

## Power supply unit - QUINT-PS-3X400-500AC/24DC/30 - 2938633

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



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	3859.8 GRM
Custom tariff number	85044030
Country of origin	Germany

### Technical data

#### Dimensions

Width	240 mm
Height	130 mm
Depth	130 mm
Width with alternative assembly	122 mm
Height with alternative assembly	243 mm
Depth with alternative assembly	243 mm

#### Ambient conditions

Degree of protection	IP20
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, non-condensing)
Noise immunity	EN 61000-6-2:2005

#### Input data

Nominal input voltage range	3x 400 V AC ... 500 V AC
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## Technical data

### Input data

Input voltage range	3x 320 V AC ... 575 V AC (for all three phases)
	450 V DC ... 800 V DC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	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 mV <sub>PP</sub>
Peak switching voltages nominal load	< 100 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation NO-Load	< 14 W
Power loss nominal load max.	< 62 W

### General

Net weight	3.3 kg
Operating voltage display	Green LED
Efficiency	> 92 %
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)
Protection class	I (with PE connection)
MTBF (IEC 61709, SN 29500)	> 500000 h
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/EC
Noise emission	EN 50081-2
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010

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## Technical data

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm
Screw thread	M3

### Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	10 mm <sup>2</sup>
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	Green LED ( $U_{out} < 0.9 \times U_N$ : LED flashes)
Output name	floating
Output description	Relay contact, $U_{OUT} > 0.9 \times U_N$ : Contact closed
Maximum switching voltage	$\leq 30$ V AC/DC
Maximum inrush current	$\leq 1$ A
Continuous load current	$\leq 1$ A

### Classifications

#### eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27049002

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## Classifications

### eCl@ss

eCl@ss 5.1	27049002
eCl@ss 6.0	27049002
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002

### ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540

### UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

## Approvals

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#### Approvals

UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / GL / DNV / IECCEB Scheme / SEMI F47 / cUL Listed / cULus Recognized / cULus Listed / cULus Listed / null / null / null / null

#### Ex Approvals

UL Listed / cUL Listed / cUL Listed / cULus Listed / cULus Listed

#### Approvals submitted


### Approval details

UL Recognized
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## Approvals

UL Listed 


cUL Recognized 

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## Approvals

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## Accessories

### Accessories

#### Assembly adapter

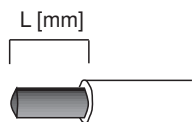
Assembly adapters - UWA 182/52 - 2938235



