

# TRIO-PS67/1AC/24DC/10/M12 - Power supply



1111634

<https://www.phoenixcontact.com/us/products/1111634>

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Primary-switched power supply unit TRIO POWER IP67, M12 circular connector, Panel mounting, input: 1-phase, output: 24 V DC / 10 A



## Product description

TRIO POWER 10 A power supplies with IP67 degree of protection have a floating switch contact and offer expanded diagnostic options. Safe starting of heavy loads is made possible through the dynamic boost of 150% for 5 s.

## Your advantages

- The AC OK LED and DC OK LED provide a direct diagnostic option
- Reliable start-up even with heavy loads through the dynamic boost of up to 150% for 5 s
- Quick installation and easy integration thanks to M12 connection
- Direct installation at the load in the field reduces cable lengths and saves space in the control cabinet
- Reliable use with high shock resistance, vibration resistance, and electric strength
- Robust die-cast aluminum housing with IP67 degree of protection ensures reliable protection against dust and water

## Commercial data

Item number	1111634
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM08
Product key	CMPF13
GTIN	4063151031824
Weight per piece (including packing)	1,613 g
Weight per piece (excluding packing)	1,252 g
Customs tariff number	85044095
Country of origin	CN

## 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 $\pm 10\%$
Switch-on voltage	> 75 V AC
Shut-down voltage	< 70 V AC
Electric strength, max.	$\leq 300$ V AC 15 s
Typical national grid voltage	120 V AC
	230 V AC
Voltage type of supply voltage	AC
Inrush current	$\leq 25$ A (typical)
Inrush current integral ( $I^2t$ )	< 0.5 A <sup>2</sup> s
Inrush current limitation	typ. 25 A (after 1 ms)
AC frequency range	50 Hz ... 60 Hz $\pm 10\%$
Frequency range ( $f_N$ )	50 Hz ... 60 Hz $\pm 10\%$
Mains buffering time	> 15 ms (120 V AC)
	> 15 ms (230 V AC)
Current consumption	2.8 A (100 V AC)
	1.2 A (240 V AC)
Nominal power consumption	285 VA
Protective circuit	Transient surge protection; Varistor
Power factor (cos phi)	> 0.93
Switch-on time	< 1 s
Input fuse	6.3 A (internal (device protection))
Recommended breaker for input protection	6 A ... 16 A (US/CAN: branch circuit protection $\leq \downarrow$ A) (Characteristic B, C, D, K or comparable)
Discharge current to PE	< 3.5 mA

#### DC operation

Nominal input voltage range	110 V DC ... 250 V DC
Input voltage range	110 V DC ... 250 V DC $\pm 10\%$
Switch-on voltage	$\geq 95$ V DC
Shut-down voltage	< 95 V DC
Voltage type of supply voltage	DC
Mains buffering time	> 15 ms
Current consumption	2.4 A (110 V DC)
	1.1 A (250 V DC)
Power factor (cos phi)	> 93

### Output data

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Efficiency	typ. 91 % (120 V AC)
	typ. 92 % (230 V AC)
Nominal output voltage	24 V DC $\pm$ 1 % (SELV)
Nominal output current ( $I_N$ )	10 A
Dynamic Boost ( $I_{Dyn.Boost}$ )	15 A (5 s)
Derating	> 60 °C ... 70 °C (2.5 %/K)
Feedback voltage resistance	$\leq$ 35 V DC
Protection against overvoltage at the output (OVP)	$\leq$ 30 V DC
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 3 % (Dynamic load change 10 % ... 90 %, 10 Hz)
	< 0.1 % (change in input voltage $\pm$ 10 %)
Residual ripple	$\leq$ 10 mV <sub>PP</sub>
Short-circuit-proof	yes
No-load proof	yes
Output power	240 W
	360 W
Maximum no-load power dissipation	< 10 W (120 V AC)
	< 6 W (230 V AC)
Power loss nominal load max.	< 22 W (120 V AC)
	< 17 W (230 V AC)
Rise time	$\leq$ 12 ms ( $U_{OUT}$ (10 % ... 90 %))
Connection in parallel	yes, for redundancy and increased capacity
Connection in series	yes
Fuse protection (secondary side)	electronic

