

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Primary-switched TRIO POWER power supply in IP67 die-cast housing, M12 circular connector, input: 1-phase, 5-pos. output: 24 V DC/10 A, static boost: up to 12.5 A (continuous)



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. A static boost of 125% is also available.

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	1395808
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM08
Product key	CMPF13
GTIN	4063151779092
Weight per piece (including packing)	1,703 g
Weight per piece (excluding packing)	6 g
Customs tariff number	85044095
Country of origin	CN

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

Technical data

Input data

AC operation

Supply system configuration	Star network (TN, TT, IT (PE))
Nominal input voltage range	120 V AC ... 240 V AC
Input voltage range	120 V AC ... 240 V AC $\pm 10\%$
Switch-on voltage	> 85 V AC
Shut-down voltage	< 85 V AC
Electric strength, max.	≤ 300 V AC 15 s
Typical national grid voltage	120 V AC
	230 V AC
Voltage type of supply voltage	AC
Inrush current	≤ 25 A (typical)
Inrush current integral (I^2t)	< 0.5 A ² 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	> 17 ms (120 V AC)
	> 17 ms (230 V AC)
Current consumption	2.3 A (120 V AC)
	1.2 A (240 V AC)
Nominal power consumption	285 VA
Protective circuit	Transient surge protection; Varistor
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 $\leq \text{I}^2\text{t}$ A) (Characteristic B, C, D, K or comparable)
Discharge current to PE	< 3.5 mA

DC operation

Nominal input voltage range	132 V DC ... 250 V DC
Switch-on voltage	≥ 95 V DC
Shut-down voltage	< 95 V DC
Voltage type of supply voltage	DC
Mains buffering time	> 17 ms
Current consumption	2.1 A (132 V DC)
	1.1 A (250 V DC)
Power factor (cos phi)	> 93

Output data

Efficiency	typ. 91 % (120 V AC)
	typ. 92 % (230 V AC)

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

Nominal output voltage	24 V DC $\pm 1\%$ (PELV)
Nominal output current (I_N)	10 A
Static Boost ($I_{Stat.Boost}$)	12.5 A ($U_N \geq \sqrt{2} \cdot V_{AC} / 220 \text{ V DC}$)
Derating static boost	> 40 °C ... 50 °C 1 %/K > 50 ... 60 °C 0.22 %/K ($U_N \geq \sqrt{2} \cdot V_{AC} / 220 \text{ V DC}$, $P_{Stat.Boost} = P_N \times 1,25$)
Dynamic Boost ($I_{Dyn.Boost}$)	15 A (5 s)
Derating	> 40 °C ... 50 °C (1 % / K)
Feedback voltage resistance	$\leq 35 \text{ V DC}$
Protection against overvoltage at the output (OVP)	$\leq 30 \text{ V DC}$
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	$\leq 10 \text{ mV}_{PP}$
Short-circuit-proof	yes
Output power	240 W
	300 W
	360 W (5 s)
Maximum no-load power dissipation	< 2 W (120 V AC)
	< 2 W (230 V AC)
Power loss nominal load max.	< 25 W (120 V AC)
	< 21 W (230 V AC)
Rise time	$\leq 12 \text{ ms}$ (U_{OUT} (10 % ... 90 %))
Connection in parallel	yes, for redundancy and increased capacity
Connection in series	yes
Fuse protection (secondary side)	electronic

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	5

Signal

Connection method	M12 circular connector
-------------------	------------------------

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

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	$AC_{In} > 0.45 \times AC_N$ ($AC_N = 108 \text{ V AC}$)

Signal output: LED status indicator

Signalization designation	DC OK
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)	> 850000 h (25 °C) > 460000 h (40 °C) > 190000 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	3

Dimensions

Item dimensions

Width	136 mm
Height	240 mm
Depth	53 mm

Drill hole

Diameter	5.6 mm
----------	--------

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

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 ... 60 °C
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 (PELV)

Safe isolation

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

Low-voltage power supplies, DC output

Standard designation	Low-voltage power supplies, DC output
----------------------	---------------------------------------

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

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
----------------	---------------------------

UL

Identification	UL/C-UL Listed UL 61010-2-201
----------------	-------------------------------

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)
-----------------------	---------------------

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)

Electrostatic discharge

Standards/regulations	EN 61000-4-2
-----------------------	--------------

Electrostatic discharge

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

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

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
-----------------------	--------------

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
-----------------------	--------------

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
-----------------------	--------------

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
-----------------------	--------------