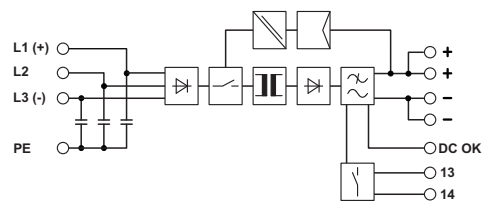
Universal wall adapter

## Drawings

### Dimensioned drawing

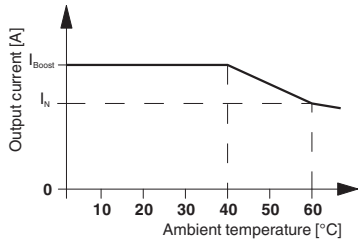


### Block diagram

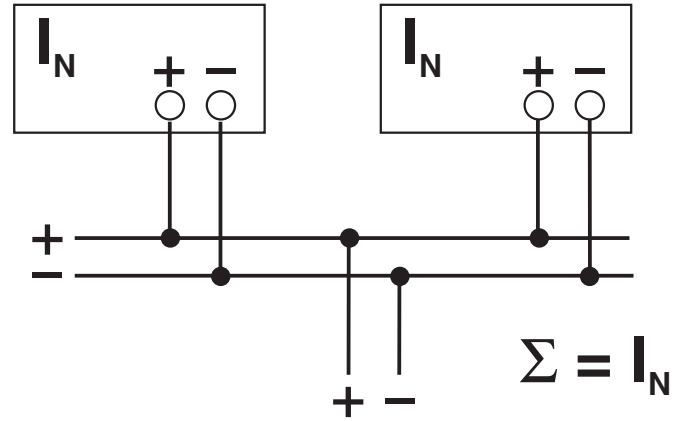


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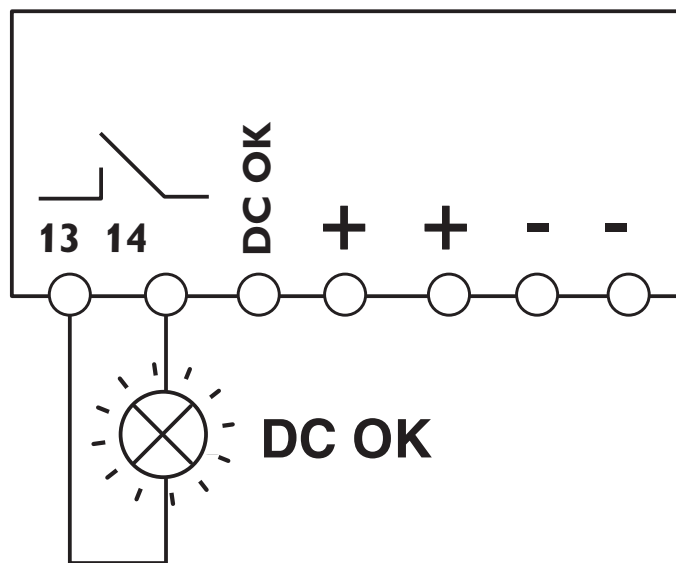
Diagram



