INDUSTRIAL COMPONENT DATA

ESSENTIAL-PS/1AC/24DC/480W/EE 2910588 PHOENIX CONTACT Power supply unit

Brand: PHOENIX CONTACT | Manufacturer Part Number: ESSENTIAL-PS/1AC/24DC/480W/EE



Manufacturer	PHOENIX CONTACT
MPN / Reference	ESSENTIAL-PS/1AC/24DC/480W/EE
Catalog number	2910588
Category	DC-power supply
Minimum order	1 Pcs
Document ID	EO-8C2AFEBE6A
Generated	2026-11-18

Product Overview

Power supply unit
ESSENTIAL edition primary switch-mode power supply for rail mounting, input: single-phase, output: 24 V DC/480 W

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path	PHOENIX CONTACT > Power Supplies (PS)

Additional Product Information

Key Commercial Data
Orderkey 2910588
Packing unit 1 pc
GTIN 4055626463391
Weight per Piece (excluding packing) 1,480.000 g
Custom tariff number 85044030
Country of origin TH (Thailand)
Dimensions
Width 85.5 mm
Height 123.6 mm
Depth 128.5 mm
Installation distances left/right 10 mm
Installation distances top/bottom 50 mm
Ambient conditions

Degree of protection IP20
Ambient temperature (operation) -20 °C ... 70 °C
Ambient temperature (storage/transport) -40 °C ... 85 °C
Max. permissible relative humidity (operation) <= 95 % (at 25 °C, non-condensing)
Degree of pollution 2
Installation height <= 5000 m (> 2000 m, Derating: 10 %/1000 m)
Input data
Nominal input voltage range 100 V AC ... 240 V AC
Input voltage range 85 V AC ... 264 V AC
AC frequency range 47 Hz ... 63 Hz
Discharge current to PE < 1 mA (264 V AC)
Current consumption 5.4 A (115 V AC)
2.7 A (230 V AC)
Inrush surge current typ. 40 A (115 V AC)
typ. 80 A (230 V AC)
Mains buffering typ. 10 ms (115 V AC)
typ. 16 ms (230 V AC)
Input fuse 10 A (fast blow, internal)
Type of protection Transient surge protection
Protective circuit/component Varistor
Output data
Nominal output voltage 24 V DC ±2 %
Setting range of the output voltage (USet) 22 V DC ... 28 V DC (max. power <= 280 W)
Nominal output current (IN) 20 A
Derating > 40 °C (1.67 % / °C, 115 V AC)
> 50 °C (2.5 % / °C, 230 V AC)
Max. capacitive load 8000 uF
Active current limitation 109% - 130% of the max. output power (in the event of short circuit)
Residual ripple < 120....

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / ESSENTIAL-PS/1AC/24DC/480W/EE with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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