Conducted interference

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

Voltage dips

Standards/regulations	EN 61000-4-11
Voltage	230 V AC
Frequency	50 Hz

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

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/M12/5P - Power supply

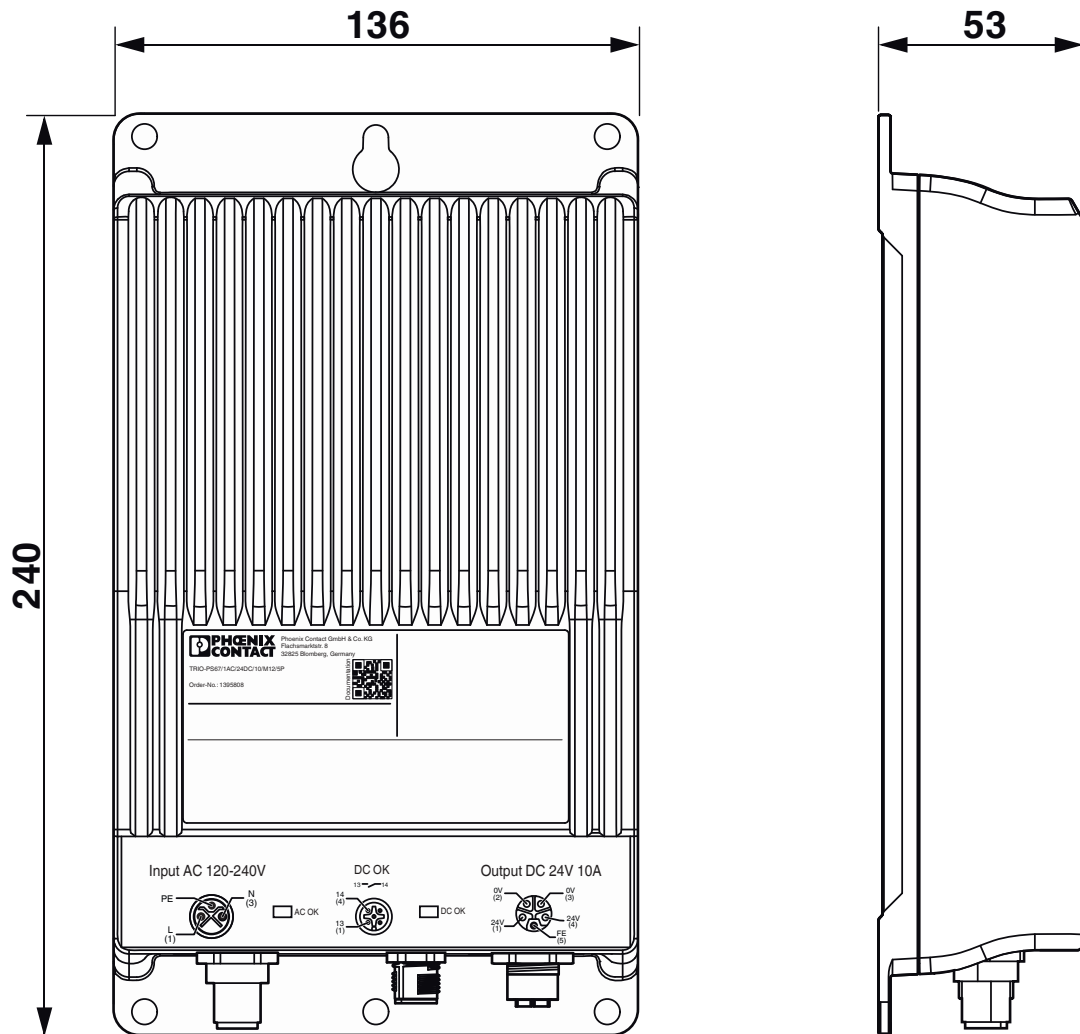


1395808

<https://www.phoenixcontact.com/us/products/1395808>

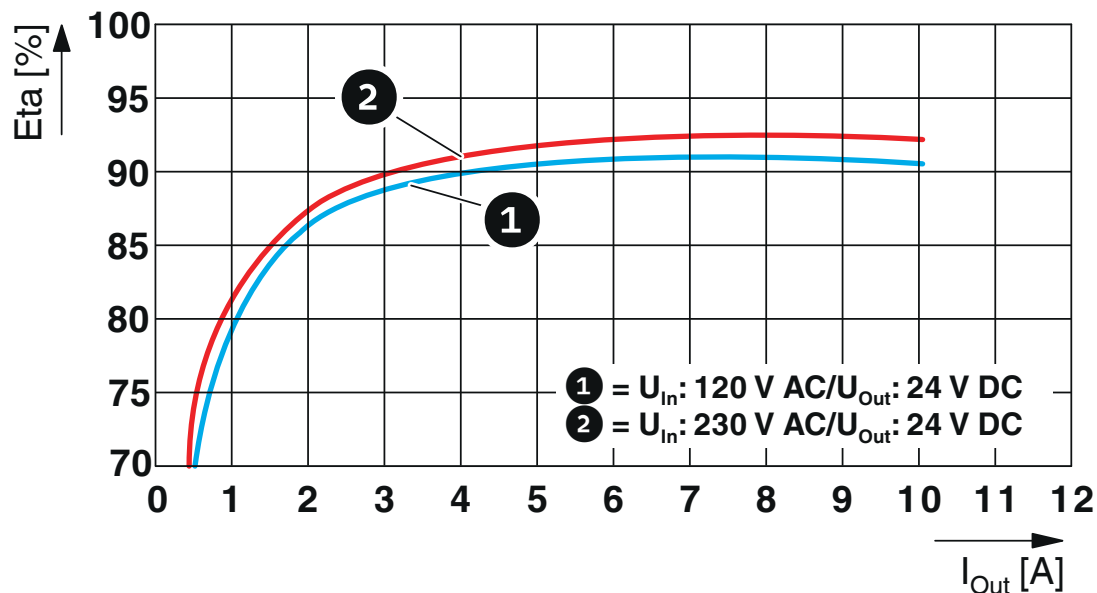
Drawings

Dimensional drawing



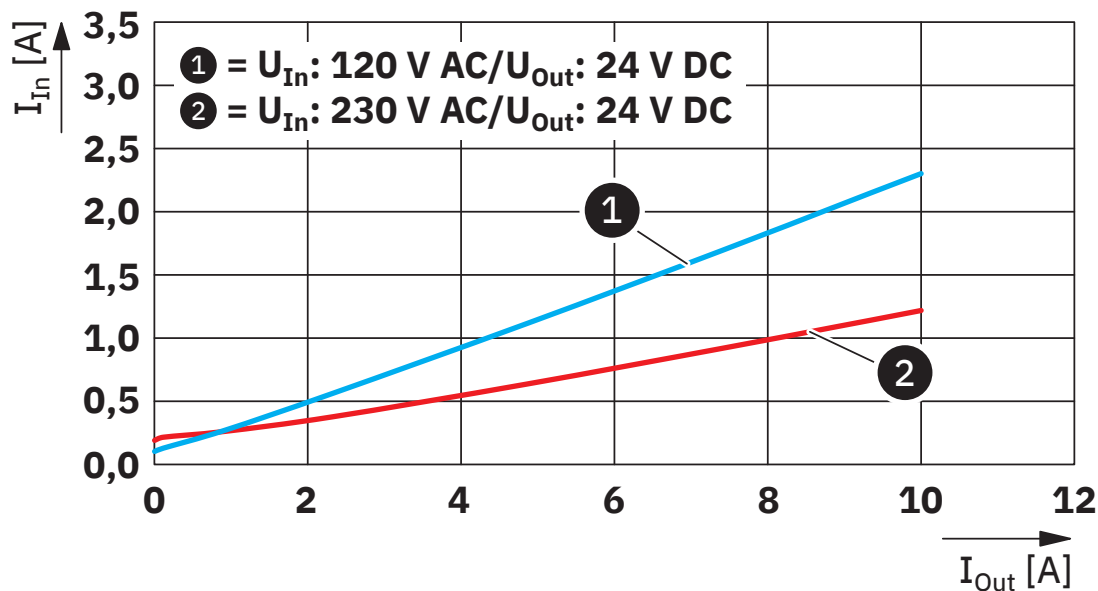
Device dimensions (dimensions in mm)