Signal: DC OK

Maximum switching voltage	30 V AC/DC
Continuous load current	100 mA

Signal relay 13/14

Default	closed
Digital	30 V AC 30 V DC 100 mA

## Connection data

Input

Connection method	M12 circular connector
Coding	S
Type of locking	M12 screw locking
Number of positions	3

Output

Connection method	M12 circular connector
Coding	L
Type of locking	M12 screw locking
Number of positions	4

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## Signal

Connection method	M12 circular connector
Coding	A
Type of locking	M12
Number of positions	5

## Signaling

Types of signaling	LED Floating signal contact
Status display	2 x LED (green)

### Signal output: LED status indicator

Signalization designation	AC OK
Status display	LED
Color	green
AC OK	$AC_{in} > 0.55 \times AC_N$ ( $AC_N = 90 \text{ V AC}$ )

### Signal output: LED status indicator

Signalization designation	DC OK
Status display	LED
Color	green
DC OK	$U_{OUT} > 0.9 \times U_N$ ( $U_N = 24 \text{ V DC}$ )
13/14	$U_{OUT} > 0.9 \times U_N$ ( $U_N = 24 \text{ V DC}$ )

## Electrical properties

Number of phases	1
Insulation voltage input/output	3 kV AC (type test) 1.5 kV AC (routine test)

## Product properties

Product type	Power supply
Product family	TRIO POWER IP67
MTBF (IEC 61709, SN 29500)	> 1200000 h (25 °C) > 700000 h (40 °C) > 300000 h (60 °C)

## Insulation characteristics

Protection class	I
Overvoltage category (EN 61010-1)	III ( $\leq 2000 \text{ m}$ ) II ( $\leq 4000 \text{ m}$ )
Pollution degree	2 (IEC 61010-1)

## Dimensions

### Item dimensions

Width	136 mm
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Height	240 mm
Depth	53 mm

## Drill hole

Diameter	5.6 mm
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## Installation dimensions

Installation distance right/left	10 mm / 10 mm
Installation distance top/bottom	0 mm / 100 mm

## Mounting

Mounting type	Panel mounting
With protective coating	no

## Material specifications

Flammability rating according to UL 94 (housing / terminal blocks)	V0
Housing material	Metal
Type of housing	Aluminum (AlMg3)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-25 °C ... 70 °C (Derating >60°C: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (start-up type tested)	-40 °C
Maximum altitude	≤ 4000 m (> 2000 m, Derating: 10 %/1000 m)
Climatic class	4K26 (EN 60721-3-4)
Max. permissible relative humidity (operation)	≤ 100 % (at 25 °C, non-condensing)
Permissible humidity (operation)	≤ 100 % (at 25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6) 15 Hz ... 150 Hz, 4g, 90 min.

## Standards and regulations

### Electrical safety

Standard designation	Electrical safety
Standards/specifications	IEC 61010-1

### Protective extra-low voltage

Standard designation	Protective extra-low voltage
Standards/specifications	IEC 61010-1 IEC 61010-2-201 (SELV)

### Safe isolation

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Standard designation	Safe isolation
Standards/specifications	IEC 61558-2-16

## Low-voltage power supplies, DC output

Standard designation	Low-voltage power supplies, DC output
Standards/specifications	EN 61204-3

## Safety requirements for electrical equipment for measurement, control, and laboratory use

Standard designation	Safety requirements for electrical equipment for measurement, control, and laboratory use
Standards/specifications	IEC 61010-1

## Limit values for harmonic currents

Standard designation	Limit values for harmonic currents
Standards/specifications	EN 61000-3-2

## Degrees of protection provided by enclosures (IP code)

Standard designation	Degrees of protection provided by enclosures (IP code)
Standards/specifications	EN/IEC 60529

## Approvals

### UL

Identification	UL/C-UL Listed UL 61010-1
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### UL

Identification	UL/C-UL Listed UL 61010-2-201
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Interference emission	Interference emission in accordance with EN 61000-6-3 (residential and commercial) and EN 61000-6-4 (industrial)
Noise immunity	Immunity in accordance with EN 61000-6-1 (residential), EN 61000-6-2 (industrial)

## Conducted noise emission

Standards/regulations	EN 55016
	EN 61000-6-3 (Class B)

## Noise emission

Standards/regulations	EN 55011 (EN 55022)
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## Noise emission

Standards/regulations	EN 55016
	EN 61000-6-3 (Class B)

