

INDUSTRIAL COMPONENT DATA

STEP-PS/277AC/24DC/3.5 2904945 PHOENIX CONTACT Power supply unit

Brand: PHOENIX CONTACT | Manufacturer Part Number: STEP-PS/277AC/24DC/3.5



Manufacturer	PHOENIX CONTACT
MPN / Reference	STEP-PS/277AC/24DC/3.5
Catalog number	2904945
Category	DC-power supply
Minimum order	1 Pcs
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Product Overview

Power supply unit

Power supply. Carr. system, 24 V DC/3.5 A, primary switched, monof.

DIN rail power supply unit 24 V DC/3.5 A, primary switched-mode, 1-phase.

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)
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Additional Product Information

Technical dataInput dataAC operation

Nominal input voltage range 100 V AC ... 277 V AC

Input voltage range 85 V AC ... 305 V AC

95 V DC ... 250 V DC

Input voltage range AC 85 V AC ... 305 V AC

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

Voltage type of supply voltage AC/DC

Inrush current < 40 A (typical)

Inrush current integral (I_{2t}) < 2.8 A²s

AC frequency range 45 Hz ... 65 Hz

Frequency range DC 0 Hz

Mains buffering time typ. 25 ms (120 V AC)

typ. 160 ms (277 V AC)

Current consumption 1.43 A (120 V AC)

0.75 A (277 V AC)

Nominal power consumption 147.7 VA

Power factor (cos phi) 0.64

Typical response time < 0.5 s

Input fuse 4 A (slow-blow, internal)

Permissible backup fuse B6 B10 B16

Recommended breaker for input protection 6 A ... 16 A (Characteristics B, C, D, K)

Output dataEfficiency > 88 % (for 277 V AC and nominal values)

Output characteristic U/I

Nominal output voltage 24 V DC ± 1 %

Setting range of the output voltage (USet) 22.5 V DC ... 25 V DC (> 24 V DC, constant capacity restricted)

Output current I_{max} 6 A

Nominal output current (I_N) 3.5 A (-25 °C ... 55 °C)

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 < 10 mVPP(20 MHz)

Output power 84 W

Peak switching voltages nominal load < 30 mVPP(20 MHz)

Maximum no-load power dis...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / STEP-PS/277AC/24DC/3.5 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

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