

INDUSTRIAL COMPONENT DATA

STEP-PS/48AC/24DC/0.5 2868716 PHOENIX CONTACT Power supply unit

Brand: PHOENIX CONTACT | Manufacturer Part Number: STEP-PS/48AC/24DC/0.5



Manufacturer	PHOENIX CONTACT
MPN / Reference	STEP-PS/48AC/24DC/0.5
Catalog number	2868716
Category	DC-power supply
Minimum order	1 Pcs
Document ID	EO-CDC51BC162
Generated	2026-08-03

Product Overview

Power supply unit

STEP POWER primary switching power supply for rail mounting, input: single-phase, output: 24 V DC/0.5 A

Primary-switched STEP POWER power supply for DIN rail and direct mounting, input: 1-phase, output: 24 V DC/0.5 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 48 V AC

Input voltage range 43 V AC ... 52 V AC

60 V DC ... 80 V DC

Input voltage range AC 43 V AC ... 52 V AC

Input voltage range DC 60 V DC ... 80 V DC

Voltage type of supply voltage AC/DC

Inrush current < 10 A (typical)

Inrush current integral (I_{2t}) < 0.1 A²s

AC frequency range 45 Hz ... 65 Hz

Frequency range DC 0 Hz

Mains buffering time typ. 15 ms (48 V AC)

typ. 20 ms (52 V AC)

Current consumption 0.5 A (43 V AC)
0.45 A (48 V AC)
Nominal power consumption 21 VA
Power factor (cos phi) 0.7
Typical response time < 0.5 s
Input fuse 1.25 A (slow-blow, internal)
Recommended breaker for input protection 6 A ... 16 A (Characteristics B, C, D, K)
Output data Efficiency > 81 % (for 48 V AC and nominal values)
Output characteristic U/I
Nominal output voltage 24 V DC
Output current I_{max} 1 A
Nominal output current (I_N) 0.5 A (-25 °C ... 55 °C)
0.55 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 < 30 mVPP(20 MHz)
Output power 12 W
Peak switching voltages nominal load < 20 mVPP(20 MHz)
Maximum no-load power dissipation < 0.3 W
Power loss nominal load max. < 3.4 W
Connection in parallel yes, for redundancy and increased capacity
Connection in ser...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / STEP-PS/48AC/24DC/0.5 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.