

**PRO ECO3 960W 24V 40A II**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com



The new PROeco 2nd generation power supplies maximise the availability of automation applications. The twelve-part series offers standard functions: with high performance, efficiency and suitability for many systems. The three-colour LED makes service activities and the integration of PROeco devices particularly easy. The series is compatible with DC UPS, electronic load monitoring and diode modules and is suitable for setting up power management systems. The compact design suits space-constrained applications, such as flat control cabinets in the field.

**General ordering data**

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	<a href="#">3025660000</a>
Type	PRO ECO3 960W 24V 40A II
GTIN (EAN)	4099986952058
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E255651
Certificate no. (cULus)	E258476

**Dimensions and weights**

Depth	150 mm	Depth (inches)	5.9055 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	110 mm	Width (inches)	4.3307 inch
Net weight	2490 g		

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Start-up	≥ -40 °C	Humidity	5...95 % rel. humidity, no condensation

**Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1, Lead monoxide 1317-36-8
SCIP	cc530c6d-a7ac-41ec-a2b4-caa3b47dbe25

**Rated data UL**

Certificate No. (cURus)	E255651
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**Input**

Connection system	Screw connection	
AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	
Recommended back-up fuse	6 A / DI, safety fuse 10 A, Char. B, circuit breaker 6...8 A, Char. C, circuit breaker	
Frequency range AC	45...65 Hz	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)	
Surge protection	Varistor	
Input fuse	internal	
Wire connection method	Screw connection	
DC input voltage range	450...800 V DC	
Current consumption in relation to the input voltage	Voltage type	3-phase AC
	Input voltage	400 V
	Input current	1.59 A
	Voltage type	3-phase AC
	Input voltage	500 V
	Input current	1.29 A
	Voltage type	DC
	Input voltage	450 V
	Input current	2.28 A

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### Technical data

	Voltage type	DC
	Input voltage	800 V
	Input current	1.29 A
Line regulation (typ.)	1 %	
Nominal power consumption	1032.3 VA	
Inrush current (typ.)	12 A	
Load regulation (typ.)	1 %	
Start-up time, max.	1 s	

### Output

Output power	960 W	
Max. residual ripple	<50 mVPP / bandwidth 20 MHz	
Connection system	Screw connection	
Rated output voltage	24 V DC	
Parallel connection option	yes, max. 3	
Overload protection	Yes	
Output voltage, max.	28 V	
Output voltage, min.	22 V	
Wire connection method	Screw connection	
Output voltage, note	(adjustable via potentiometer)	
Nominal output current for $U_{nom}$	40 A @ 55 °C	
Line regulation (typ.)	1 %	
Capacitive load	unrestricted	
Mains failure bridge-over time	Mains failure bridge-over time, min.	22 ms
	Input voltage type	AC
	Input voltage	400 V
	Output current	40 A
	Output voltage	24 V
	Mains failure bridge-over time, min.	21 ms
	Input voltage type	AC
	Input voltage	500 V
	Output current	40 A
	Output voltage	24 V
Protection against inverse voltage	Yes	
Continuous output current @ $U_{Nominal}$	25 A @ 70 °C	
Load regulation (typ.)	1 %	
Ramp-up time	≤ 100 ms	

### General data

Degree of efficiency	Typ.: 92,6% @ 400 V AC, Typ.: 92,4% @ 480 V AC	
Humidity	5...95 % rel. humidity, no condensation	
Protection degree	IP20	
Surge voltage category	II	
Mounting position, installation notice	on terminal rail TS 35	
Housing version	Metal, corrosion resistant	
Protection against reverse voltages from the load	30...35 V DC	
Power factor	Power factor typical	0.94
	Input voltage	400 V
	Ambient temperature	25 °C
	Output power	960 W
Earth leakage current, max.	3.5 mA	
Power loss, idling	5 W	
Short-circuit protection	Yes	
Power loss, nominal load	82 W	
Protection against over-heating	Yes	