Circuit diagram



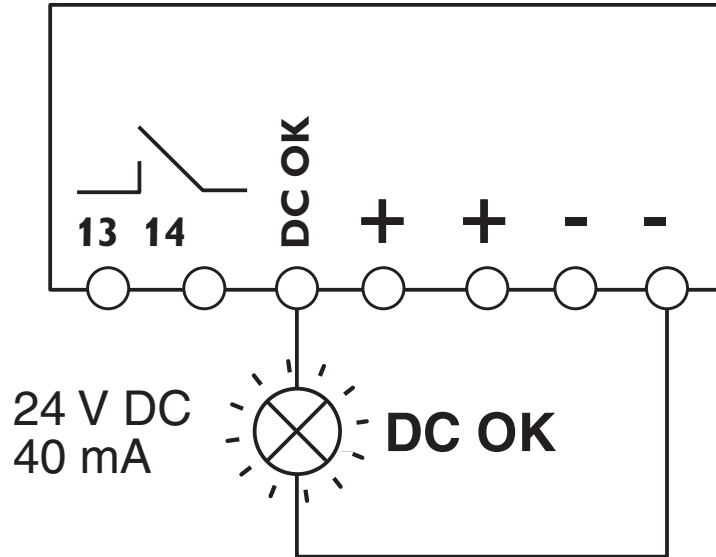
Circuit diagram



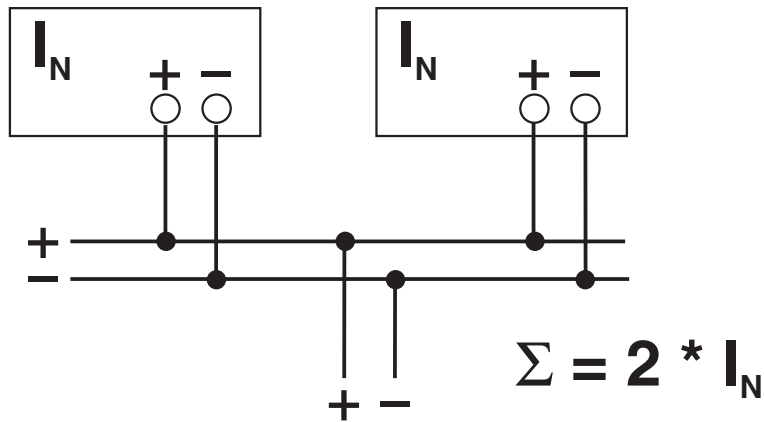
max.  
30 VAC/DC, 1A

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Circuit diagram



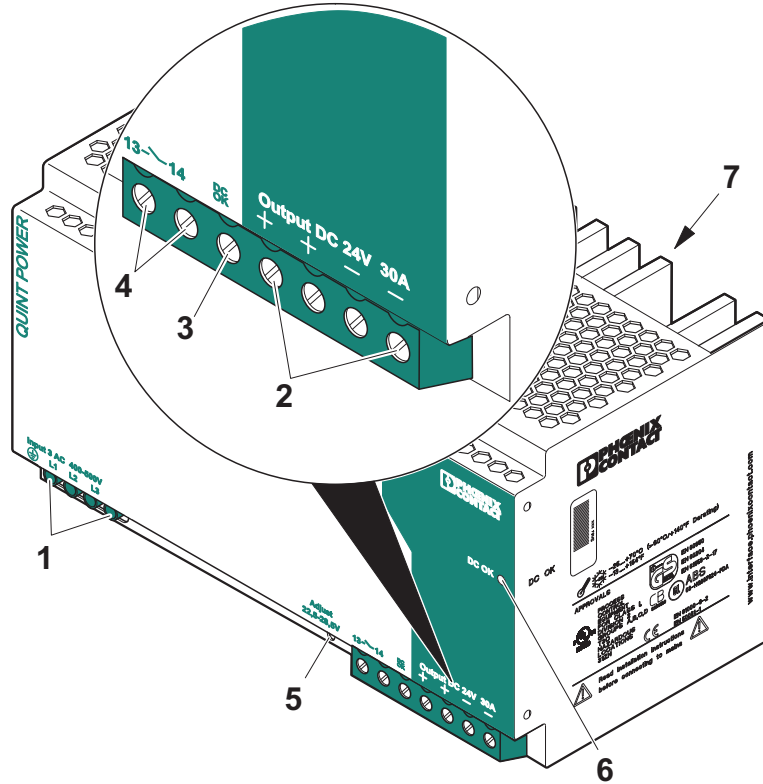
Circuit diagram





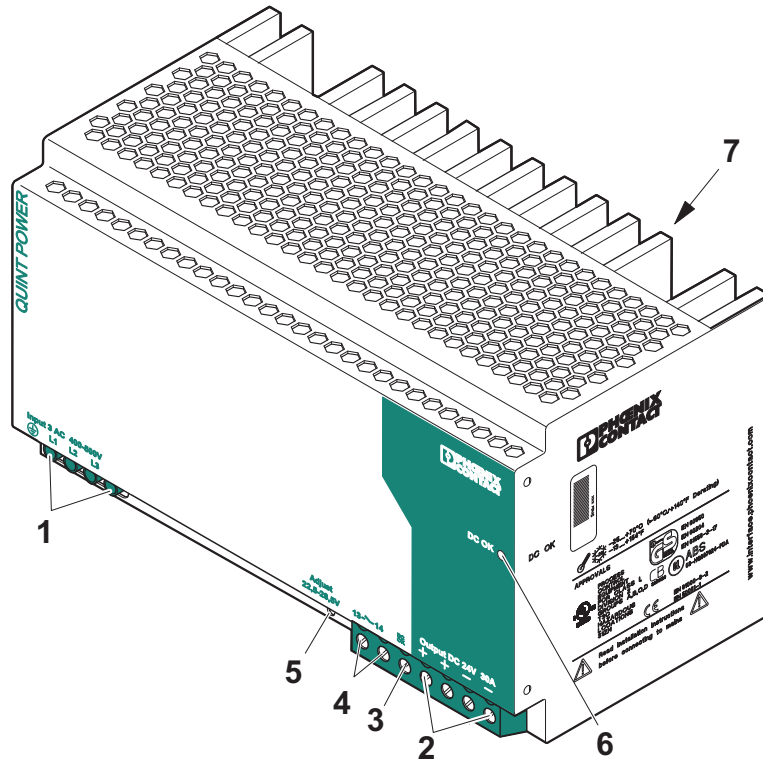
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Product drawing

