



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

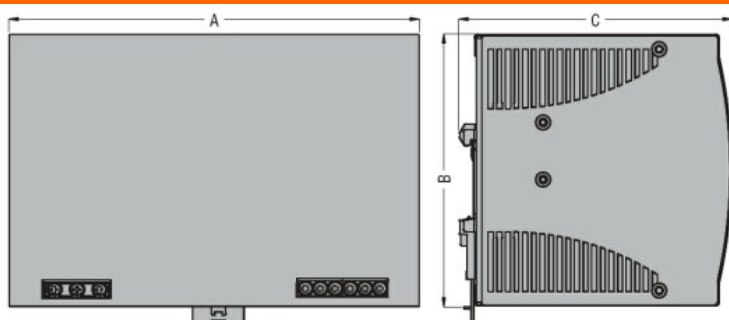
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Installations

Mounting

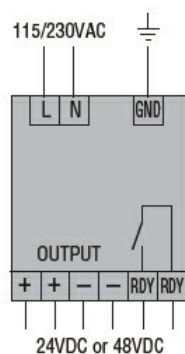
On 35mm DIN rail

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