



Product designation				Switching power supplies			
Product type designation				PSL1			
Input characteristics							
Input type				Single-phase			
Rated supply voltage AC				VAC	Self-configurable 115...230		
Operating range							
AC				min	VAC	90	
				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	7A (90VAC) / 3.5A (180VAC)		
PFC				0.97			
Insulation voltage Input/Output					AC	VAC	3000
					DC	VAC	4242
Internal fuse (250VAC)				T10A 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	20		
Rated output power				W	480		
Temperature coefficient				%/°C	±0.03		
Line adjustment				%	±0.5		
Load adjustment				%	±1		
Efficiency				%	89		
Overload protection				110...140%			
Short-circuit protection				Fold forward			
Ripple & noise				mV	100		
Parallel connection				Nr.	3		
Indications							
LED indicator for power on				Yes			
LED indicator for low voltage				Yes			
Power Rdy (Ready - minimum limit)				Yes			
Connections							

Terminals type

Screw

Ambient conditions

Temperature

Operating temperature

min	°C	-40
max	°C	+71

Storage temperature

min	°C	-40
max	°C	+85

Derating

%/°C	2.5%/°C above 56°C
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Housing

Material

Metal

IEC degree of protection

IP20

Dimensions (W x H x D)

mm	175.5 x 124.5 x 125
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Weight

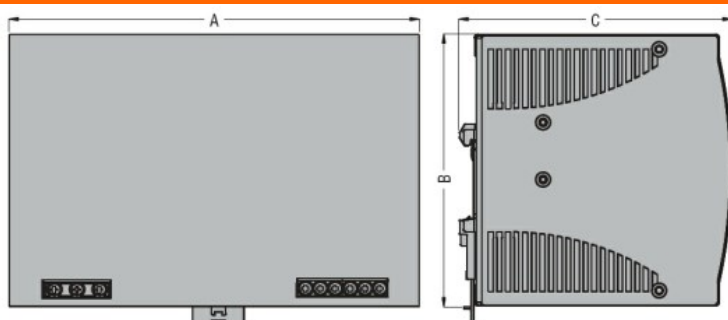
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Installations

Mounting

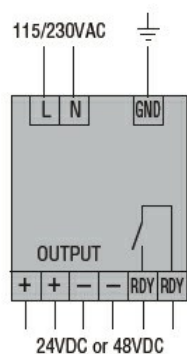
On 35mm DIN rail

Dimensions



TYPE	A	B	C
PSL1 120...	64 (2.52")	124.5 (4.90")	123.6 (4.87")
PSL1 240...	83.5 (3.29")	124.5 (4.90")	123.6 (4.87")
PSL1 300...	83.5 (3.29")	124.5 (4.90")	123.6 (4.87")
PSL1 480...	175.5 (6.91")	124.5 (4.90")	123.6 (4.87")
PSL3 120 24	74.3 (2.92")	124 (4.88")	118.8 (4.68")
PSL3 240...	89 (3.50")	124 (4.88")	118.8 (4.68")
PSL3 480...	150 (5.90")	124 (4.88")	118.8 (4.68")
PSL3 960...	275.8 (10.86")	125.9 (4.96")	120.3 (4.74")

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n°14

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