

## Power supply unit - QUINT-PS-3X400AC/24DC/40 - 2939849

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Power supply unit, primary switched-mode, input 3 x 400 V AC, output 24 V DC/40 A

### Key Commercial Data

|                                      |                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                  |
| GTIN                                 | <br>4 017918 155339 |
| GTIN                                 | 4017918155339                                                                                         |
| Weight per Piece (excluding packing) | 5,418.000 g                                                                                           |
| Custom tariff number                 | 85044094                                                                                              |
| Country of origin                    | XX                                                                                                    |

### Technical data

#### Dimensions

|        |        |
|--------|--------|
| Width  | 286 mm |
| Height | 156 mm |
| Depth  | 150 mm |

#### Ambient conditions

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| Degree of protection                           | IP20                            |
| Ambient temperature (operation)                | 0 °C ... 70 °C (UL up to 50°C)  |
| Ambient temperature (storage/transport)        | -25 °C ... 85 °C                |
| Max. permissible relative humidity (operation) | 95 % (at 25 °C, non-condensing) |

#### Input data

|                       |                     |
|-----------------------|---------------------|
| Nominal input voltage | 3x 400 VAC          |
| Input voltage range   | 325 VAC ... 460 VAC |
| AC frequency range    | 47 Hz ... 63 Hz     |
| Current consumption   | approx. 3.2 A       |
| Inrush current        | < 29 A (at 25 °C)   |

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## Technical data

### Input data

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Mains buffering time | > 20 ms                                                 |
| Input fuse           | 10 A (externally via circuit breaker, characteristic B) |

### Output data

|                                                   |                                                                 |
|---------------------------------------------------|-----------------------------------------------------------------|
| Nominal output voltage                            | 24 VDC $\pm 1\%$                                                |
| Setting range of the output voltage ( $U_{Set}$ ) | 22.5 V ... 28.5 V (> 24 V DC, constant capacity restricted)     |
| Nominal output current ( $I_N$ )                  | 40 A                                                            |
| Connection in parallel                            | Yes, for assembling redundant systems and increasing efficiency |
| Residual ripple                                   | 150 mV <sub>PP</sub>                                            |
| Peak switching voltages idling                    | 100 mV <sub>PP</sub> (1.2 MHz bandwidth)                        |
| Maximum power dissipation in no-load condition    | < 9 W                                                           |
| Power loss nominal load max.                      | < 131 W                                                         |

### General

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Net weight                      | 5.1 kg                                                                 |
| Operating voltage display       | LED                                                                    |
| Efficiency                      | > 88 %                                                                 |
| MTBF (IEC 61709, SN 29500)      | > 500000 h                                                             |
| Insulation voltage input/output | 1.8 kV (routine test)                                                  |
|                                 | 3 kV (type test)                                                       |
| Degree of protection            | IP20                                                                   |
| Mounting position               | On horizontal DIN rail NS 35 in acc. with EN 60715                     |
| Assembly instructions           | alignable: vertical with spacing = 10 cm, horizontal with zero spacing |

### Connection data, input

|                                       |                            |
|---------------------------------------|----------------------------|
| Connection method                     | Pluggable screw connection |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>        |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup>        |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup>        |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup>        |
| Conductor cross section AWG min.      | 24                         |
| Conductor cross section AWG max.      | 14                         |
| Stripping length                      | 8 mm                       |
| Screw thread                          | M2,5                       |

### Connection data, output

|                                    |                            |
|------------------------------------|----------------------------|
| Connection method                  | Pluggable screw connection |
| Conductor cross section solid min. | 0.5 mm <sup>2</sup>        |
| Conductor cross section solid max. | 16 mm <sup>2</sup>         |

## Power supply unit - QUINT-PS-3X400AC/24DC/40 - 2939849

### Technical data

#### Connection data, output

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max. | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 6                   |
| Stripping length                      | 8 mm                |
| Screw thread                          | M2,5                |

#### Standards and Regulations

|                               |                                          |
|-------------------------------|------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC directive 89/336/EC |
| Standard - Electrical safety  | EN 60950/VDE 0805-1                      |
|                               | DIN EN 50178/VDE 0160:1998-04            |
|                               | UL 508C                                  |
|                               | CSA C22.2-14                             |
|                               | UL 1950                                  |
|                               | CSA C22.2-950                            |
|                               | DIN VDE 0100-410                         |
|                               | DIN VDE 0106-101                         |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27040702 |
| eCl@ss 4.1 | 27040702 |
| eCl@ss 5.0 | 27242213 |
| eCl@ss 5.1 | 27242213 |
| eCl@ss 6.0 | 27049005 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001039 |
| ETIM 3.0 | EC001039 |
| ETIM 4.0 | EC000599 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211502 |
| UNSPSC 7.0901 | 39121004 |
| UNSPSC 11     | 39121004 |
| UNSPSC 13.2   | 39121004 |

