

Product datasheet

Specifications



buffer module, phaseo ABL7 ABL8,
24 to 28.8V DC, 40A, for power
supply

ABL8BUF24400

Main

Range Of Product	Phaseo
Product Or Component Type	Buffer module
Input Voltage	24...28.8 V DC
Output Voltage	(U _{in} -0.25) V in nominal mode DC (U _{in} -1) V in buffer mode DC
Maximum Output Current	40 A
Holding Time	0.1 s at 40 A 6 s at 0.5 A

Complementary

Input Voltage Limits	22...30 V
Maximum Power Dissipation In W	15 W
Activation Threshold	(U _{in} -1) V and 22 V min
Charging Time	25 s
Number Of Output Channels	1
Current Consumption	0.6 A on load 0.1 mA no load <= 40.6 A
Output Protection Type	Against overload, protection technology: > 45 A Against short-circuits, protection technology: power-supplied mode, automatic reset Against undervoltage, protection technology: tripping if U < 19 V
Connections - Terminals	For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8 For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm ² AWG 14
Fixing Mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical
Output Coupling	Parallel
Operating Altitude	2000 m
Marking	CE
Name Of Test	Electrostatic discharges conforming to IEC 61000-4-2 Emission conforming to IEC 61000-6-3 Induced electromagnetic field conforming to IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to IEC 61000-4-5 level 2 Conducted/radiated emissions conforming to EN 55022 class B, 20 %
Local Signalling	1 LED (green) for buffer ready 1 relay for buffer ready

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Net Weight	1.2 kg
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Environment

Product Certifications	RCM EAC
Standards	UL 508 CSA C22.2 No 60950-1
Ambient Air Temperature For Operation	-25...60 °C
Ambient Air Temperature For Storage	-40...85 °C
Environmental Characteristic	EMC conforming to IEC 61000-6-3 EMC conforming to IEC 61000-6-2 Safety conforming to IEC 60950-1 Safety conforming to EN/IEC 61204-3
Ip Degree Of Protection	IP20 conforming to IEC 60529
Dielectric Strength	500 V between input and ground 500 V between output and ground
Overvoltage Category	Class II conforming to VDE 0106-1
Relative Humidity	0...90 % during operation 0...95 % during storage
Mtbf Reliability	1119603 H at 24 V DC with UTE C80-810 calculation method
Vibration Resistance	2 gn (f= 11.9...150 Hz) conforming to IEC 61131-2 3.5 mm (f= 3...11.9 Hz) conforming to IEC 61131-2

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	17.0 cm
Package 1 Length	18.2 cm
Package 1 Weight	1.401 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	60
Package 2 Height	80.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	97.06 kg

Contractual warranty

Warranty	18 months
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Sustainability




Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

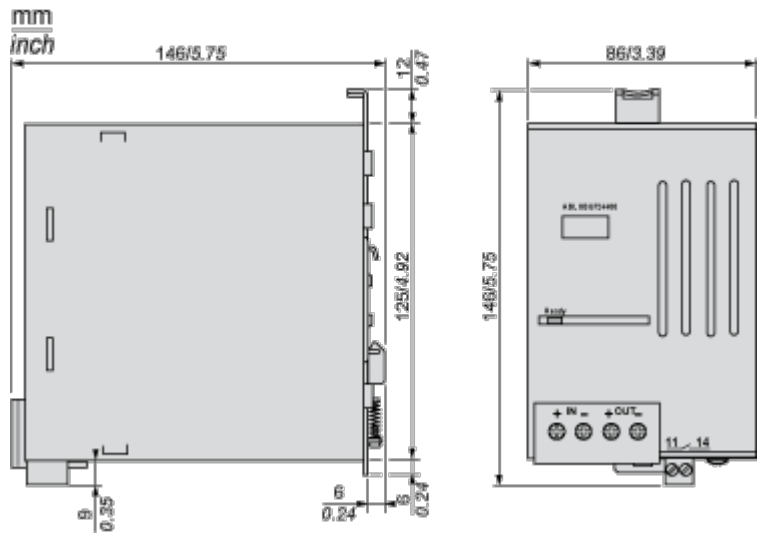
Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
 Pvc Free	
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration

Dimensions Drawings

24...28.8 Vdc/40 A Power Supply Buffer Module

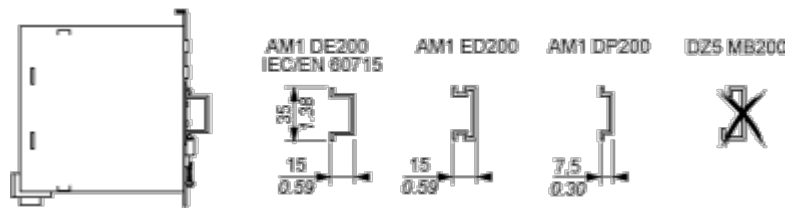
Dimensions



Mounting and Clearance

24...28.8 Vdc/40 A Power Supply Buffer Module




Mounting



Connections and Schema

Wiring Requirements

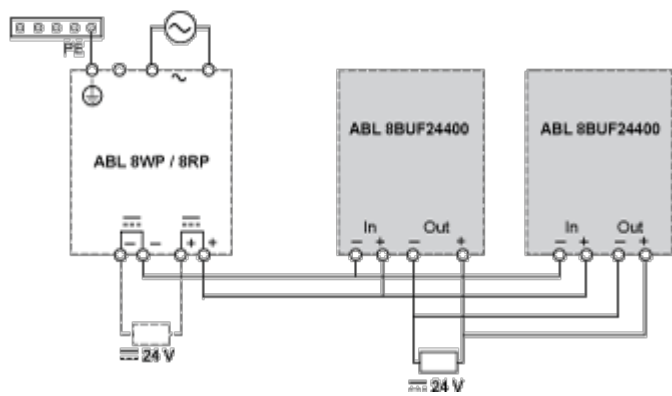
Cable Types and Wire Sizes

 $\varnothing \leq 4 \text{ mm}^2$ $\varnothing \leq 12 \text{ AWG}$	 $\varnothing > 4 \text{ mm}^2$ $\varnothing > 12 \text{ AWG}$	ABL	8RPS24030	8RPS24100 8RPS24400	8RPM24200 8RPM24400
+ In -	mm ² /AWG		1...4/16...12		
+ Out -	mm ² /AWG		1...4/16...12		4...10/12...6
 mm/in	mm/in		4/0,16		
11...14	mm ² /AWG	-	0,2...2,5/24...14		

Paralleling Power Supply Buffer Modules

Wiring Diagram

Two outputs of buffer modules at maximum can be connected in parallel.



Supply by R/C (NMTR2, NMTR8), (E164867), Model ABL8 series.