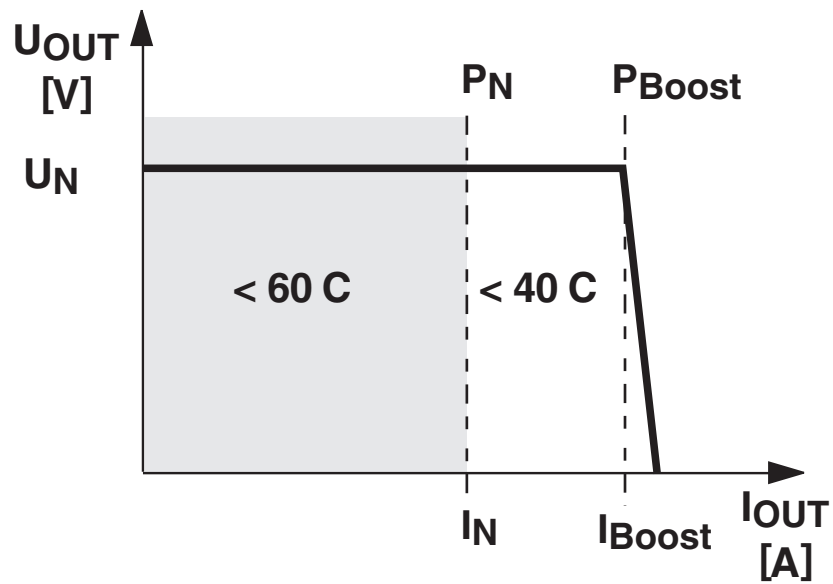


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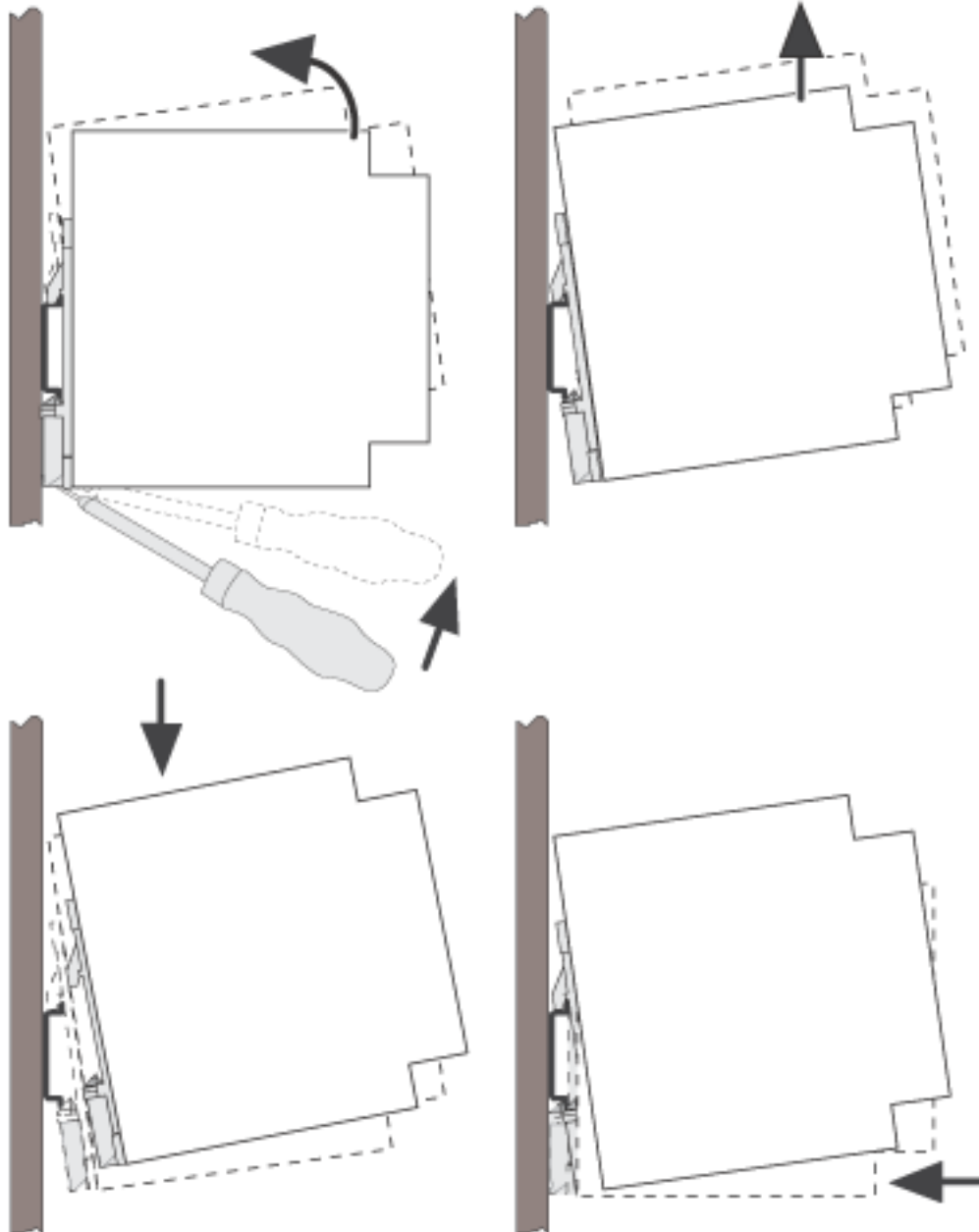