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**EMC / shock / vibration**

Limiting of mains voltage harmonic currents	EN 61000-3-2	Shock resistance IEC 60068-2-27	30 g in all directions
Noise emission in accordance with EN55032	Class B	Interference immunity test acc. to	EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (burst), EN 61000-4-5 (surge), EN 61000-4-6 (conducted), EN61000-4-8 (Fields), EN 61000-4-11 (Dips), IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4
Vibration resistance IEC 60068-2-6	0.7 g		

**Insulation coordination**

Surge voltage category	II	Pollution severity	2
Protection class	I, with PE connection	Insulation voltage, input/output	4 kV
Insulation voltage input / earth	3 kV	Insulation voltage output / earth	0.5 kV

**Electrical safety (applied standards)**

Electrical machine equipment	Acc. to EN60204	Safety extra-low voltage	SELV acc. to IEC 61010-1, PELV acc. to IEC 61010-2-201
Safety transformers for switch-mode power supplies	According to EN 61558-2-16		

**Connection data (input)**

Connection system	Screw connection	Number of terminals	4 for L1/L2/L3/PE
Screwdriver blade	0.8 x 4.0	Conductor cross-section, AWG/kcmil , max.	10 AWG
Conductor cross-section, AWG/kcmil , min.	20 AWG	Wire connection cross section, flexible (input), max.	4 mm <sup>2</sup>
Conductor cross-section, flexible , min.	0.22 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>	Tightening torque, min.	0.5 Nm
Stripping length (input)	8 mm	Tightening torque, max.	0.6 Nm

**Connection data (output)**

Connection system	Screw connection	Number of terminals	5 (+ + / - - -)
Conductor cross-section, AWG/kcmil , max.	8 AWG	Conductor cross-section, AWG/kcmil , min.	22 AWG
Conductor cross-section, flexible , max.	16 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid , max.	16 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>
Stripping length (output)	12 mm	Tightening torque, min.	1.2 Nm
Screwdriver blade	1.0 x 5.5	Tightening torque, max.	2.2 Nm

**Connection data (signal)**

Wire connection cross-section, flexible (signal), max.	1.5 mm <sup>2</sup>	Stripping length (Signal)	8 mm
Wire cross-section, AWG/kcmil , max.	14	Wire cross-section, solid , min.	0.2 mm <sup>2</sup>
Wire cross-section, solid , max.	1.5 mm <sup>2</sup>	Wire connection cross-section, flexible (signal), min.	0.2 mm <sup>2</sup>
Number of terminals	2	Wire cross-section, AWG/kcmil , min.	28 mm <sup>2</sup>

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**Signalling**

Floating contact	Yes	LED green	Operating voltage OK
Contact load (NO contact)	max. 30 V DC / 1 A		

**Classifications**

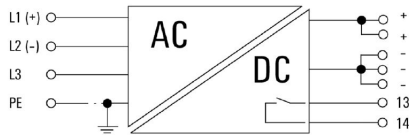
ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	EC002540	ECLASS 9.0	27-04-07-01
ECLASS 9.1	27-04-07-01	ECLASS 10.0	27-04-07-01
ECLASS 11.0	27-04-07-01	ECLASS 12.0	27-04-07-01
ECLASS 13.0	27-04-07-01	ECLASS 14.0	27-04-07-01
ECLASS 15.0	27-04-07-01		

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# Drawings

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Pay attention to polarity of DC connection

Status indicator and status relay

Operational status	Status LED	Relay contact (NO)
Fault-free operation: $U_{out} > 90\%$ of the set voltage	green	closed
Fault: $U_{out} \leq 85\%$ of the set voltage	red	opened
Overload pre-warning: $I_{out} > 90\% I_N$ (tolerance: $\pm 5\%$ ) and $U_{out} > 90\%$ of the set voltage	yellow	closed