## Harmonic currents

Standards/regulations	EN 61000-3-2
	EN 61000-3-2 (Class A)

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## Electrostatic discharge

Standards/regulations	EN 61000-4-2
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## Electrostatic discharge

Contact discharge	6 kV (Test Level 3)
Comments	Criterion A

## Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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## Electromagnetic HF field

Frequency range	80 MHz ... 1 GHz
Test field strength	10 V/m (Test Level 3)
Frequency range	1 GHz ... 2 GHz
Test field strength	10 V/m (Test Level 3)
Frequency range	2 GHz ... 6 GHz
Test field strength	10 V/m (Test Level 3)
Comments	Criterion A

## Fast transients (burst)

Standards/regulations	EN 61000-4-4
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## Fast transients (burst)

Input	4 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A

## Surge voltage load (surge)

Standards/regulations	EN 61000-4-5
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## Surge voltage load (surge)

Input	2 kV (Test Level 4 - symmetrical)
	4 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion A

## Conducted interference

Standards/regulations	EN 61000-4-6
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## Conducted interference

Input/Output	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)

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## Voltage dips

Standards/regulations	EN 61000-4-11
Voltage	230 V AC
Frequency	50 Hz
Voltage dip	70 %
Number of periods	25 periods
Comments	Criterion A
Voltage dip	40 %
Number of periods	10 periods
Comments	Criterion A
Voltage dip	0 %
Number of periods	1 period
Comments	Criterion A

## Emitted interference

Standards/regulations	EN 61000-6-3
Radio interference voltage in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential

## Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
Criterion C	Temporary adverse effects on the operating behavior, which the device corrects automatically or which can be restored by actuating the operating elements.