Diagram



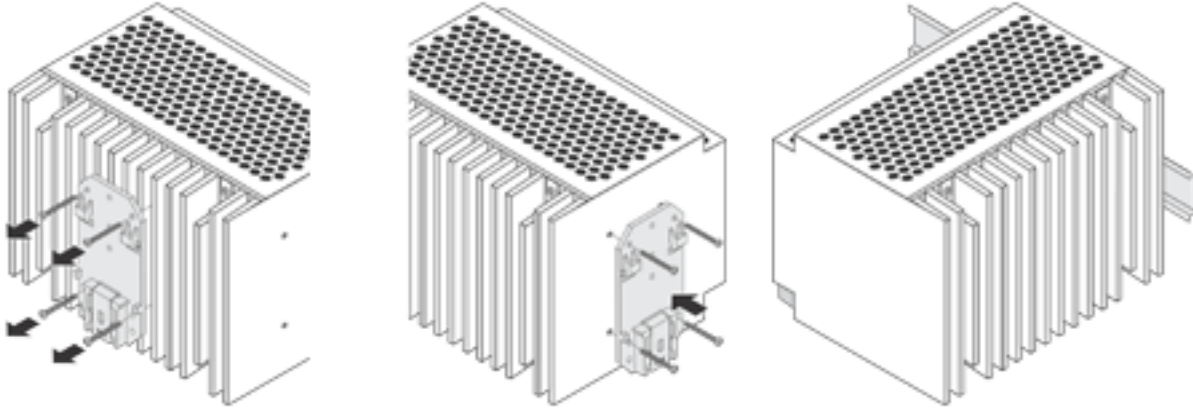
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Schematic diagram

