

Power Supply Emparro20-Pro-1-phase

In: 100 - 240 VAC / 100 - 230 VDC; OUT: 22 - 28 V/20ADC

The single-phase DIN rail power supplies of the Emparro20-Pro series offer even more functions than the Emparro. With the optional IO-Link adapter, the switching power supply can be controlled and monitored remotely, which enables comprehensive integration into your control system. In addition, these power supplies have integrated electronic load circuit monitoring, which means that external line protection on the DC side is no longer required. This not only reduces the installation effort, but also increases the reliability of the power supply. Emparro20-Pro also gives you access to extensive diagnostic information to minimize disruptions and downtime and maximize the efficiency of your application.

Link to Product

Illustration



Product may differ from Image



Electrical data

|                                            |           |
|--------------------------------------------|-----------|
| Number of devices parallel connection max. | 2         |
| Number of devices series connection max.   | 2         |
| Parallel connection                        | yes       |
| Series connection                          | yes       |
| Security level                             | SELV/PELV |

Electrical data | Supply

|                 |          |
|-----------------|----------|
| Power frequency | 50/60 Hz |
|-----------------|----------|

Electrical data | Input

|                                     |       |
|-------------------------------------|-------|
| Input current at input voltage 2 DC | 2,2 A |
| Input current at input voltage 1 DC | 5,2 A |
| Input voltage 1 AC                  | 100 V |
| Input voltage 1 DC                  | 100 V |
| Input voltage 2 AC                  | 240 V |
| Input voltage 2 DC                  | 230 V |
| Input voltage AC min.               | 90 V  |
| Input voltage AC max.               | 264 V |
| Input voltage DC min.               | 90 V  |
| Input voltage DC max.               | 250 V |

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Input current at input voltage 1 AC | 5,3 A                                |
| Input current at input voltage 2 AC | 2,2 A                                |
| Phase number input                  | 2                                    |
| Efficiency                          | 93,3 % @ 115 V AC, 95,2 % @ 230 V AC |

#### Electrical data | Output

|                           |        |
|---------------------------|--------|
| Output rating             | 576 W  |
| Output voltage DC         | 24 V   |
| Output voltage DC min.    | 22 V   |
| Output voltage DC max.    | 28 V   |
| Output current            | 24 A   |
| Duration Power Boost min. | 5 s    |
| Ripple (s-s) max.         | 10 mV  |
| Spikes (s-s) max.         | 200 mV |

#### Diagnostics

|               |     |
|---------------|-----|
| Alarm contact | yes |
|---------------|-----|

#### Installation | Connection

|            |                                |
|------------|--------------------------------|
| Connection | Push-In spring clamp terminals |
|------------|--------------------------------|

#### Device protection | Electrical

|                                     |        |
|-------------------------------------|--------|
| Installation height max. ASL        | 5000 m |
| Degree of protection (EN IEC 60529) | IP20   |
| Protection class (EN IEC 61140)     | I      |
| Overload protection output          | yes    |
| Pollution Degree                    | 2      |
| Short-circuit protection output     | yes    |
| Overtemperature protection output   | yes    |

#### Device protection | Mechanical

|              |                    |
|--------------|--------------------|
| Cooling type | Natural convection |
|--------------|--------------------|

#### Mechanical data | Material data

|                                     |                            |
|-------------------------------------|----------------------------|
| Combustibility class housing (UL94) | V-0                        |
| Conformal coated PCB                | no                         |
| Material housing                    | Aluminium, Stainless steel |

#### Mechanical data | Mounting data

|                            |                          |
|----------------------------|--------------------------|
| Net weight                 | 890 g                    |
| Mounting method            | screwed                  |
| Suitable for mounting type | Schlüssellochtaufhängung |
| mounting position          | horizontal, vertical     |
| Height                     | 146 mm                   |
| Width                      | 50 mm                    |
| Depth                      | 137 mm                   |

#### Environmental characteristics | Climatic

|                                    |        |
|------------------------------------|--------|
| Ambient temperature min.           | -40 °C |
| Ambient temperature max.           | 70 °C  |
| Derating from                      | 60 °C  |
| Storage temperature min.           | -40 °C |
| Storage temperature max.           | 85 °C  |
| Relative humidity min. (operation) | 5 %    |
| Relative humidity max. (operation) | 95 %   |

#### Environmental product conformity

|            |                   |
|------------|-------------------|
| REACH      | (EC) No 1907/2006 |
| REACH-SVHC | compliant         |
| RoHS       | 2011/65/EU        |

|                       |                     |
|-----------------------|---------------------|
| China RoHS            | compliant   EPUP 20 |
| WEEE                  | compliant           |
| Conformity            |                     |
| CE                    | 2014/30/EU          |
| Approvals             |                     |
| UL                    | E200364             |
| ULc                   | E200364             |
| SEMI F47              | compliant           |
| Commercial data       |                     |
| customs tariff number | 85044095            |
| GTIN                  | 4048879894463       |
| Packaging unit        | 1                   |