

INDUSTRIAL COMPONENT DATA

TRIO3-PS/3AC/24DC/20 1159044 PHOENIX CONTACT Primary switching power supplies, TRIO POWER, Push-in connectio..

Brand: PHOENIX CONTACT | Manufacturer Part Number: TRIO3-PS/3AC/24DC/20



Manufacturer	PHOENIX CONTACT
MPN / Reference	TRIO3-PS/3AC/24DC/20
Catalog number	1159044
Category	DC-power supply
Minimum order	1 Pcs
Document ID	EO-E1FB578421
Generated	2026-09-21

Product Overview

Primary switching power supplies, TRIO POWER, Push-in connection, Rail mounting, input: 3 phase, output: 24 V DC / 20 A, adjustable from 24 V DC ... 28 V DC

Primary Switching Power Supplies, TRIO POWER, Push-in Connection, Rail Mount, Input: 3-Phase, Output: 24 VDC / 20 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
--------------	-----------------

Additional Product Information

Technical dataInput dataAC Operation

Network Structure Star Network (TN, TT, IT (PE))

Nominal Input Voltage Range 3x 400V AC ... 500 V AC

Input Voltage Range 3x 400V AC ... 500 V AC -20% ... +10%

2x 400V AC ... 500 V AC ±10%

Typical Country Grid Voltage 3x 400V AC

3x 480V AC

Supply Voltage Voltage Type AC

Extra-current shut-off < 13 A (25 °C)

Inrush current integral (I_{2t}) < 0.33 A²s

Frequency range (f_N) 50 Hz ... 60 Hz ±10%

Network Failure Bridging Time Typ. 28 ms (3x 400 V AC)

Typ. 28 ms (3x 480 V AC)

Current absorption 3x 0.77 A (3x 400 V AC)
3x 0.63 A (3x 500 V AC)
2x 1.37 A (2x 400 V AC)
2x 1.13 A (2x 500 V AC)
Protection Circuit Protection against transients; Varistor
Power Factor (cos phi) 0.93 (3x 480 V AC)
Module Input Fuse 3.15 A internal (device protection)
Selecting the Right Fuse for Ingress Protection 3x 6 A ... 16 A (Characteristic B, C, D, K or comparable)
Ground Shunt Current (PE) < 3.5 mA
Output DataYield Typ. 94.53% (3x 400 V AC)
Typ. 94.58% (3x 480V AC)
Nominal Output Voltage 24 V DC
Output Voltage Adjustment Range (Uset) 24 V DC ... 28 V DC (> 24 V DC, limited by power constant)
Rated Output Current (IN) 20 A
Dynamic Boost (IDyn.Boost) max. 30 A (5 sec)
Short circuit resistant Yes
Constant emptying Yes
Derating 60 °C ... 70 °C
Crest Factor Typ. 1.51 (3x 400 V AC)
Typ. 1.69 (3x 480 V AC)
Output Power (PN) 480 W
Output Power (PDyn. Boost) max. 720 W (5 sec)
Parallel connection possible Yes, to increase power and redundancy with diode
Possibility of series c...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / TRIO3-PS/3AC/24DC/20 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.