



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

Housing

Material Metal

IEC degree of protection IP20

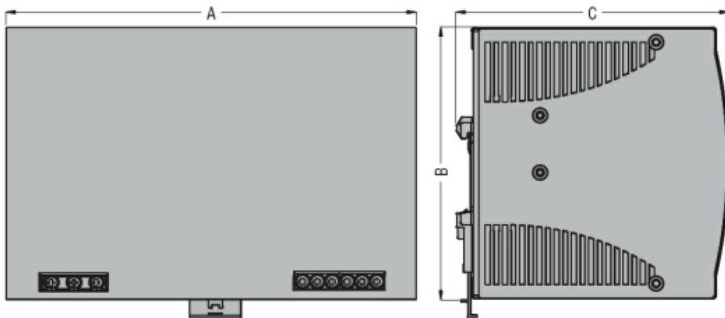
Dimensions (W x H x D) mm 175.5 x 124.5 x 125

Weight g 2348

Installations

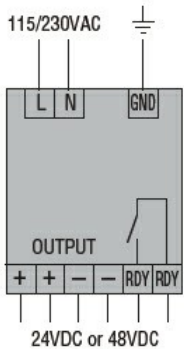
Mounting On 35mm DIN rail

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