

PRO QL 240W 24V 10A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	3076370000
Type	PRO QL 240W 24V 10A
GTIN (EAN)	4099987080743
Qty.	1 items

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Depth	111 mm	Depth (inches)	4.3701 inch
Height	125 mm	Height (inches)	4.9212 inch
Width	48 mm	Width (inches)	1.8898 inch
Net weight	761.17 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-30 °C...70 °C
Humidity	5 to 95 % (non-condensing)		

Input

Connection system	Screw connection	AC input voltage range	100...240 V AC
Recommended back-up fuse	4 A / DI, safety fuse 10 A, Char. B, circuit breaker 3...4 A, Char. C, circuit breaker	Frequency range AC	47...63 Hz
Rated input voltage	100...240 V AC	Input fuse (internal)	Yes
Input current	2.7 A @ 100 V AC / 1.25 A @ 230 V AC	Inrush current	max. 40 A

Output

Output power	240 W	Connection system	Screw connection
Rated output voltage	24 V DC $\pm$ 1 %	Residual ripple, breaking spikes	<150 mVPP
Output voltage, max.	28 V	Output voltage, min.	24 V
Output voltage, note	(adjustable via potentiometer)	Capacitive load	30.000 μ F
Protection against inverse voltage	Yes		

General data

Power factor (approx.)	>0.95 (230 V AC)	Degree of efficiency	94.2 %
Humidity	5 to 95 % (non-condensing)	Protection degree	IP20
Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring subassemblies.	Housing version	Metal, corrosion resistant
Protection against reverse voltages from the load	30...35 V DC	Indication	Green LED for protection available
Earth leakage current, max.	3.5 mA	Power loss, idling	0.97 W
Short-circuit protection	Yes	Power loss, nominal load	25.56 W
Operating altitude	5000 m	Protection against over-heating	Yes

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EMC / shock / vibration

Limiting of mains voltage harmonic currents	According to EN 61000-3-2	Noise emission in accordance with EN55032	Class B
Interference immunity test acc. to	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 3 GHz: 10 V/m, IEC 61000-4-4 Fast transient/burst: DC/AC power port: ± 4 kV; data port: ± 2 kV; IEC 61000-4-5 Surge: Mains power port: ± 2 kV (line-line), ± 4 kV (line-earth); DC or Signal port : ± 0.5 kV (line-line), ± 1 kV (line-earth), IEC 61000-4-6 CS: 10 V, IEC 61000-4-8, IEC 61000-4-11	Vibration resistance IEC 60068-2-6	2.3 g

Insulation coordination

Pollution severity	2	electrical isolation, output-earth	0.5 kV
electrical isolation, input-output	3 kV	electrical isolation, input-earth	2 kV
Insulation voltage, input/output	3 kV	Insulation voltage input / earth	2 kV
Insulation voltage output / earth	0.5 kV		

Connection data (input)

Connection system	Screw connection	Number of terminals	3 for L/N/PE
Conductor cross-section, AWG/kcmil , max.	10 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
Wire connection cross section, flexible (input), max.	6 mm ²	Conductor cross-section, flexible , min.	0.34 mm ²
Conductor cross-section, rigid , max.	6 mm ²	Conductor cross-section, rigid , min.	0.34 mm ²
Tightening torque, min.	1 Nm	Tightening torque, max.	1.2 Nm

Connection data (output)

Connection system	Screw connection	Number of terminals	4 (++ / -)
Conductor cross-section, AWG/kcmil , max.	10 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
Conductor cross-section, flexible , max.	6 mm ²	Conductor cross-section, flexible , min.	0.34 mm ²
Conductor cross-section, rigid , max.	6 mm ²	Conductor cross-section, rigid , min.	0.34 mm ²
Tightening torque, min.	1 Nm	Tightening torque, max.	1.2 Nm

Classifications

ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	EC002540	ECLASS 14.0	27-04-07-01
ECLASS 15.0	27-04-07-01		