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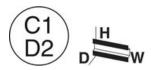
Primary-switched power supply unit, UNO POWER, Screw connection, Screw connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 10 A

Your advantages

 $\overline{\mathbf{v}}$

Outdoor installation possible, with a wide temperature range of -25°C... +70°C

Simple output voltage monitoring, thanks to the floating DC OK relay contact



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 930466
GTIN	4055626930466
Weight per Piece (excluding packing)	860.000 g
Custom tariff number	85044030
Country of origin	Thailand

Technical data

Dimensions

Width	45 mm
Height	130 mm
Depth	129 mm
	125 mm (Device depth (DIN rail mounting))
Installation distance right/left (active, passive)	0 mm / 0 mm (P _{Out} ≥50%)
Installation distance top/bottom (active, passive)	30 mm / 30 mm (P _{Out} ≥50%)

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C 70 °C (> 55 °C Derating: 2.5 %/K)
Ambient temperature (start-up type tested)	-40 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Maximum altitude	≤ 3000 m (> 2000 m, Derating: 10 %/1000 m)
Degree of pollution	2
Climatic class	3K3 (in acc. with EN 60721)

Input data

Nominal input voltage range	100 V AC 240 V AC
Input voltage range	100 V AC 240 V AC -15 % +10 %
Derating	< 90 V AC (1 %/V)
Frequency range (f _N)	50 Hz 60 Hz #10 %
Typical national grid voltage	120 V AC
	230 V AC
Voltage type of supply voltage	AC
Current consumption	2.6 A (100 V AC)
	2.2 A (120 V AC)
	1.13 A (230 V AC)
	1.2 A (240 V AC)
Discharge current to PE	< 3.5 mA
Mains buffering time	typ. 16 ms (120 V AC)
	typ. 20 ms (230 V AC)
Switch-on time	typ. 400 ms
Inrush current	typ. 10 A (at 25 °C)
Inrush current integral (I ² t)	$< 0.2 \text{ A}^2 \text{s}$
Type of protection	Transient surge protection
Protective circuit/component	Varistor, gas-filled surge arrester
Device mains fuse	5 A internal (device protection), fast-blow
Recommended breaker for input protection	6 A 16 A (Characteristic B, C, D, K or comparable)

Output data

Nominal output voltage	24 V DC
Setting range of the output voltage (U _{Set})	24 V DC 28 V DC (> 24 V DC, constant capacity restricted)
Nominal output current (I _N)	10 A
Control deviation	< 1 % (change in load, static 10 % 90 %)
	< 3 % (change in load, dynamic 10 % 90 %)
	< 0.1 % (change in input voltage ±10 %)

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Technical data

Output data

Short-circuit-proof	yes
No-load proof	yes
Residual ripple	typ. 50 mV _{PP} (with nominal values)
Connection in parallel	yes, for redundancy
Connection in series	yes, for increased output voltage
Feedback voltage resistance	≤ 35 V DC
Protection against overvoltage at the output (OVP)	≤ 35 V DC
Rise time	< 1 s (U _{Out} = 10 % 90 %)
Crest factor	typ. 1.65 (120 V AC)
	typ. 1,63 (230 V AC)
Minimum no-load power dissipation	< 4 W (120 V AC)
Maximum power dissipation in no-load condition	< 4 W (230 V AC)
Minimum nominal load power dissipation	< 25 W (120 V AC)
Power loss nominal load max.	< 19 W (230 V AC)

General

Net weight	0.75 kg
Environmental protection directive	RoHS Directive 2011/65/EU
	WEEE
	Reach
Efficiency	typ. 92 % (120 V AC)
	typ. 93.7 % (230 V AC)
MTBF (IEC 61709, SN 29500)	> 1219000 h (25 °C)
	> 678000 h (40 °C)
	> 366000 h (55 °C)
Insulation voltage input/output	4 kV AC (type test)
	3 kV AC (routine test)
Insulation voltage input / PE	3.5 kV AC (type test)
	2.4 kV AC (routine test)
Degree of protection	IP20
Protection class	
Housing material	Aluminum (AlMg3) / sheet steel, zinc-plated
Foot latch material	Sheet steel, zinc-plated
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: 0 mm horizontally, 30 mm vertically

