

PRO INSTA 90W 24V 3.8A

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

www.weidmueller.com



The single-phase INSTA-POWER switching power supplies are characterised by a wide power spectrum, compact design and good value for money. They are suitable for temperature ranges from -25°C to +70°C, have international approvals and a wide voltage input range. This makes them suitable for a wide range of applications. This also includes signal and telecommunications systems as well as automation systems with a low power requirement up to 96 Watt.

General ordering data

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	2580250000
Type	PRO INSTA 90W 24V 3.8A
GTIN (EAN)	4050118590982
Qty.	1 pc(s).

Creation date 22 December 2021 08:26:33 CET

Catalogue status 17.12.2021 / We reserve the right to make technical changes.

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Technical data
Dimensions and weights

Depth	60 mm	Depth (inches)	2.362 inch
Height	90 mm	Height (inches)	3.543 inch
Width	90 mm	Width (inches)	3.543 inch
Net weight	352 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

AC current consumption	1.2 A @ 230 V AC / 2.4 A @ 100 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	PUSH IN with actuator	DC current consumption	0.4 A @ 370 V DC / 1.3 A @ 120 V DC
DC input voltage range	95...370 V DC	Frequency range AC	45...65 Hz
Input fuse (internal)	Yes	Inrush current	max. 40 A
Nominal power consumption	103.4 VA	Recommended back-up fuse	2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker
Wire connection method	PUSH IN with actuator		

Output

Capacitive load	unrestricted	Connection system	PUSH IN
Nominal output current for U_{nom}	3.8 A @ 55 °C	Output power	90 W
Output voltage, max.	25 V	Output voltage, min.	22 V
Output voltage, note	(adjustable via potentiometer on front)	Ramp-up time	≤ 100 ms
Rated output voltage	24 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mVss @ U_{Nenn} , Full Load
Wire connection method	PUSH IN with actuator		

General data

Degree of efficiency	87 %	Housing version	Plastic, protective insulation
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 active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load	Operating temperature	-25 °C...70 °C
Power loss, idling	0.45 W	Protection against reverse voltages from the load	30...35 V DC
Short-circuit protection	Yes, internal		

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Technical data
EMC / shock / vibration

Interference immunity test acc. to	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips), EN 61000-4-11 (Dips)	Limiting of mains voltage harmonic currents	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips), EN 61000-4-11 (Dips)
Noise emission in accordance with EN55032	Class B	Shock resistance IEC 60068-2-27	15 g In all directions
Vibration resistance IEC 60068-2-6	2.3 g		

Insulation coordination

Insulation voltage, input/output	4 kV	Pollution severity	2
Protection class	II		

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protection against dangerous shock currents	Acc. to VDE0106-101	Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety extra-low voltage	SELV acc. to IEC 60950-1, PELV according to EN 60204-1	Safety transformers for switch-mode power supplies	According to EN 61558-2-16

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	24
Conductor cross-section, flexible , min.	0.25 mm ²	Conductor cross-section, rigid , max.	2.5 mm ²
Conductor cross-section, rigid , min.	0.25 mm ²	Connection system	PUSH IN with actuator
Wire connection cross section, flexible (input), max.	2.5 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	24
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.25 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.25 mm ²
Connection system	PUSH IN	Number of terminals	4 (++ / -)

Signalling

LED green	Operating voltage OK
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Approvals

Certificate No. (CSA)	70211209	Institute (CSA)	CSA
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Technical data
Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	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		

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Operating instruction
Catalogues	Catalogues in PDF-format

Data sheet

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Drawings