# TRIO-PS67/1AC/24DC/10/M12 - Power supply

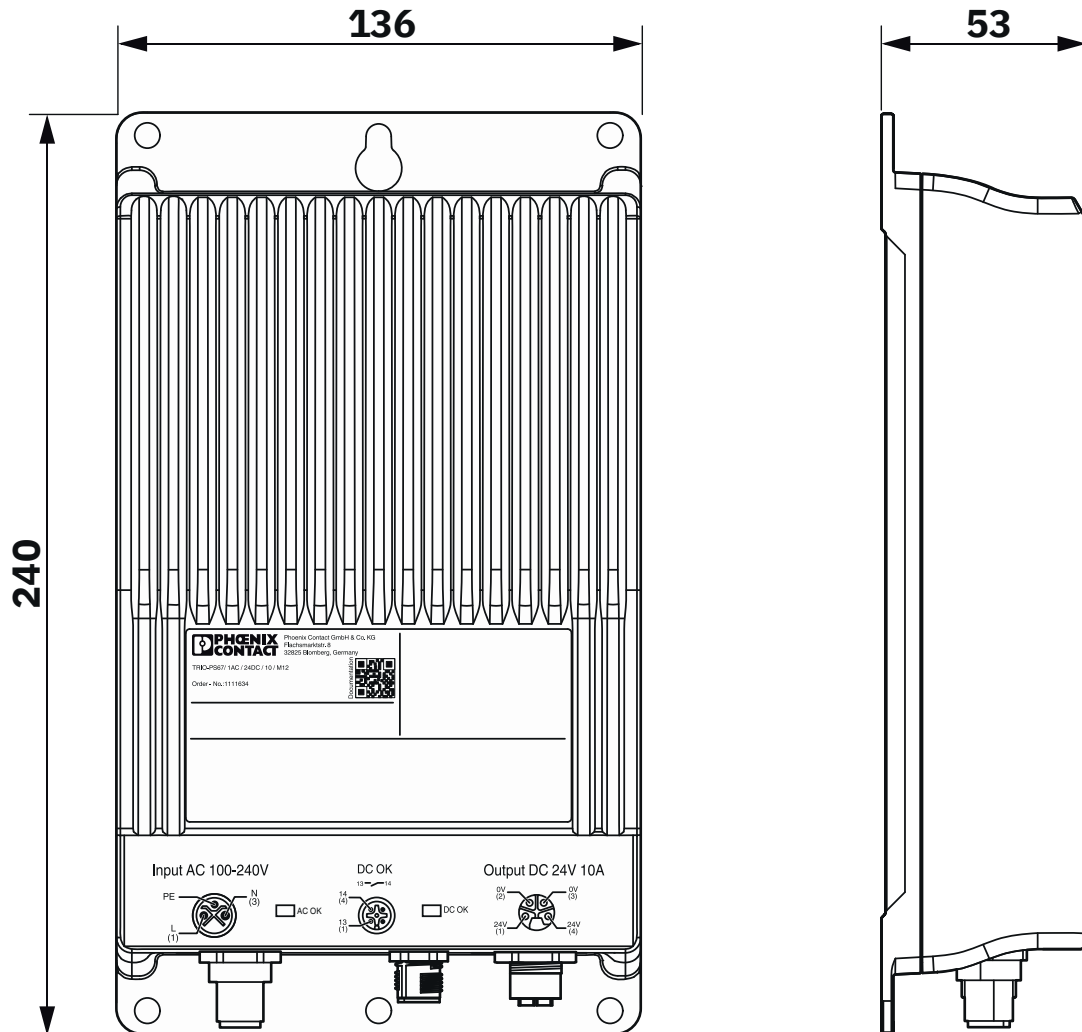


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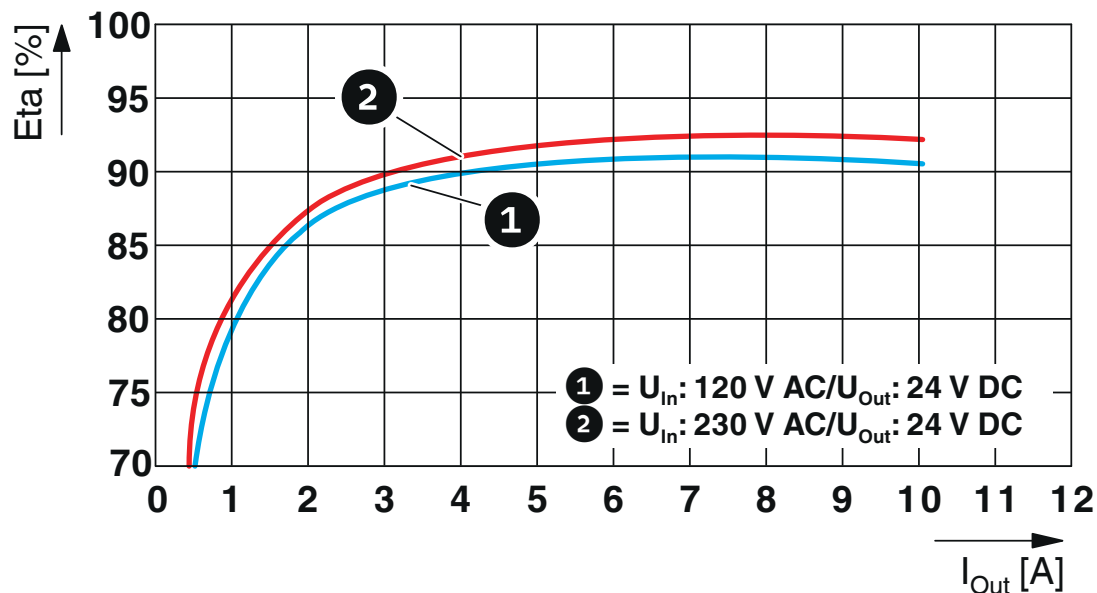
## Drawings

