

Data sheet

Commercial Art.No.: 81.000.6550.0

Switched-mode power supply WIPOS PS1 24-20

wipos PS1 switched-mode power supply, nominal voltage: 24 V DC / 20 A (setting range 21,6-27,6 V DC), sustained short-circuit protection, input voltage range: 85-264 V AC / 90-350V DC, single phase, W x H x D: 95 × 125 × 150 mm



| | |
|--------------------|---------------|
| Commercial Art.No. | 81.000.6550.0 |
| EAN | 4049088269677 |
| Order Unit | 1 |

Certificates / Approvals



Technical data

General

| | |
|--------------------------------------|---------------------------|
| Connection type | screw connection |
| Number of phases | Single phase power supply |
| Modular version | No |
| Mounting type, other | No |
| Mounting type, wall mounting | No |
| Rail mounting possible | yes |
| Housing material | Metal |
| Operating temperature min. | -40 °C |
| Operating temperature max. | 70 °C |
| relative humidity min. | 0 % |
| relative humidity max. | 95 % |
| Storage temperature / transport min. | 85 °C |
| Storage temperature / transport max. | -40 °C |
| Degree of protection (IP) | IP20 |
| Protection class | I |
| Pollution degree | 2 |
| series Connection possible | yes |
| Number of series switchable device | 2 |
| Parallel-service possible | yes |
| Number of parallel switchable device | 2 |

Technical data

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|------------------|---|
| Function display | "DC OK" (LED green) (U(o) 17.6...19.4V) |
|------------------|---|

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|----------------------------------|--|
| two-Phase use | 85...264V AC A fuse or a protective Switch must be connected to the N-terminal |
| temperature coefficient | ±0.05%/K |
| ripple and noise | < 0.23 V |
| hold time 115V AC | > 40 ms |
| hold time 230V AC | > 40 ms |
| isolating voltage Output DC | 4242 V |
| cohesive resistance (In-/Output) | 100 MOhm |
| Derating | A. 60 °C ... 70 °C: 2.5 %/K B. 30 °C ... 70 °C: 1.75 %/K |
| cooling | free convection |
| MTBF | 230.000h |
| Connector cross section (input) | 0.5-6mm ² /0.5-4mm ² (AWG20-10/AWG20-12) |
| Connector cross section (output) | 2,5-6mm ² /2,5-4mm ² (AWG14-10/AWG14-12) |
| Wire strip length | 8 mm |
| Permissible torque min. | 0.5 Nm |
| Permissible torque max. | 0.6 Nm |
| Control "Adj" | trimming potentiometer for fine-tuning of U(out) |
| Number of + | 2 |
| Number of - | 3 |
| Further terminals | L1, N, PE |

Output

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|---------------------------|--------|
| Type of output voltage | DC |
| Power output | 480 W |
| Output voltage stabilized | yes |
| Output voltage | 24 V |
| Min. output voltage | 21.6 V |
| Max. output voltage | 27.6 V |
| Output current | 20 A |

Input

| | |
|---------------------------------|-------|
| Type of voltage (input voltage) | |
| Input voltage DC min. | 90 V |
| Input voltage DC max. | 350 V |
| Input voltage AC min. | 85 V |
| Input voltage AC max. | 264 V |
| Rated frequency min. | 47 Hz |
| Rated frequency max. | 63 Hz |

Dimensions

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|------------------------------|--------|
| Depth | 150 mm |
| Width | 95 mm |
| Height | 125 mm |
| Mounting Distance horizontal | 20 mm |
| Mounting Distance vertical | 75 mm |
| Weight | 1500 g |

