Lovato electric
ENERGY AND AUTOMATION

PSE110024

COMPACT DIN RAIL SWITCHING POWER SUPPLY, SINGLE-PHASE. 24VDC, 4.2A/100W

Product designation				Switching power supplies
Product type designation				PSE1
Input characteristics				
Input type				Single-phase
Rated supply voltage AC			VAC	Multivoltage 100...240
Operating range				
	AC			
		min	VAC	85
		Max	VAC	264
	DC			
		min	VDC	120
		Max	VDC	375
Rated frequency			Hz	50/60
Operational frequency				
		min	Hz	47
		max	Hz	63
Current consumption Max			mA	2300
Power dissipation			W	17
Insulation voltage Input/Output				
		AC	VAC	3000
		DC	VAC	4242
Internal fuse (250VAC)				T3.15A 250VAC
Output characteristics				
Rated output voltage DC			VDC	24
Voltage trimming (potentiometer) DC				
		min	VDC	22.5
		Max	VDC	28.5
Rated output current			A	4.2
Rated output power			W	100
Temperature coefficient			%/°C	±0.03
Line adjustment			%	±1
Load adjustment			%	±1
Efficency			%	88
Overload protection				1.4
Overvoltage protection				min 28.8V / max 32.4V
Short-circuit protection				Hiccup
Ripple & noise			mV	100
Parallel connection			Nr.	No
Indications				
LED indicator for power on				Yes
LED indicator for low voltage				No
Power Rdy (Ready - minimum limit)				No

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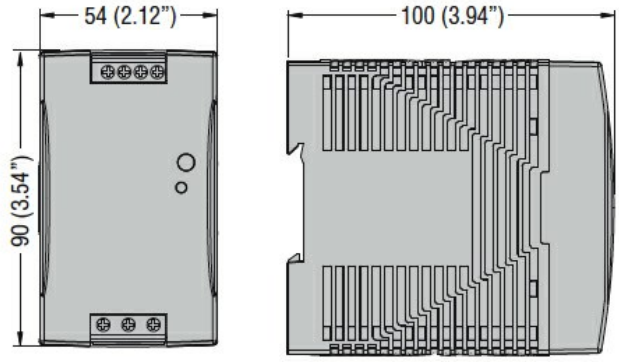
Connections				
Terminals type				Screw
Tightening torque for terminals				
		max	Nm	0.5
		max	lbin	5
Conductor cross section				
	AWG/Kcmil			
		min	AWG	26
		Max	AWG	12
	IEC			
		min	mm²	0.2
		Max	mm²	2.5
Cable stripping lenght			mm	4-5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+71
	Storage temperature			
		min	°C	-40
		max	°C	+85
Derating			%/°C	2.5%/°C above 45°C
Relative humidity			%	<95%
Maximum Pollution degree				2
Max altitude			m	5000
Housing				
Material				Plastic
IEC degree of protection				IP20
Dimensions (W x H x D)			mm	54 x 90 x 100
Weight			g	350
Installations				
Mounting				On 35mm DIN rail
Installation position				Vertical (other directions with derating)
Cooling System				Free air convection

Dimensions



Wiring diagrams

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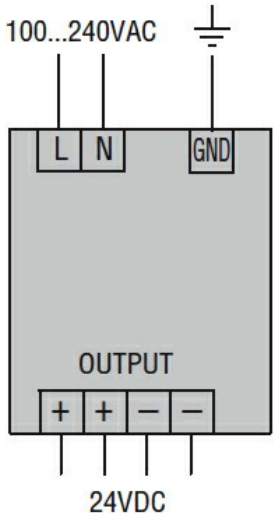

Certifications and compliance

Compliance

	CSA C22.2 n° 107.1.
	IEC/EN/BS 61000-6-2
	IEC/EN/BS 61000-6-3
	IEC/EN/BS 62368-1
	UL 508

Certificates

	cULus
	EAC
	RCM

ETIM classification

ETIM 8.0	EC002540 - DC-power supply

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