Dimensional drawing



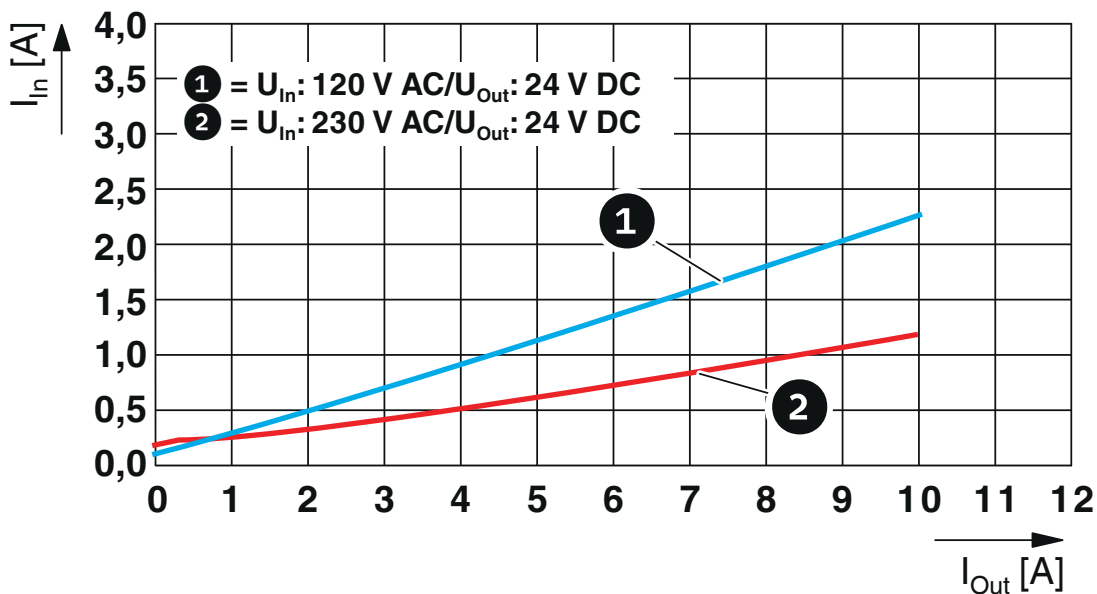
Device dimensions (dimensions in mm)

