

# Product data sheet

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	(Uin-0.25) V in nominal mode DC (Uin-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	(Uin-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 <sup>2</sup> AWG 20...AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8 For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm <sup>2</sup> 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

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	11.500 cm
Package 1 Width	17.000 cm
Package 1 Length	18.200 cm
Package 1 Weight	1.401 kg
Unit Type of Package 2	P06
Number of Units in Package 2	60
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	97.060 kg

## Contractual warranty

Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	30934016-db3c-45f4-8cdf-0d6e2df0aa81
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
PVC free	Yes

## Use Again

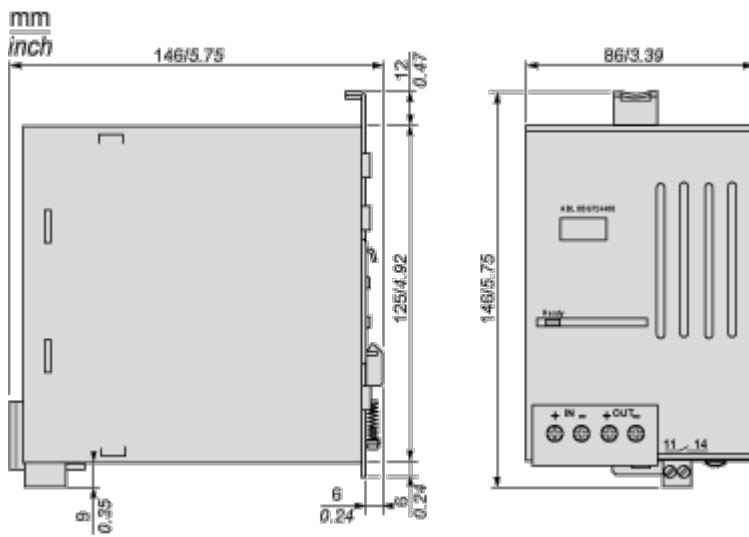
### Repack and remanufacture

Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Dimensions Drawings

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

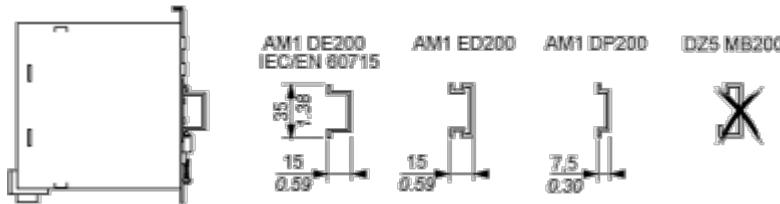
## Dimensions



## Mounting and Clearance

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

## Mounting



## Connections and Schema

Wiring Requirements

## Cable Types and Wire Sizes

mm in	ABL	8RPS24030	8RPS24050	8RPM24200	8WPS24200/24400
$\varnothing \leq 4 \text{ mm}^2$ $\varnothing \leq 12 \text{ AWG}$	10 0.39	17 0.67			
+ In –	mm <sup>2</sup> /AWG		1...4/16...12		
+ Out –	mm <sup>2</sup> /AWG		1...4/16...12	4...10/12...6	
$\varnothing \leq 14$	mm/in		4/0.16		
11...14	mm <sup>2</sup> /AWG	–	0.2...2.5/24...14		

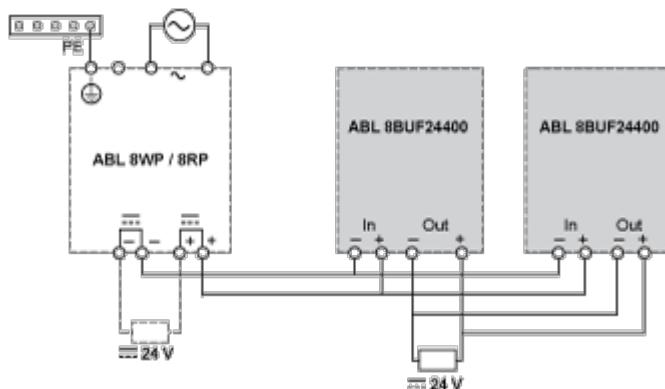
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**Paralleling Power Supply Buffer Modules**

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**Wiring Diagram**

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



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

Image of product / Alternate images

Alternative

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