

PRO QL 120W 24V 5A

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.	3076360000
Type	PRO QL 120W 24V 5A
GTIN (EAN)	4099987080729
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	38 mm	Width (inches)	1.4961 inch
Net weight	612.3 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 6 A, Char. B, circuit breaker 3...5 A, Char. C, circuit breaker	Frequency range AC	47...63 Hz
Rated input voltage	100...240 V AC	Input fuse (internal)	Yes
Inrush current	max. 40 A		

Output

Output power	120 W	Connection system	Screw connection
Rated output voltage	24 V DC $\pm$ 1 %	Residual ripple, breaking spikes	<120 mVpp
Output voltage, max.	28 V	Output voltage, min.	24 V
Output current, max.	5 A	Output voltage, note	(adjustable via potentiometer)
Capacitive load	10,000 μ F	Protection against inverse voltage	Yes

General data

Power factor (approx.)	0.45 @ 230 V AC	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
Degree of efficiency (typ.)	89 %	Earth leakage current, max.	3.5 mA
Power loss, idling	0.89 W	Short-circuit protection	Yes
Power loss, nominal load	13.51 W	Protection against over-heating	Yes

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	Vibration resistance IEC 60068-2-6	2.3 g

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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

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
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.	0.5 Nm
Tightening torque, max.	0.6 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.	0.5 Nm	Tightening torque, max.	0.6 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		