Diagram

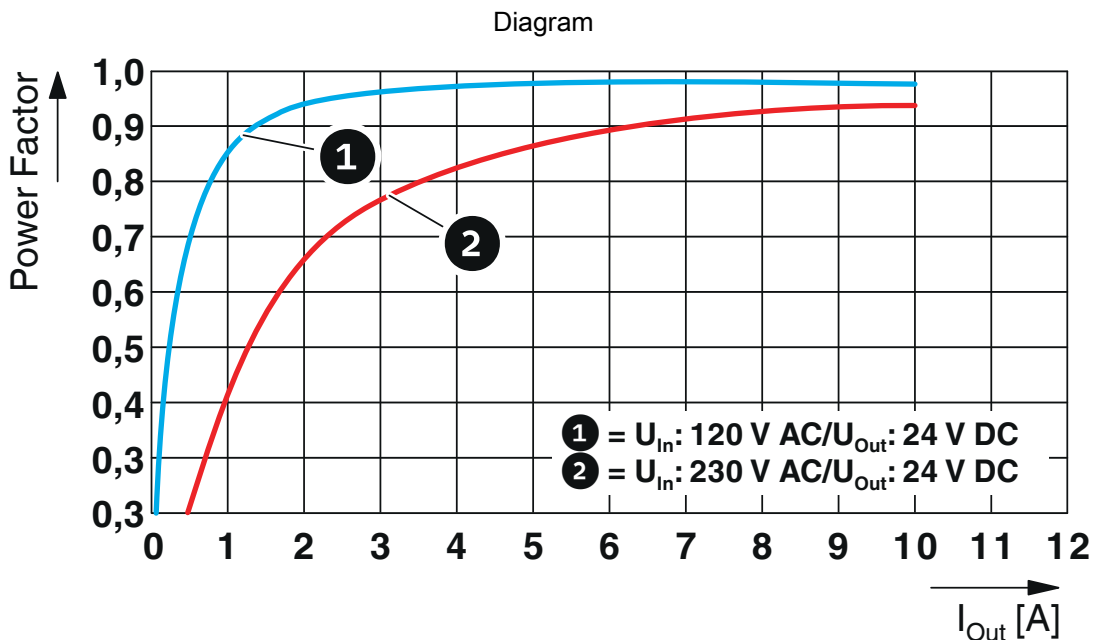


Efficiency

Diagram



Input current/output current



Power factor



Output current/installation altitude

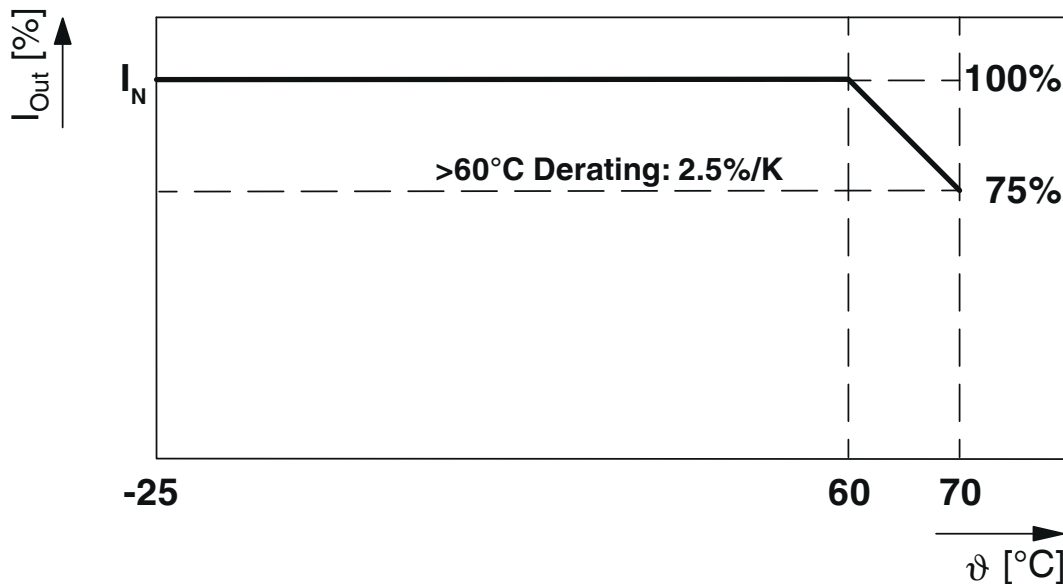
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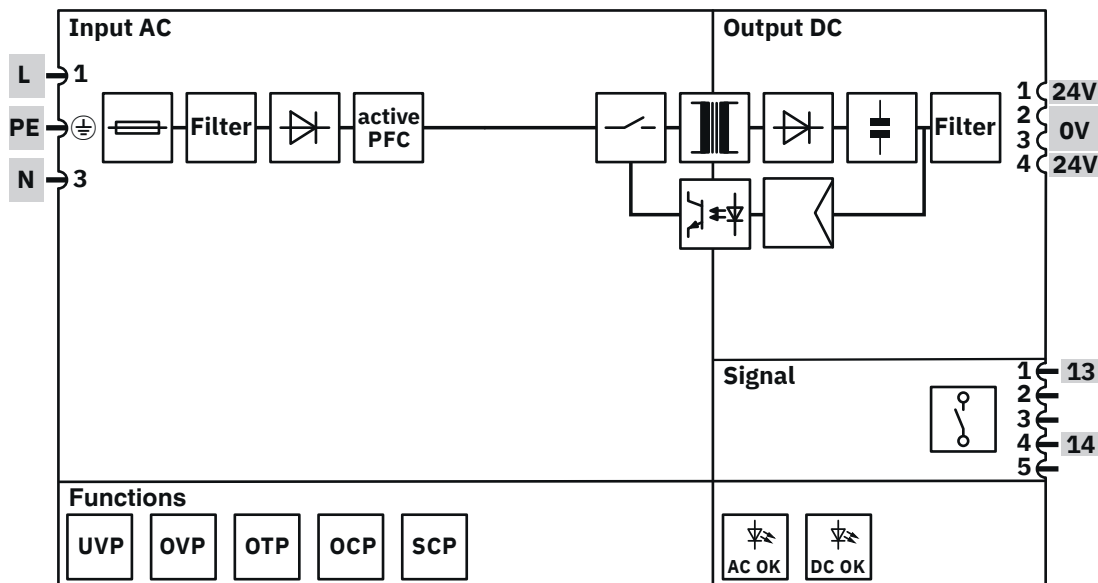
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Diagram



Output current/ambient temperature

Block diagram



Block diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1111634>



**IECEE CB Scheme**

Approval ID: DK-135371-A1-UL



**cULus Listed**

Approval ID: FILE E 123528



**EAC**

Approval ID: RU S-DE.BL08.W.00764



**IECEE CB Scheme**

Approval ID: DK-135371-A1-UL



**EAC**

Approval ID: RU S-DE.BL08.W.00764



**cULus Listed**

Approval ID: FILE E 123528

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## Classifications

### ECLASS

ECLASS-13.0	27040701
ECLASS-15.0	27040701

### ETIM

ETIM 10.0	EC002540
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	ef887251-5e49-42fc-b03f-616a36ecb14e

### EF3.1 Climate Change

CO2e kg	42.35 kg CO2e
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