

INDUSTRIAL COMPONENT DATA

STEP-PS/ 1AC/24DC/2.5 2868651 PHOENIX CONTACT Power supply unit

Brand: PHOENIX CONTACT | Manufacturer Part Number: STEP-PS/ 1AC/24DC/2.5



Manufacturer	PHOENIX CONTACT
MPN / Reference	STEP-PS/ 1AC/24DC/2.5
Catalog number	2868651
Category	DC-power supply
Minimum order	1 Pcs
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Product Overview

Power supply unit

STEP POWER primary switch-mode power supply for rail mounting, input: single-phase, output: 24 V DC/2.5 A

Primary-switched STEP POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/2.5 A

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

Technical dataInput dataAC operation

Nominal input voltage range 100 V AC ... 240 V AC

Input voltage range 85 V AC ... 264 V AC

95 V DC ... 250 V DC

Input voltage range AC 85 V AC ... 264 V AC

Input voltage range DC 95 V DC ... 250 V DC

Voltage type of supply voltage AC/DC

Inrush current < 15 A (typical)

Inrush current integral (I_{2t}) < 0.6 A²s

AC frequency range 45 Hz ... 65 Hz

Frequency range DC 0 Hz

Mains buffering time typ. 20 ms (120 V AC)

typ. 100 ms (230 V AC)

Current consumption 0.8 A (120 V AC)
0.4 A (230 V AC)
Nominal power consumption 124.3 VA
Protective circuit Transient surge protection; Varistor
Power factor (cos phi) 0.56
Typical response time < 0.5 s
Input fuse 3.15 A (slow-blow, internal)
Recommended breaker for input protection 6 A ... 16 A (Characteristics B, C, D, K)
Output data Efficiency > 86 % (for 230 V AC and nominal values)
Output characteristic U/I
Nominal output voltage 24 V DC
Setting range of the output voltage (USet) 22.5 V DC ... 29.5 V DC (> 24 V DC, constant capacity restricted)
Output current I_{max} 4.4 A
Nominal output current (I_N) 2.5 A (-25 °C ... 55 °C)
2.75 A (-25 °C ... 40 °C permanent)
Derating 55 °C ... 70 °C (2.5 %/K)
Feedback voltage resistance ≤ 35 V DC
Protection against overvoltage at the output (OVP) ≤ 35 V DC
Control deviation < 1 % (change in load, static 10 % ... 90 %)
< 2 % (change in load, dynamic 10 % ... 90 %)
< 0.1 % (change in input voltage ±10 %)
Residual ripple < 80 mVPP(20 MHz)
Output power 60 W
Peak switching voltages...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / STEP-PS/ 1AC/24DC/2.5 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

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