity max. | 95 % |
| Storage temperature / transport min. | 85 °C |
| Storage temperature / transport max. | -40 °C |
| Degree of protection (IP) | IP20 |
| Pollution degree | 2 |
| Parallel-service possible | No |

Technical data

| | |
|----------------------------------|--|
| Function display | "DC OK" LED green (U(o) 19.2...21.6V) |
| function display "DC Low" | "DC LOW" LED rot (U(o) < 19,2...21,6V) |
| Short-circuit protective device | Current limiting (hiccup mode) |
| temperature coefficient | ±0,03%/K |
| ripple and noise | < 0.05 V |
| hold time 115V AC | > 20 ms |
| hold time 230V AC | > 100 ms |
| isolating voltage Output DC | 4242 V |
| cohesive resistance (In-/Output) | 100 MOhm |
| Derating | 61°C...71°C: 2,5 %/K |
| cooling | free convection |

| | |
|----------------------------------|---|
| MTBF | 832.000h |
| Connector cross section (input) | min. 0.2mm ² (AWG24)max.2.5mm ² (AWG12) |
| Connector cross section (output) | min. 0.2mm ² (AWG24)max.2.5mm ² (AWG12) |
| Wire strip length | 7 mm |
| Permissible torque max. | 0.6 Nm |
| Control "Adj" | trimming potentiometer for fine-tuning of U(out) |
| CE-Norm | EN61000-6-3, EN 55022 Class B,EN61000-3-2, EN61000-3-3, EN61000-6-2,EN55024, EN61000-4-2, Level 4,EN61000-4-3 Level 3, EN61000-4-4 Level 4,EN61000-4-5 L-N Level 3, L/N-FG Level 4,EN61000-4-6 Level 3, EN61000-4-8 Level 4,EN61000-4-11, ENV 50204 Level 2,EN61204-3 |
| Approval cULus | UL 508 Listed, UL60950-1 Recognized |
| Number of + | 2 |
| Number of - | 2 |
| Further terminals | L, N |

Output

| | |
|---------------------------|------|
| Type of output voltage | DC |
| Power output | 24 W |
| Output voltage stabilized | Yes |
| Output voltage | 24 V |
| Min. output voltage | 24 V |
| Max. output voltage | 28 V |
| Output current | 1 A |

Input

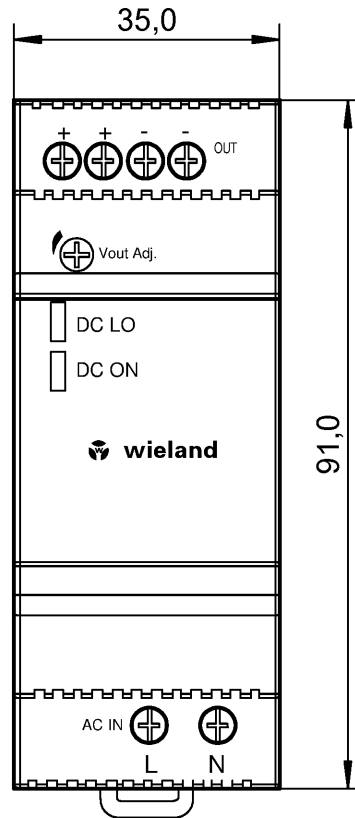
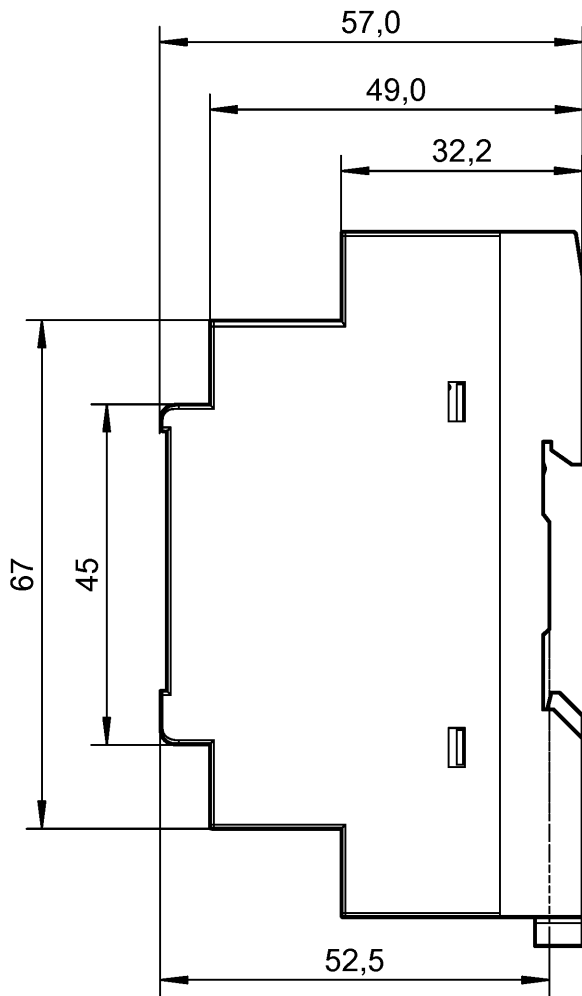
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|---------------------------------|---------------------------------------|
| Type of voltage (input voltage) | |
| Input voltage DC min. | 120 V |
| Input voltage DC max. | 375 V |
| Input voltage AC min. | 90 V |
| Input voltage AC max. | 264 V |
| Rated frequency min. | 47 Hz |
| Rated frequency max. | 63 Hz |
| Max. starting current | 50 A |
| Input fuse | T2A / 250V (intern) |
| input protection | Varistor (voltage-sensitive resistor) |

Dimensions

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|------------------------------|---------|
| Depth | 56.5 mm |
| Width | 35 mm |
| Height | 91 mm |
| Mounting Distance horizontal | 25 mm |
| Mounting Distance vertical | 25 mm |
| Weight | 130 g |

Classification

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|------------|----------|
| ECLASS 8.1 | 27049002 |
| ETIM 7.0 | EC002540 |
| ETIM 6.0 | EC002540 |
| ETIM 5.0 | EC002540 |
| ETIM 3.0 | EC001039 |



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| Teile-Nr. / Part-No. | Typ / Type |
|----------------------|----------------|
| 81.000.6310.0 | wipos PB1 24-1 |
| 81.000.6322.0 | wipos PB1 12-2 |
| 81.000.6331.0 | wipos PB1 5-3 |

Weitere Angaben siehe KATALOG oder eKatalog.
 Additional data see CATALOG or eCatalog.

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ja/yes Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.
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|--|--|---|--|-----------------------------|------------------------------|---|------------------|---|--|
| Freitoleranz nach General tolerance | | CAD-Zeichnung, keine manuellen Änderungen CAD-Drawing, no manual modifications allowed | | | 1. Verwendung: First Use: | | Blatt: Sheet: | | |
| | | Werkstoff/ Material | | 2016 | Tag/ Date | Name | | Zeichnung Nr./ Drawing No. | |
| | | Maßstab/Scale | | gezeichnet drawn | 29.02. | Koetznr | | T 81.000.6310.0 01K Maße in mm/Dimensions are in mm | |
| Datei/ File: 031501__01K.DCD | | Ersatz für/ Replacement for: | | | | | | | |
| wieland www.wieland-electric.com | | Type | | Benennung/ Title | | Teilespezifikation / Component specification | | | |
| | | Index | | Datum/ Blatt Date/ Sheet | | Änderung/ Revision | | Schaltnetzteil / Switching Power Supply | |