Input connection data

Connection method	Screw connection

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Technical data

Input connection data

Stripping length	6.5 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.25 mm² 2.5 mm²
Conductor cross section AWG	24 14 (Cu)
Torque	0.5 Nm 0.6 Nm

Output connection data

Connection method	Screw connection
Stripping length	6.5 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.25 mm² 2.5 mm²
Conductor cross section AWG	24 14 (Cu)
Torque	0.5 Nm 0.6 Nm

Signal connection data

Connection method	Screw connection
Stripping length	6.5 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.25 mm² 2.5 mm²
Conductor cross section AWG	24 14 (Cu)
Torque	0.5 Nm 0.6 Nm

LED signaling

Types of signaling	LED DC OK – signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$)
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Signal contacts – signal output relay 13/14 (configurable)

	Maximum contact load	30 V AC/DC
ĺ		100 mA

Connection level	3.x
Connection labeling	3.1 (13), 3.2 (14)
Function	Operating state forwarding
Switch contact	OptoMOS
Switching voltage	max. 30 V AC/DC

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Technical data

Current carrying capacity	max. 50 mA
State condition	U _{OUT} > 0,9 x U _N (Contact closed)
	U _{OUT} < 0,9 x U _N (Contact open)

Standards

EMC requirements for noise immunity	EN 61000-6-2
Standard designation	Safety of power supply units up to 1100 V (insulation distances)
Standards/regulations	DIN EN 61558-2-16
Standard designation	Electrical safety
Standards/regulations	IEC 61010-2-201 (SELV)
Standard designation	Equipping high voltage installations with electronic equipment
Standards/regulations	EN 50178/VDE 0160 (PELV)
Standard designation	Safety for equipment for measurement, control, and laboratory use
Standards/regulations	IEC 61010-1
Standard designation	Protective extra-low voltage
Standards/regulations	IEC 61010-1 (SELV)
	IEC 61010-2-201 (PELV)
Standard designation	Safe isolation
Standards/regulations	IEC 61558-2-16
	IEC 61010-2-201
Standard designation	Limitation of harmonic line currents
Standards/regulations	EN 61000-3-2
Standard designation	Requirement of the semiconductor industry with regard to mains voltage dips
Standards/regulations	SEMI F47 - 0706 (185 V AC)
Overvoltage category EN 61010-1	II (≤ 3000 m)
Overvoltage category EN 62477-1	III (≤3000 m)

Conformance/approvals

Designation	UL
Identification	UL/C-UL Listed UL 61010-1
Designation	UL
Identification	UL/C-UL Listed UL 61010-2-201
Designation	UL
Identification	UL/C-UL Listed ANSI/UL 121201 Class I, Division 2, Groups A, B, C, D (Hazardous Location)
Designation	UL
Identification	CB scheme (IEC 61010-1, IEC 61010-2-201)

EMC data

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Technical data

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Conducted noise emission	EN 55016
	EN 61000-6-3 (Class B)
Noise emission	EN 55016
	EN 61000-6-3 (Class B)
Harmonic currents	EN 61000-3-2
	EN 61000-3-2 (Class A)
Electrostatic discharge	EN 61000-4-2
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Electromagnetic HF field	EN 61000-4-3
Frequency range	80 MHz 1 GHz
Test field strength	10 V/m (Test Level 3)
Frequency range	1 GHz 6 GHz
Test field strength	10 V/m (Test Level 3)
Comments	Criterion A
Fast transients (burst)	EN 61000-4-4
Input	4 kV (Test Level 4 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	EN 61000-4-5
Input	2 kV (Test Level 3 - symmetrical)
	4 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
Conducted interference	EN 61000-4-6
Frequency range	0.15 MHz 80 MHz
Voltage	10 V (Test Level 3)
Comments	Criterion A
Voltage dips	EN 61000-4-11
Voltage	230 V AC
Frequency	50 Hz
Voltage dip	70 %
Number of periods	25 / 30 periods
Comments	Criterion A

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Technical data

EMC data

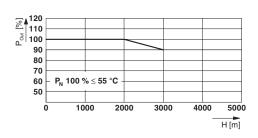
Voltage dip	40 %
Number of periods	12 periods
Additional text	Test Level 2
Comments	Criterion A
Voltage dip	0 %
Number of periods	1 period
Additional text	Test Level 2
Comments	Criterion B
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Environmental Product Compliance