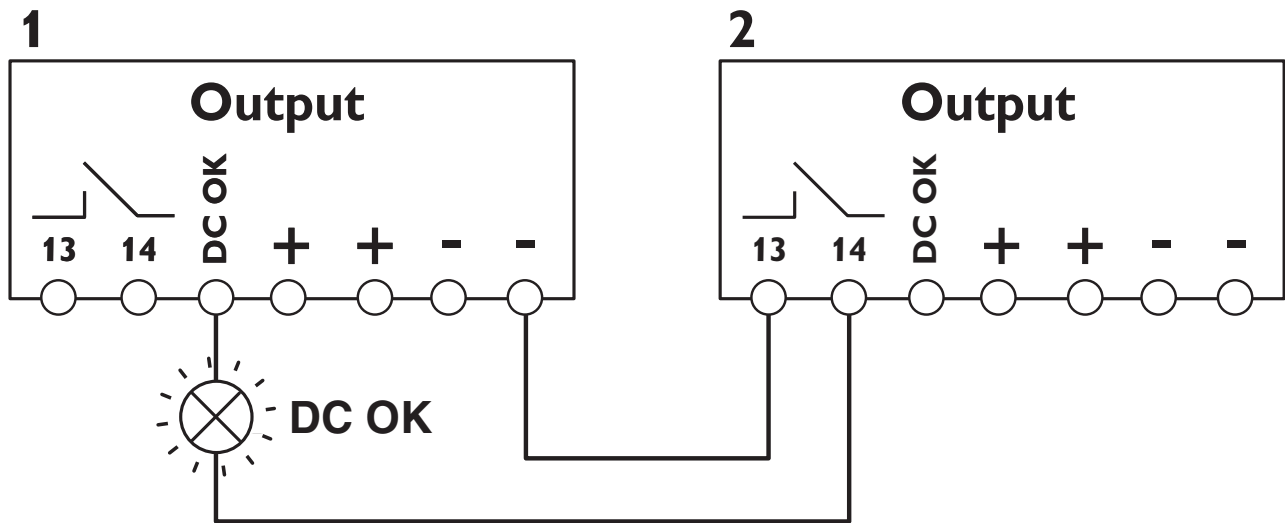


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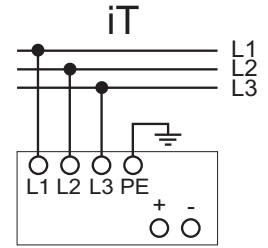
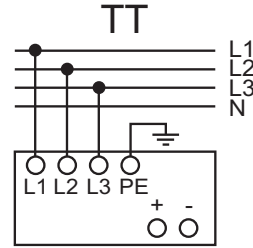
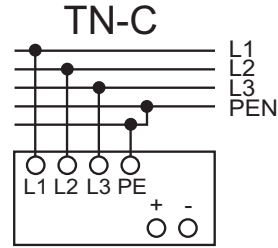
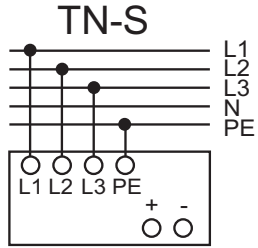


Circuit diagram



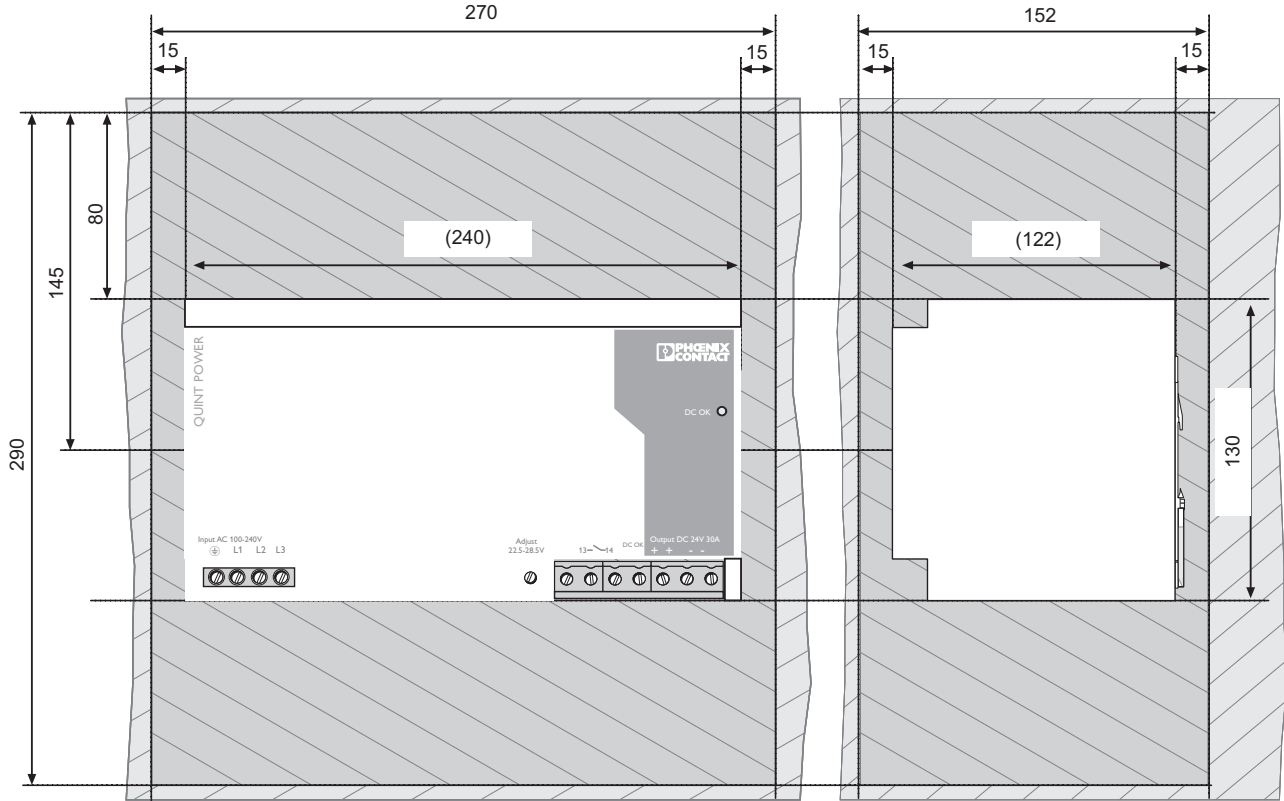
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Connection diagram