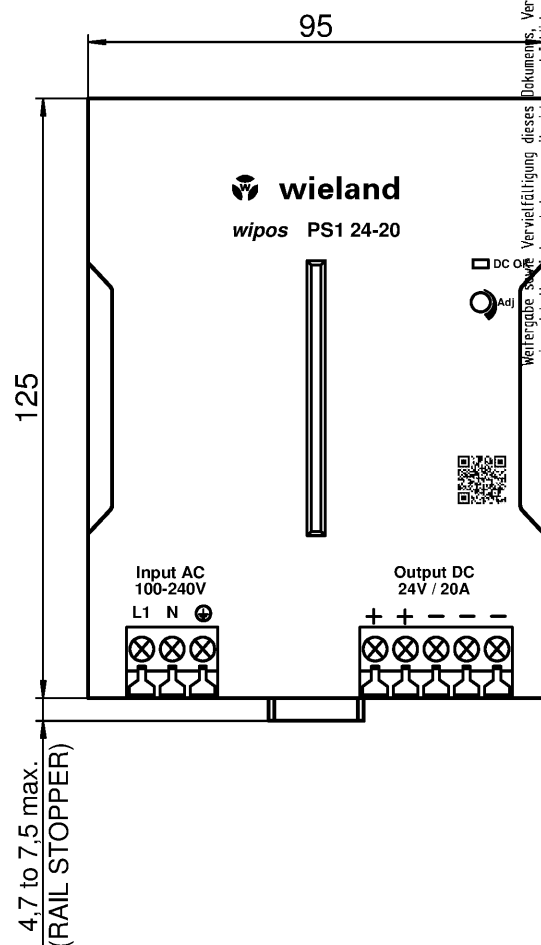
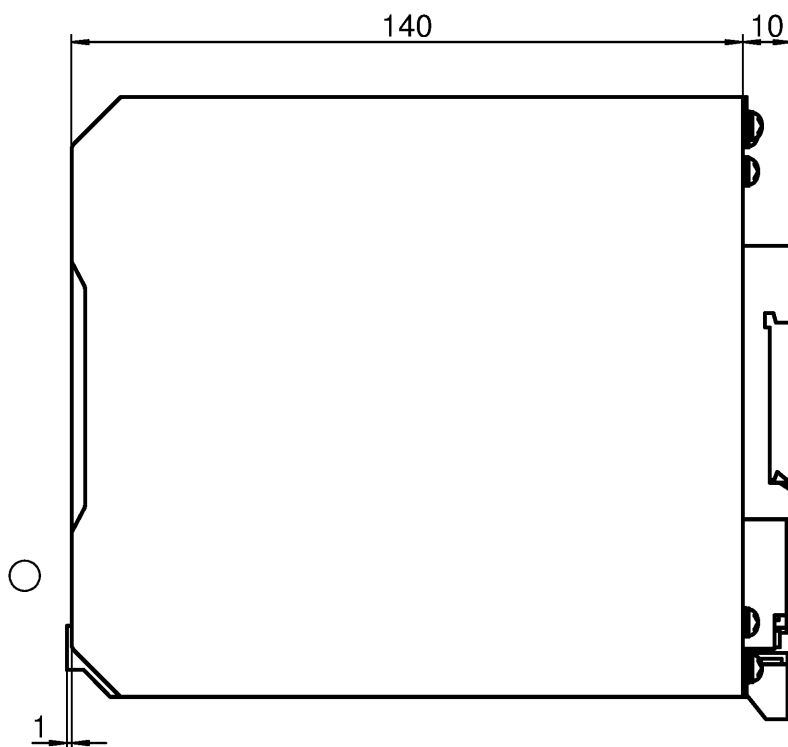
Classification

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| ECLASS 11 | |
| ECLASS 8.1 | 27049002 |
| ETIM 7.0 | EC002540 |

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| ETIM 6.0 | EC002540 |
| ETIM 5.0 | EC002540 |

Product compliance

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| REACH-SVHC conformity status | Compliant |
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ja/yes Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.
Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared!

| | | | | | | | |
|--|--|--|--|---|------------------|------------------|--|
| Freitoleranz nach General tolerance | | CAD-Zeichnung, keine manuellen Änderungen CAD-Drawing, no manual modifications allowed | | 1. Verwendung: First Use: | | Blatt: Sheet: | |
|  Maßstab/Scale | | Werkstoff/ Material | | 2015 | Tag/ Date | Name | |
| | | | | gezeichnet drawn | 20.01. | Kötzner | |
| | | | | geprüft checked | | | |
| | | | | Normgepr. Stand. check | | | |
| | | Datei/ File: 042281__01K.DCD | | Ersatz für/ Replacement for: | | | |
| | |  wieland www.wieland-electric.com | | Type | Benennung/ Title | | |
| Index | | | | Teilespezifikation / Component specification | | | |
| Datum/ Blatt Date/ Sheet | | Schaltnetzteil / Switching Power Supply | | | | | |
| Änderung/ Revision | | wipos PS1 24 V DC / 20 A | | | | | |

Zeichnung Nr./ Drawing No.
81.000.6550.0 01K

Maße in mm/Dimensions are in mm

A
1
2
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17
18
19
20
M1
M2
M3
L
G
i
11.1
12.1
1.1