

**INDUSTRIAL COMPONENT DATA**

# TRIO3-PS/1AC/24DC/20 1159039 PHOENIX CONTACT

## TRIO3-PS/1AC/24DC/20 Power supply

Brand: PHOENIX CONTACT | Manufacturer Part Number: TRIO3-PS/1AC/24DC/20



|                 |                      |
|-----------------|----------------------|
| Manufacturer    | PHOENIX CONTACT      |
| MPN / Reference | TRIO3-PS/1AC/24DC/20 |
| Catalog number  | 1159039              |
| Category        | DC-power supply      |
| Minimum order   | 1 Pcs                |
| Document ID     | EO-0FDDDD17A16       |
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### Product Overview

TRIO3-PS/1AC/24DC/20 - Power supply

Primary switching power supplies, TRIO POWER, Push-in connection, Rail mounting, input:1phase, output: 24 VDC / 20 A  
Primary-switched power supply unit, TRIO POWER, Push-in connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 20 A, adjustable from 24 V DC ... 28 V DC

**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 data  
Input data  
AC operation  
Supply system configuration Star network (TN, TT, IT (PE))  
Nominal input voltage range 100 V AC ... 240 V AC  
Input voltage range 100 V AC ... 240 V AC -15 % ... +10 %  
115 V AC ... 240 V AC  $\pm 10\%$  (UL)  
Derating < 100 V AC (1 %/V)  
2.5 %/K, > 60 °C  
Typical national grid voltage 120 V AC  
230 V AC  
Voltage type of supply voltage AC  
Inrush current < 21 A (25 °C)  
Inrush current integral (I<sub>2t</sub>) < 1.091 A<sup>2</sup>s

Frequency range (fN) 50 Hz ... 60 Hz  $\pm 10\%$   
Mains buffering time typ. 23 ms (120 V AC)  
typ. 24 ms (230 V AC)  
Current consumption 5.3 A (100 V AC)  
4.4 A (120 V AC)  
2.3 A (230 V AC)  
2.15 A (240 V AC)  
Protective circuit Transient protection; Varistor  
Power factor (cos phi) 0.96 (230 V AC)  
Device mains fuse 10 A internal (device protection)  
Recommended breaker for input protection 6 A ... 16 A (Characteristic B, C, D, K or comparable)  
Discharge current to PE < 3.5 mA  
DC operation  
Input voltage range 100 V DC ... 240 V DC  $\pm 10\%$   
160 V DC ... 240 V DC  $\pm 10\%$  (UL)  
Derating < 140 V DC (1 %/V)  
Current consumption 5.2 A (100 V DC)  
2.1 A (240 V DC)  
Output data Efficiency typ. 93.8 % (120 V AC)  
typ. 95 % (230 V AC)  
Nominal output voltage 24 V DC  
Setting range of the output voltage (USet) 24 V DC ... 28 V DC (> 24 V DC, constant capacity restricted)  
Nominal output current (IN) 20 A  
Dynamic Boost (IDyn.Boost) max. 30 A (5 s)  
Short-circuit-proof yes  
No-load proof yes  
Derating 60 °C ... 70 °C  
Crest factor typ. 1.77 (120 V AC)  
typ. 1.6 (230 V AC)  
Output power (PN) 480...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / TRIO3-PS/1AC/24DC/20 with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

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