

## product data sheet

item no. 81.000.6180.0

### switched-mode power supply WIPOS P3 24-20

wipos switched-mode power supply, nominal voltage: 24 V DC / 20A (setting range 22,5-28,5 V DC), sustained short-circuit protection, input voltage range: 340-575 V AC, 480-820 V DC, 3 phase, W x H x D: 150 × 123,6 × 118,2 mm



|            |               |
|------------|---------------|
| item no.   | 81.000.6180.0 |
| EAN        | 4049088058240 |
| order unit | 1 piece(s)    |

#### certificates / approvals



#### technical data

##### general

|                                      |                      |
|--------------------------------------|----------------------|
| connection type                      | screw connection     |
| number of phases                     | 3 phase power supply |
| suitable for modular version         | no                   |
| mounting type, other                 | no                   |
| mounting type, wall mounting         | no                   |
| rail mounting possible               | yes                  |
| housing material                     | metal                |
| operating temperature min.           | -30 °C               |
| operating temperature max.           | 71 °C                |
| relative humidity min.               | 20 %                 |
| relative humidity max.               | 95 %                 |
| storage temperature / transport min. | 85 °C                |
| storage temperature / transport max. | -30 °C               |
| degree of protection (IP)            | IP20                 |
| pollution degree                     | 2                    |
| parallel-service possible            | yes                  |
| number of parallel switchable device | 2                    |

##### technical data

|                                  |                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| function display                 | "DC OK" (LED green) (U(o) 17.6...19.4V)                                                                                                                                    |
| function display "DC Low"        | "DC Low" (LED red)                                                                                                                                                         |
| short-circuit protective device  | Continuous (switch setting "C"): Current limiting (fold Forward)Discontinuous (switch setting "D"): Hiccup-Mode: Cut-off after 3 seconds, autom. restart after 30 seconds. |
| temperature coefficient          | ±0,03%/K                                                                                                                                                                   |
| ripple and noise                 | < 0.1 V                                                                                                                                                                    |
| isolating voltage Output DC      | 4242 V                                                                                                                                                                     |
| cohesive resistance (In-/Output) | 100 MOhm                                                                                                                                                                   |
| derating                         | 61°C...71°C: 2.5 %/K                                                                                                                                                       |
| cooling                          | free convection                                                                                                                                                            |

|                                     |                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MTBF                                | 411,000h                                                                                                                                                                                                                                                                     |
| connector cross section (input)     | min. 0.5mm <sup>2</sup> (AWG24)max. 6mm <sup>2</sup> (AWG10)                                                                                                                                                                                                                 |
| connector cross section (output)    | min. 0.5mm <sup>2</sup> (AWG24)max. 6mm <sup>2</sup> (AWG10)                                                                                                                                                                                                                 |
| wire strip length                   | 8 m                                                                                                                                                                                                                                                                          |
| permissible torque max.             | 0.6 Nm                                                                                                                                                                                                                                                                       |
| control "Continuous/ Discontinuous" | behaviour at short circuiting (Fold Forward/Hiccup mode)                                                                                                                                                                                                                     |
| control "Single / Parallel"         | operating mode: single operation / parallel operation                                                                                                                                                                                                                        |
| 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 |
| TÜV/safety                          | EN60950-1, EN61558-1, EN61558-2-16(comply with EN60204) , IRAM                                                                                                                                                                                                               |
| approval UL                         | UL 508 Listed, UL60950-1 Recognized                                                                                                                                                                                                                                          |
| number of +                         | 2                                                                                                                                                                                                                                                                            |
| number of -                         | 2                                                                                                                                                                                                                                                                            |
| further terminals                   | L1, L2, L3, N, PE, OK (2x Relay-NO)                                                                                                                                                                                                                                          |

#### output

|                               |        |
|-------------------------------|--------|
| type of output voltage        | DC     |
| power output                  | 480 W  |
| output voltage stabilized     | yes    |
| output voltage                | 24 V   |
| min. output voltage           | 22.5 V |
| max. output voltage           | 28.5 V |
| Over voltage protection (OVP) | # 33 V |
| output current                | 20 A   |

#### input

|                                 |                                       |
|---------------------------------|---------------------------------------|
| type of voltage (input voltage) |                                       |
| power consumption               | < 533 VA                              |
| input voltage DC min.           | 480 V                                 |
| input voltage DC max.           | 820 V                                 |
| input voltage AC min.           | 340 V                                 |
| input voltage AC max.           | 575 V                                 |
| rated frequency min.            | 47 Hz                                 |
| rated frequency max.            | 63 Hz                                 |
| max. starting current           | 20 A                                  |
| input fuse                      | 3x T3,15A / 500V AC (intern)          |
| input protection                | varistor (voltage-sensitive resistor) |

#### dimensions

|                              |         |
|------------------------------|---------|
| depth                        | 119 mm  |
| width                        | 151 mm  |
| height                       | 124 mm  |
| mounting distance horizontal | 25 mm   |
| mounting distance vertical   | 25 mm   |
| weight                       | 1.75 kg |

