## Product data sheet Characteristics

## ABL1REM24042

regulated SMPS - single phase - 100..240 V input - 24 V output - 100 W



- N /	10	in
1.0		

Main	
Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	100 W
Input voltage	120370 V DC 100240 V AC single phase
Output voltage	24 V DC
Power supply output current	4.2 A
Operating position	Any position
Vibration resistance	3.5 mm (f = 59 Hz) conforming to EN/IEC 61131-2 2 gn (f = 9150 Hz) conforming to EN/IEC 61131-2
Name of test	Surge conforming to EN/IEC 61000-4-5 Rapid transient conforming to IEC 61000-4-4 level 3 Radiated electromagnetic field conforming to EN/ IEC 61000-4-3 level 3 Primary outage conforming to IEC 61000-4-11 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Emission conforming to EN/IEC 61000-6-3 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Conducted/Radiated emissions conforming to EN/ IEC 55011 Conducted/Radiated emissions conforming to EN 55022 Class B Conducted interference conforming to EN 61000-4-8 level 4

#### Complementary

complementary	
Input voltage limits	85264 V
Network frequency limits	4763 Hz
Inrush current	<= 50 A
Cos phi	0.65
Efficiency	> 80 %
Power dissipation in W	25 W
Current consumption	1.4 A at 100 V 0.7 A at 240 V
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	21.626.4 V
Line and load regulation	+/- 3 %
Residual ripple	< 200 mV
Holding time	>= 40 ms at 240 V >= 10 ms at 100 V
Output protection type	Thermal Against short-circuits, protection technology: automatic reset Against overvoltage, protection technology: tripping if U > 1.25 x Un Against overload, protection technology: 1.11.5 x In
Connections - terminals	Screw type terminals for output connection, connection capacity: 4 x 4 mm <sup>2</sup> AWG gauge12 Screw type terminals for input connection, connection capacity: 2 x 4 mm <sup>2</sup> AWG gauge12 Screw type terminals for ground connection, connection capacity: 1 x 4 mm <sup>2</sup> AWG gauge12
Marking	CE



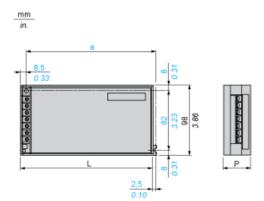
Mounting support	Panel	
	Reversible mounting bracket	
Output coupling	Parallel	
	Series	
Overvoltage category	II	
Meantime between failure (MTBF)	> 100000 h at 40 °C	
Status LED	1 LED green for output voltage	
Product weight	0.64 kg	
Environment		

Product certifications	CCSAus
	CSA 22-2 No 60950-1
	C-Tick
	TÜV
	UL 508
	UL 60950-1
Environmental characteristic	Safety conforming to SELV
	Safety conforming to EN/IEC 60950-1
	EMC conforming to EN/IEC 61000-6-2
	EMC conforming to EN 61000-6-3
	EMC conforming to EN 50082-2
	EMC conforming to EN 50081-1
IP degree of protection	IP20 conforming to EN/IEC 60950
Ambient air temperature for operation	4560 °C with derating factor
	045 °C without derating factor
Ambient air temperature for storage	-2585 °C
Relative humidity	2090 %
Class of protection against electric shock	Class I conforming to VDE 0106-1
Pollution degree	2
Dielectric strength	500 V between output and ground
	3000 V between input and output
	1500 V between input and ground

Product data sheet Dimensions Drawings

# ABL1REM24042

#### Dimensions



#### Dimensions in mm

а	L	P
194	200	38
Dimensions in in.		

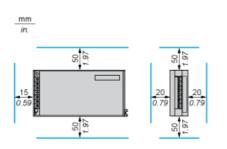
а	L	P
7.64	7.87	1.50



Product data sheet Mounting and Clearance

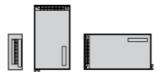
## ABL1REM24042

## Clearance



### Mounting Way

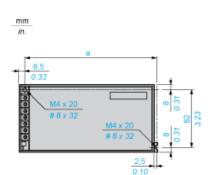
Mounting on Vertical Plane



Mounting on Horizontal Plane

ຝີ

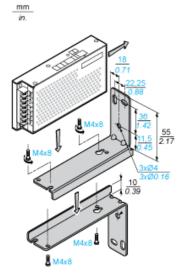
#### Direct Mounting by 2 M4 x 20 Screws



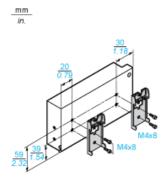
Dimensions in mm

a	
194	
Dimensions in in	
a	
7.64	

#### Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws



### Mounting on ABL 1A02 Clip-on Mounting on 35 mm Rail



### Mounting by the Back



#### Dimensions in mm

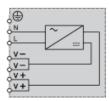
b	C
38	58
Dimensions in in.	

b	c
1.50	2.28



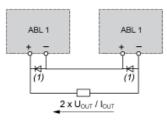
# ABL1REM24042

### Internal Wiring Diagram

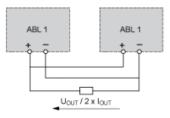


#### Series or Parallel Connection

#### Series Connection



#### Parallel Connection



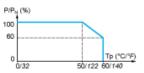
(1) 8 A/100 V Shottky diode

Product data sheet Performance Curves

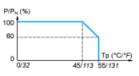
## ABL1REM24042

**Derating Curves** 

Mounting on Vertical Plane



#### Mounting on Horizontal Plane



#### Load Limits Curve

