# **ABL4WSR24200**

regulated SMPS - 3 phase - 400..500 V AC - 24 V -20A



#### Main

Range of product	Phaseo
Product or component type	Power supply
Power supply type	Regulated switch mode
Input voltage	400500 V AC three phase, terminal(s): L1, L2, L3
Output voltage	24 V DC
Rated power in W	480 W
Power supply output current	20 A
Output protection type	Against short-circuits, protection technology: automatic reset Thermal Against overload, protection technology: 33 V Against overvoltage
Ambient air temperature for operation	

#### Complementary

Complementary	
Input voltage limits	340550 V
Network frequency	4763 Hz
Inrush current	<= 10 A
Cos phi	> 0.75
Efficiency	> 93< 94 %
Output voltage limits	100116 % adjustable
Power dissipation in W	36 W 30 W
Current consumption	1.1 A at 500 V 1.3 A at 400 V
Line and load regulation	+/- 0.5 %
Residual ripple	
Holding time	>= 20 ms at 500 V >= 20 ms at 400 V
Permissible temporary current boost	1.5 x In for 5 seconds
Connections - terminals	Screw type terminals for input connection, connection capacity: 2 x 0.52 x 4 mm²AWG gauge2410  Screw type terminals for output connection, connection capacity: 2 x 0.52 x 4 mm²AWG gauge2410  Screw type terminals for input ground connection, connection capacity: 1 x 0.51 x 4 mm²AWG gauge2410  Screw type terminals for diagnostic relay, connection capacity: 2 x 0.52 x 4 mm²AWG gauge2410
Marking	CE
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail
Operating position	Vertical
Output coupling	Parallel Series
Name of test	Electrostatic discharges conforming to EN/IEC 61000-4-2 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Magnetic field conforming to EN 61000-4-8 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55011 class A Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5 Conducted emissions on the power line conforming to EN 55011 class A
Status LED	1 LED green for output voltage (> 21.6 V)



# 1 LED red for overload, overtemperature, overvoltage

Depth	139 mm
Height	127 mm
Width	80 mm
Product weight	1.3 kg

# **Environment**

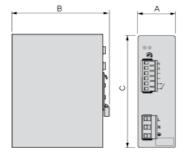
Product certifications	CSA C22-2 No 14 CULus 508
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950 Safety conforming to SELV
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for storage	-2580 °C
Relative humidity	090 % during operation 095 % in storage
Class of protection against electric shock	Class I conforming to VDE 0106-1
Dielectric strength	2000 V between input and ground 3000 V between input and output 500 V between output and ground

# Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 1045 - Schneider Electric declaration of conformity

# ABL4RSM240•••/4RSM24100/4WSR24••• Power Supplies

### **Dimensions**

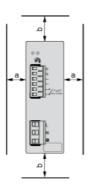


mm/inch	Α	В	С
ABL4RSM24035	39/1.53	128/5 04	115/4.53
ABL4RSM24050	38/1.33	120/3:04	
ABL4RSM24100	63.5/2.49	140/5.51	118/4.65
ABL4RSM24200		139/5.47	127/5.0
ABL4WSR24200	80/3.15		
ABL4WSR24300	00/3.75		
ABL4WSR24400			

# ABL4RSM240•••/4RSM24100/4WSR24•••

# Clearance





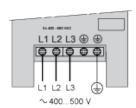
mm/inch	а	b
ABL4RSM24035	10/0.39	50/1.97
ABL4RSM24050	10/0.39	50/1.9/
ABL4RSM24100	20/0.79	100/3.94
ABL4RSM24200		
ABL4WSR24200	10/0.39	50/1.97
ABL4WSR24300	1010.55	50/1.5/
ABL4WSR24400		

#### **Wiring Requirements**

### **Cable Types and Wire Sizes**

	ABL4RSM24035 ABL4RSM24050 ABL4RSM24100	ABL4RSM24200 ABL4WSR24
mm²/AWG	0,22,5 / 2412	0,056 / 2410
mmvln	7 / 0.27	8 / 0.31
Cc Nmvlb-in	0,8 / 7.0	1,1 / 9.0

#### Input Voltage



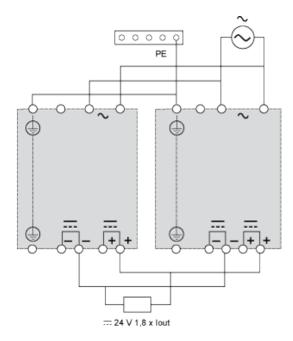
# **Outputs Connected in Parallel**

### **Paralleling**

- Use maximum of 2 power supplies with the same reference.
- For correct current share (±20%) between devices in parallel, adjust VOUT ±20 mV applying a load > PNOM x 0.2 to all ABL4 before connecting them in parallel.

#### **SELV: Safety Extra Low Voltage**

Safety Extra Low Voltage in accordance to IEC/EN 60950 and IEC/EN 50178 standards.



PELV: Protection Extra Low Voltage

