

PRO INSTA 90W 24V 3.8A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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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

Type	PRO INSTA 90W 24V 3.8A
Order No.	2580250000
Version	
GTIN (EAN)	4050118590982
Qty.	1 pc(s).

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Technical data
Dimensions and weights

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

Temperatures

Operating temperature, max.	70 °C	Operating temperature, min.	-25 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature	-25 °C...70 °C	Storage temperature	-40 °C...85 °C

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	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
Rated input voltage	100 - 240 V AC / 120 - 340 V DC	Recommended back-up fuse	2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker

Output

Capacitive load	unrestricted	Connection system	PUSH IN
Continuous output current @ U _{Nominal}	3.8 A @ 55 °C, 2.38 A @ 70 °C	Nominal output current for U _{nom}	3.8 A @ 55 °C
Output voltage	22...28 V (adjustable via potentiometer on front)	Ramp-up time	≤ 100 ms
Rated output voltage	24 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mV _{ss} @ U _{Nenn} , Full Load

General data

Degree of efficiency	87 %	Housing version	Plastic, protective insulation
MTBF	> 750.000 h nach IEC 61709 (SN29500)	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
Power loss, nominal load	11.7 W	Protection against reverse voltages from the load	30...35 V DC
Protection degree	IP20		

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EMC / shock / vibration

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
Vibration resistance IEC 60068-2-6	2.3 g	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)
Shock resistance IEC 60068-2-27	15 g In all directions		

Insulation coordination

Insulation voltage input / earth	3.5 kV	Insulation voltage output / earth	0.5 kV
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 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
Number of terminals	2 (L,N)	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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Data sheet

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Technical data

Approvals

Institute (CSA)



Certificate No. (CSA)

70211209

Classifications

ETIM 6.0	EC002540	eClass 6.2	19-05-10-01
eClass 9.0	27-04-07-01	eClass 9.1	27-04-07-01

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
User Documentation	Operating instruction

Data sheet

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Drawings