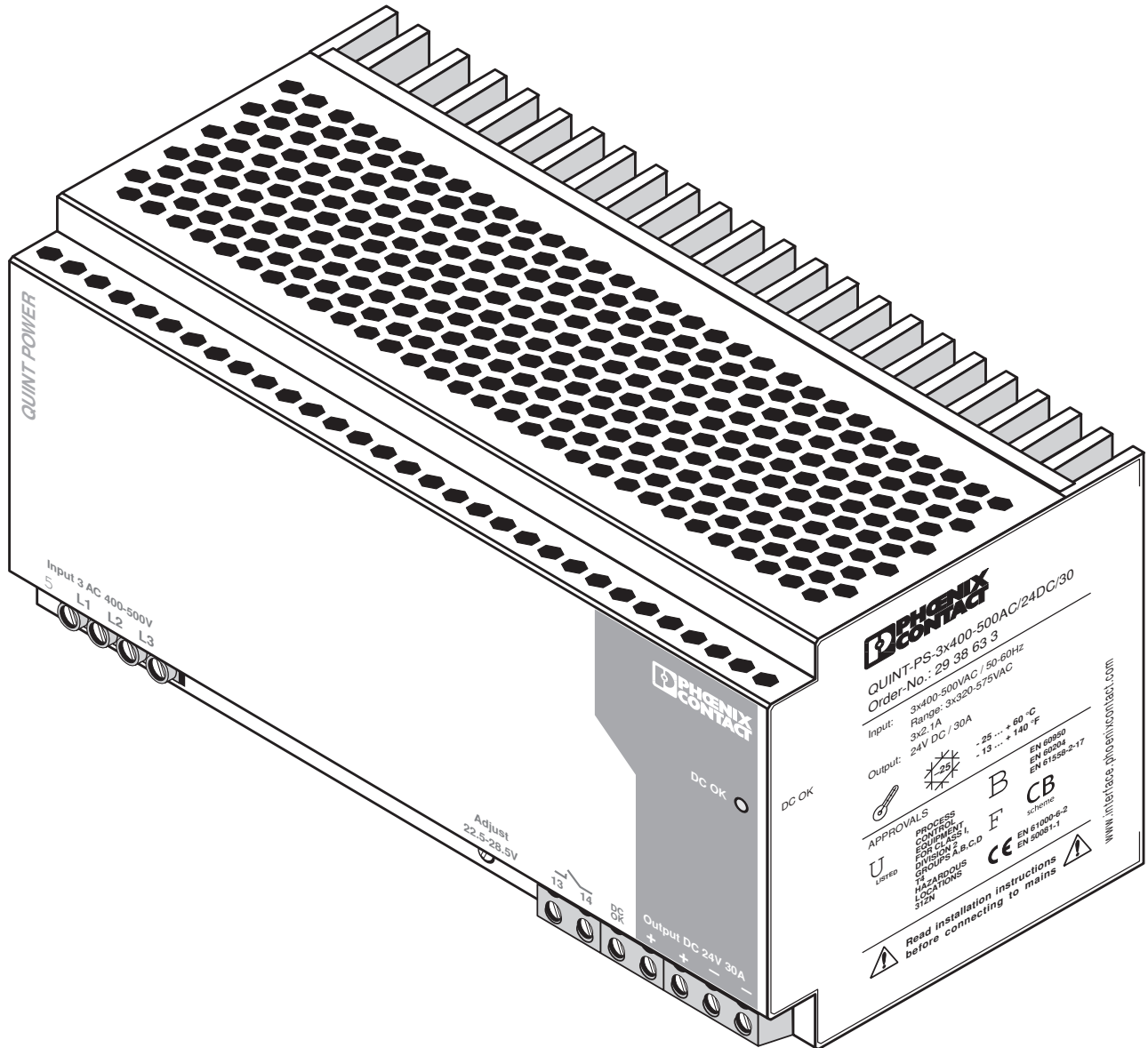
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Dimensioned drawing



# Power supply unit - QUINT-PS-3X400-500AC/24DC/30 - 2938633

Product drawing



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Schematic diagram

