

INDUSTRIAL COMPONENT DATA

STEP3-PS/1AC/48DC/2.5/PT 1285035 PHOENIX CONTACT

Primary switching power supplies, STEP POWER, Push-in conne..

Brand: PHOENIX CONTACT | Manufacturer Part Number: STEP3-PS/1AC/48DC/2.5/PT



Manufacturer	PHOENIX CONTACT
MPN / Reference	STEP3-PS/1AC/48DC/2.5/PT
Catalog number	1285035
Category	DC-power supply
Minimum order	1 Pcs
Document ID	EO-21D798EBDB
Generated	2026-08-03

Product Overview

Primary switching power supplies, STEP POWER, Push-in connection, Rail and direct mounting, input: 1 phase, output: 48 V DC / 2.5 A, adjustable from 48 V DC ... 56 V DC, PoE application up to 120 W

Primary Switching Power Supplies, STEPPower, Push-in Connection, Rail & Direct Mount, Input:1-Phase, Output: 48 VDC / 2.5 A

Primary-switched power supply unit, STEP POWER, Push-in connection, DIN rail or direct mounting, input: 1-phase, output: 48 V DC / 2.5 A, adjustable from 48 V DC ... 56 V DC, PoE application up to 120 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
--------------	-----------------

Additional Product Information

Technical dataInput dataAC operation

Supply system configuration Star network (TN, TT, IT (PE))

Input voltage range 120 V AC ... 240 V AC ? 10 % (120 W)

95 V AC ... 120 V AC ? 10 % (96 W)

Typical national grid voltage 120 V AC

230 V AC

Voltage type of supply voltage AC

Inrush current typ. 35 A

Inrush current integral (I_{2t}) typ. 0.03 A²s
Frequency range (f_N) 50 Hz ... 60 Hz ±10 %
Mains buffering time typ. 19 ms (120 V AC)
typ. 20 ms (230 V AC)
Current consumption 1.11 A (120 V AC)
0.56 A (240 V AC)
Protective circuit Transient surge protection; Varistor
Switch-on time typ. 2 s
Device mains fuse 4 A internal (device protection), slow-blow
Recommended breaker for input protection 6 A ... 16 A (Characteristics B, C, D, K)
Discharge current to PE < 0.25 mA
DC operation
Input voltage range 125 V DC ... 250 V DC ? 10 % (120 W)
99 V DC ... 125 V DC ? 10 % (96 W)
Voltage type of supply voltage DC
Current consumption 1.05 A (125 V DC)
0.51 A (250 V DC)
Output data Efficiency > 94 % (120 V AC)
> 95.5 % (230 V AC)
Nominal output voltage 48 V DC
Setting range of the output voltage (U_{Set}) 48 V DC ... 56 V DC (> 48 V DC, constant capacity restricted)
Nominal output current (I_N) 2.5 A (120 W)
2 A (96 W)
Short-circuit-proof yes
No-load proof yes
Derating > 50 °C ... 70 °C (2 % / K)
Crest factor typ. 1,64 (120 V AC)
typ. 1.69 (230 V AC)
Output power (P_N) 120 W
96 W
Connection in parallel yes, for increasing power and redundancy with diode
Connection in series yes, for increased output voltage....

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / STEP3-PS/1AC/48DC/2.5/PT 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

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.