

Product datasheet

Specifications



buffer module - 24..28.8 V DC - 40 A - 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 >](#)

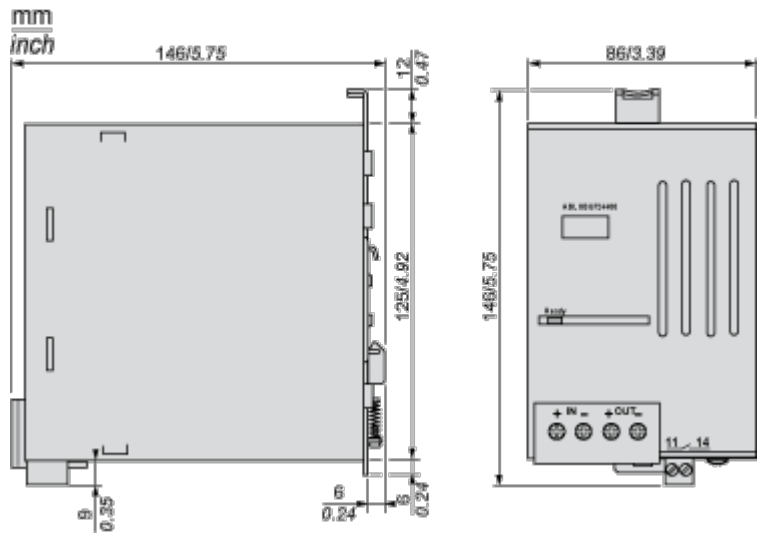
Well-being performance

 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

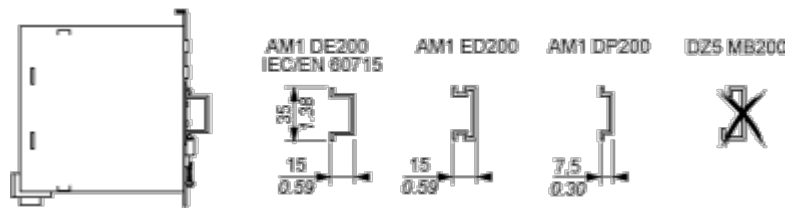
Dimensions



Mounting and Clearance

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




Mounting



Connections and Schema

Wiring Requirements

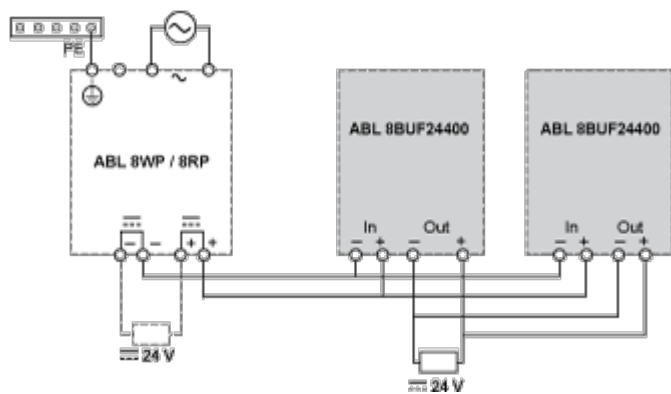
Cable Types and Wire Sizes

 $\varnothing \leq 4 \text{ mm}^2$ $\varnothing \leq 12 \text{ AWG}$	 $\varnothing > 4 \text{ mm}^2$ $\varnothing > 12 \text{ AWG}$	ABL	8RPS24030	8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
+ In -	mm²/AWG		1...4/16...12		
+ Out -	mm²/AWG		1...4/16...12 4...10/12...6		
 mm/in	mm/in		4/0,16		
11...14	mm²/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.