Diagram

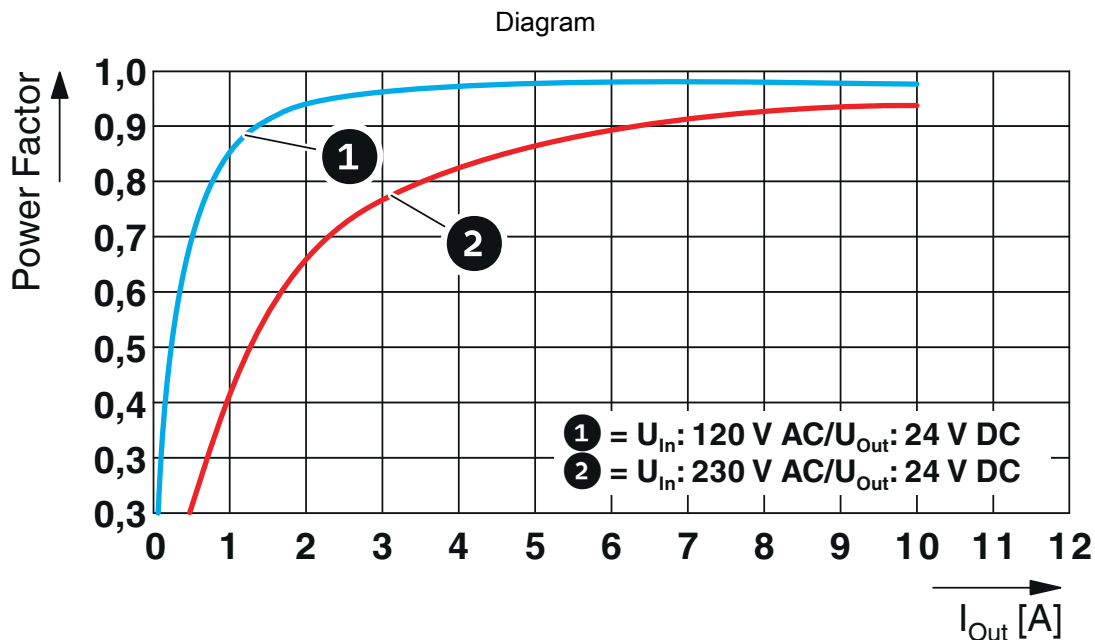


Efficiency

Diagram



Input current/output current



Power factor



Output current/installation altitude

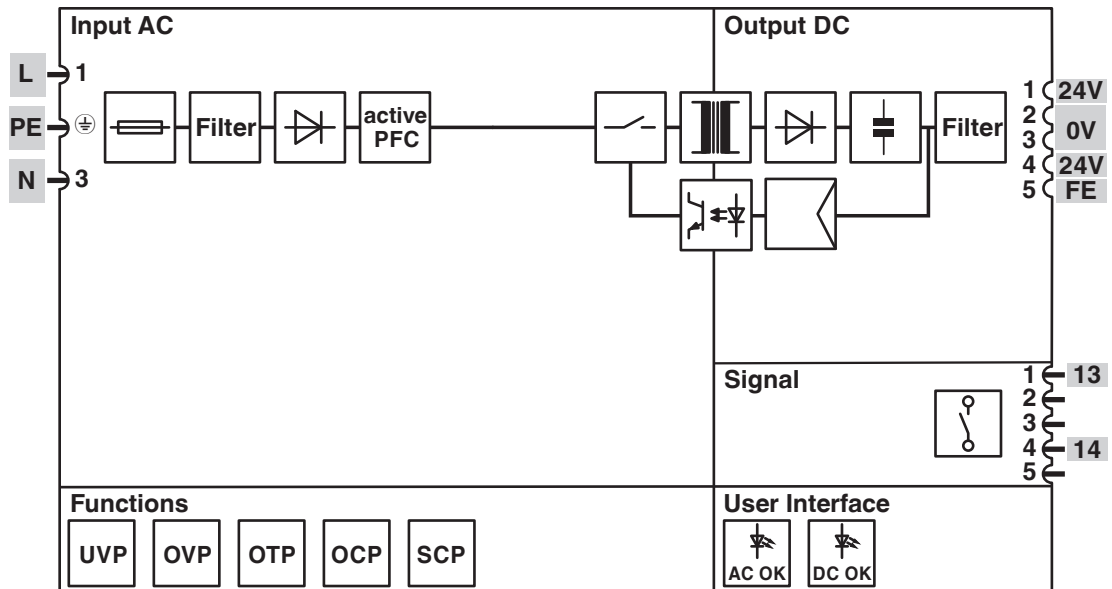
TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

Block diagram



Block diagram

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1395808>



cULus Listed

Approval ID: FILE E 123528



IECEE CB Scheme

Approval ID: DK-135371-A1-UL

TRIO-PS67/1AC/24DC/10/M12/5P - Power supply



1395808

<https://www.phoenixcontact.com/us/products/1395808>

Classifications

ECLASS

ECLASS-13.0	27040701
ECLASS-15.0	27040701

ETIM

ETIM 10.0	EC002540
-----------	----------

UNSPSC

UNSPSC 21.0	39121000
-------------	----------

1395808

<https://www.phoenixcontact.com/us/products/1395808>

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	a3c6400a-9af0-4bf9-b8d5-b4ffc91d55f6

EF3.1 Climate Change

CO2e kg	113.7 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA

586 Fulling Mill Road

Middletown, PA 17057, United States

(+717) 944-1300

info@phoenixcon.com