

# EG 45-PS-230AC/ 5DC/250 - Power supply



2940676

<https://www.phoenixcontact.com/us/products/2940676>

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The figure shows version EG 45-PS-120AC/ 5DC/250

DIN rail power supply unit, secondary-switched, input 230 V AC, output 4-13 V DC/250 mA, pre-setting 5 V DC

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2940676                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CM11                           |
| Product key                          | CMPL11                         |
| GTIN                                 | 4017918080198                  |
| Weight per piece (including packing) | 533.1 g                        |
| Weight per piece (excluding packing) | 533.1 g                        |
| Customs tariff number                | 85044082                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                |                       |
|----------------|-----------------------|
| Operating mode | 100% operating factor |
|----------------|-----------------------|

### Electrical properties

|                           |         |
|---------------------------|---------|
| Test voltage input/output | 4 kV AC |
|---------------------------|---------|

### Input data

|                                |  |
|--------------------------------|--|
| Input voltage                  | 230 V AC                                     |
| Voltage type of supply voltage | AC   |
| AC frequency range             | 50 Hz ... 60 Hz                              |
| Mains buffering time           | 35 ms  |
| Current consumption            | approx. 33 mA                                |
| Nominal power consumption      | approx. 8 VA                                 |
| Input fuse                     | 0.4 A (slow-blow TR 5, internal, solderable) |

### Output data

|                                  |  |
|----------------------------------|--|
| Nominal output voltage           | 4 V DC $\pm 2\%$ (can be set up to 13 V DC. Default 5 V DC $\pm 4\%$ ) |
| Nominal output current ( $I_N$ ) | 250 mA   |
| Residual ripple                  | < 100 mV <sub>PP</sub>   |
| Short-circuit-proof              | yes  |
| No-load proof                    | yes  |
| Protective circuit               | Electronic disconnect at 1.3 x I <sub>N</sub> ; Varistor               |

### Connection data

#### Input

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Connection method                     | COMBICON plug-in screw terminal block |
| Conductor cross-section, rigid min.   | 0.2 mm <sup>2</sup>                   |
| Conductor cross-section, rigid 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                          | M3                                    |

#### Output

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Connection method                     | COMBICON plug-in screw terminal block |
| Conductor cross-section, rigid min.   | 0.2 mm <sup>2</sup>                   |
| Conductor cross-section, rigid 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                                    |

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|                                  |      |
|----------------------------------|------|
| Conductor cross-section AWG max. | 14   |
| Stripping length                 | 8 mm |
| Screw thread                     | M3   |

## Dimensions

|        |        |
|--------|--------|
| Width  | 45 mm  |
| Height | 107 mm |
| Depth  | 77 mm  |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                |
|---------------------------------|----------------|
| Degree of protection            | IP20           |
| Ambient temperature (operation) | 0 °C ... 60 °C |

## Approvals

### Conformity/Approvals

|                                  |   |
|----------------------------------|---|
| SIL in accordance with IEC 61508 | 0 |
|----------------------------------|---|

## Standards and regulations

### Standards

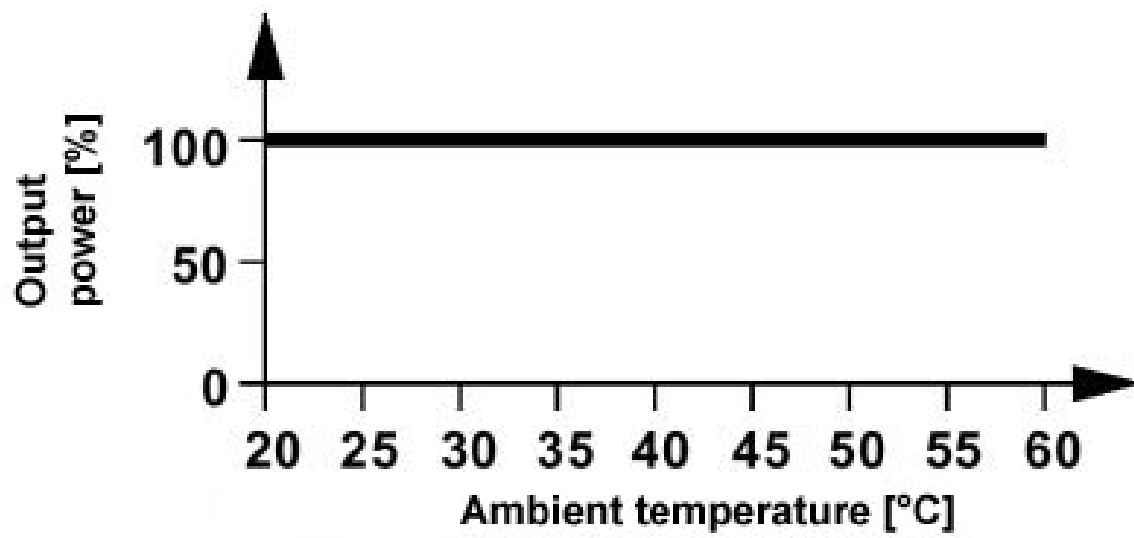
|                       |                       |
|-----------------------|-----------------------|
| Standards/regulations | prEN 50178            |
|                       | DIN EN 50178/VDE 0160 |
|                       | DIN VDE 0106-101      |
|                       | DIN VDE 0551          |

## Mounting

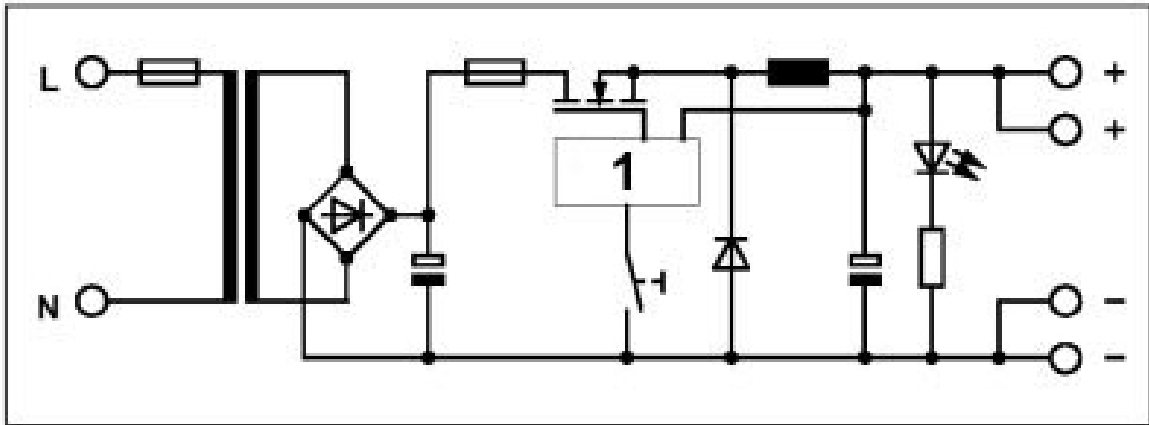
|                   |                                     |
|-------------------|-------------------------------------|
| Mounting type     | DIN rail mounting                   |
| Assembly note     | can be aligned with spacing = 10 mm |
| Mounting position | On horizontal DIN rail              |

Drawings

Diagram



Circuit diagram



1 = switched-mode regulator

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## Environmental product compliance

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-25<br>An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
|--|--|

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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