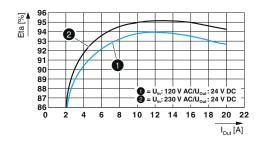
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

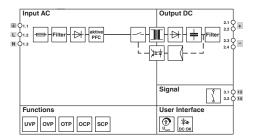
Diagram



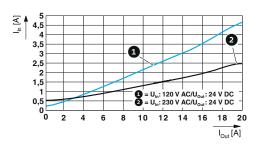
Diagram



Block diagram

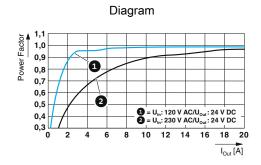


Diagram

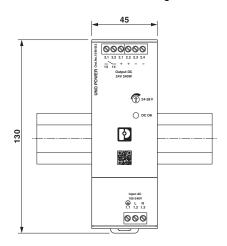


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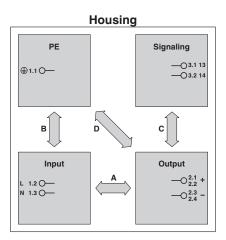




Dimensional drawing

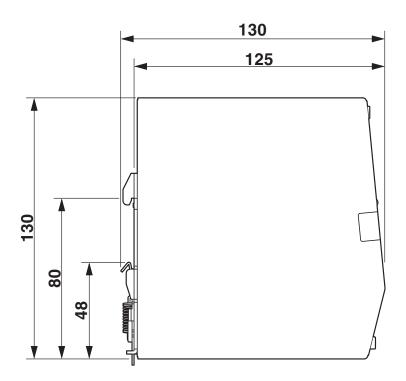


Schematic diagram





Dimensional drawing



Classifications

eCl@ss

eCl@ss 11.0	27040701
eCl@ss 9.0	27040701

ETIM

ETIM 7.0	EC002540
ETHAT 7.0	2002540

Approvals

Approvals

Approvals

EAC

Ex Approvals

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Approvals

Approval details

EAC

EHE

RU*DE*08.B.01873/19

Accessories

Accessories

Device circuit breakers

Electronic circuit breaker - CBMC E4 24DC/1-4A NO - 2906031



Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Electronic circuit breaker - CBMC E4 24DC/1-10A NO - 2906032



Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Electronic circuit breaker - CBMC E4 24DC/1-4A+ IOL - 2910410



 $\label{lem:multi-channel} \begin{tabular}{ll} Multi-channel electronic circuit breaker with IO-Link interface for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails. \\ \end{tabular}$

Electronic circuit breaker - CBMC E4 24DC/1-10A IOL - 2910411



Multi-channel electronic circuit breaker with IO-Link interface for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

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Accessories

Electronic circuit breaker - CBM E4 24DC/0.5-10A NO-R - 2905743



Multi-channel, electronic circuit breaker with active current limitation for protecting four loads at 24 V DC in the event of overload and short circuit. With nominal current assistant and electronic locking of the set nominal currents. For installation on DIN rails.

Electronic circuit breaker - CBM E8 24DC/0.5-10A NO-R - 2905744



Multi-channel, electronic circuit breaker with active current limitation for protecting eight loads at 24 V DC in the event of overload and short circuit. With nominal current assistant and electronic locking of the set nominal currents. For installation on DIN rails.

Device protection

Type 3 surge protection device - PLT-SEC-T3-230-FM - 2905229



Pluggable device protection, according to type 3/class III, for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with integrated surge-proof fuse and remote indication contact. Also suitable for DC applications.

Redundancy module

Redundancy module - UNO-DIODE/5-24DC/2X10/1X20 - 2905489



Redundancy module, 5 V - 24 V DC, 2 x 10 A, 1 x 20 A.



Accessories

Redundancy module, with protective coating - QUINT-ORING/24DC/2X20/1X40 - 2320186



Active QUINT redundancy module for DIN rail mounting with ACB (Auto Current Balancing) Technology and monitoring functions, input: 24 V DC/2x 20 A, output: 24 V DC/1 x 40 A, including mounted UTA 107/30 universal DIN rail adapter

Diode - TRIO2-DIODE/12-24DC/2X20/1X40 - 2907379



Redundancy module, 12 V - 24 V DC, 2 x 20 A, 1 x 40 A

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