

QUINT-PS-3X400-500AC/24DC/30

Order No.: 2938633



DIN rail power supply unit 24 V DC/30 A, primary switched-mode, 3-phase

Commercial data	
EAN	4017918910983
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	3.9028 KG
Catalog page information	Page 411 (IF-2002)

Product notes

WEEE/RoHS-compliant since: 06/29/2006



Technical data

Input data

Nominal input voltage	3 x 400 V AC ... 500 V AC
AC input voltage range	3 x 320 V AC ... 575 V AC (for all three phases)
DC input voltage range	450 V DC ... 800 V DC
AC frequency range	45 Hz ... 65 Hz
DC frequency range	0 Hz

Current consumption	Approx. 3x 2.1 A (400 V AC)
	3x 1.7 A (480 V AC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (at 3 x 400 V AC)
	> 20 ms (at 3 x 480 V AC)
Input fuse	Externally via 3 circuit breakers 6 A, 10 A or 16 A, characteristic B

Output data

Nominal output voltage	24 V DC \pm 1%
Setting range of the output voltage	22.5 V ... 28.5 V
Output current	30 A (up to 60°C)
	35 A (with POWER BOOST)
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Residual ripple	< 100 mVPP
Peak switching voltages nominal load	< 100 mVPP (20 MHz)
Maximum power dissipation idling	14 W
Power loss nominal load max.	62 W

General data

Width	240 mm
Height	130 mm
Depth	130 mm
Weight	3.3 kg
Operating voltage display	LED green
Efficiency	> 92 %
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)
Degree of protection	IP20
Class of protection	I, with PE connection
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
Ambient temperature (operation)	-25 °C ... 70 °C (> 60°C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25°C, no condensation)
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	Can be aligned: vertical with spacing = 5 cm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC

Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2
Standard - Electrical safety	EN 60950/VDE 0805 (SELV)
	EN 61558-2-17
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010

Connection data, input

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm
Screw thread	M3

Connection data, output

Type of connection	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm

Signaling

Output name	Active
Output description	$U_{OUT} > 0.9 \times U_N$: High signal
Output voltage	+ 24 V DC (signal)
Continuous load current	Max. 40 mA
Status display	LED green ($U_{out} < 0.9 \times U_N$: LED flashes)
Output name	Floating
Output description	Relay contact, $U_{OUT} > 0.9 \times U_N$: Contact closed
Maximum switching voltage	Max. 30 V AC/DC

Continuous load current	Max. 1 A
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Certificates / Approvals



Certification ABS, CB, CUL, CUL Listed, DNV, GL, GOST, UL, UL Listed

Certification Ex: CUL-EX LIS, UL-EX LIS

Accessories

Item	Designation	Description
General		
2938235	UWA 182/52	Universal wall adapter

Drawings

Block diagram

