

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



2940676

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

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

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

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
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Electrical properties

Test voltage input/output	4 kV AC
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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	$< 100 \text{ mV}_{PP}$
Short-circuit-proof	yes
No-load proof	yes
Protective circuit	Electronic disconnect at $1.3 \times I_N$; Varistor

Connection data

Input

Connection method	COMBICON plug-in screw terminal block
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	2.5 mm ²
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 ²
Conductor cross-section, rigid max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	2.5 mm ²
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
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Standards and regulations

Standards

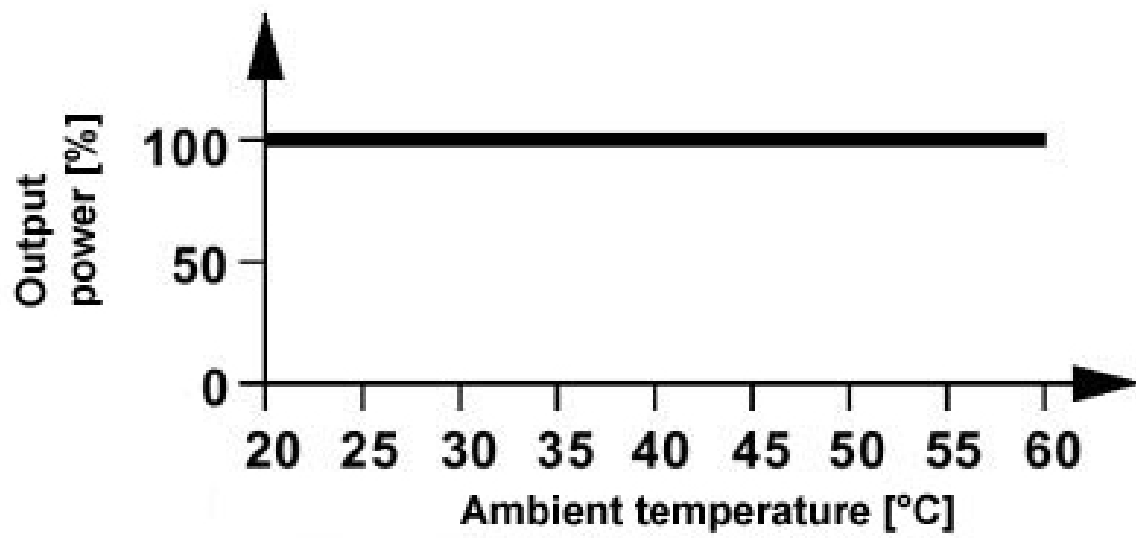
Standards/regulations	prEN 50178
	DIN EN 50178/VDE 0160
	DIN VDE 0106-101
	DIN VDE 0551

Mounting

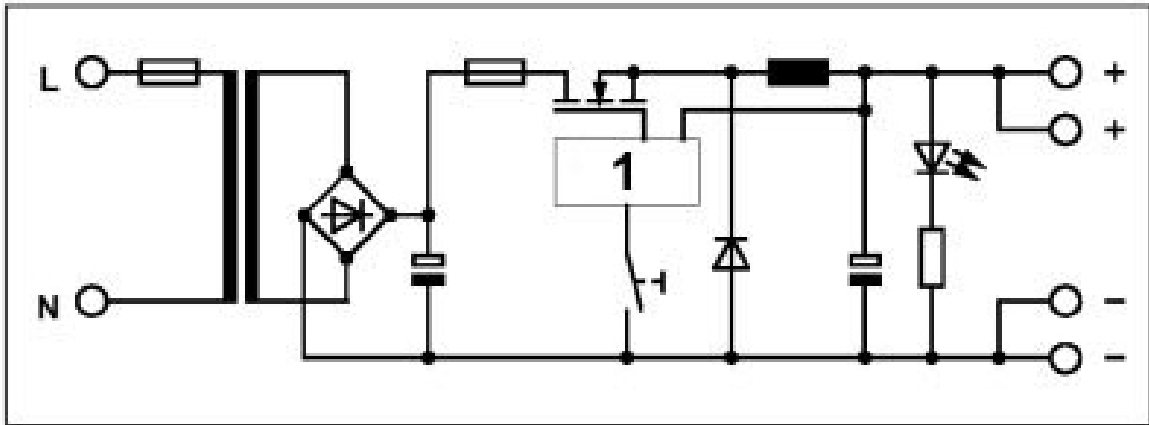
Mounting type	DIN rail mounting
Assembly note	can be aligned with spacing = 10 mm
Mounting position	On horizontal DIN rail

Drawings

Diagram



Circuit diagram



1 = switched-mode regulator

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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	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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