

ABL8BUF24400

buffer module - 24..28.8 V DC - 40 A - for power supply



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
Current consumption	<= 40.6 A 0.6 A, on load 0.1 mA, no load
Charging time	< 25 s
Power dissipation in W	< 15 W
Activation threshold	(U _{in} -1) V and 22 V min
Number of output channels	1
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	Screw type terminals for input connection, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8 Screw type terminals for output connection, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8 Removable screw terminal block for diagnostic relay, 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 EN/IEC 61000-4-2 Emission conforming to EN 61000-6-3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/IEC 61000-4-5 level 2 Conducted/radiated emissions conforming to EN 55022 Class B, 20 % derating factor
Local signalling	1 LED green, function: buffer ready 1 relay, function: buffer ready
Product weight	1.2 kg

Environment

IP degree of protection	Conforming to EN/IEC 60529
ambient air temperature for operation	-25...60 °C
ambient air temperature for storage	-40...85 °C
relative humidity	0...90 % during operation 0...95 % during storage
overvoltage category	Class II conforming to VDE 0106-1
vibration resistance	3.5 mm (f = 3...11.9 Hz) conforming to EN/IEC 61131-2

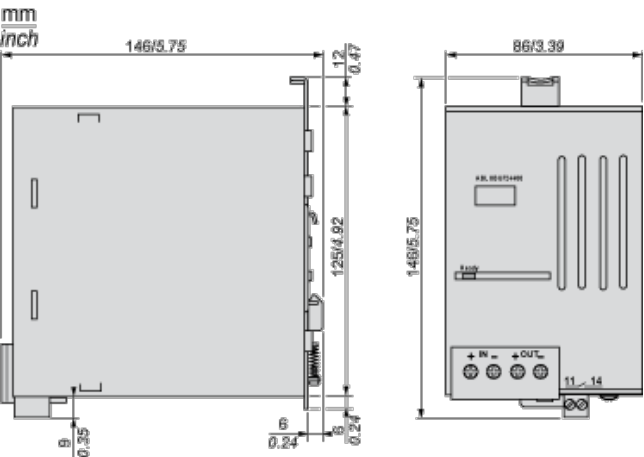
	2 gn (f = 11.9...150 Hz) conforming to EN/IEC 61131-2
dielectric strength	500 V between input and ground 500 V between output and ground
product certifications	RCM EAC EAC
standards	UL 508 CSA C22.2 No 60950-1
environmental characteristic	EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to EN/IEC 61204-3

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0501 - Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold
Product environmental profile	Available

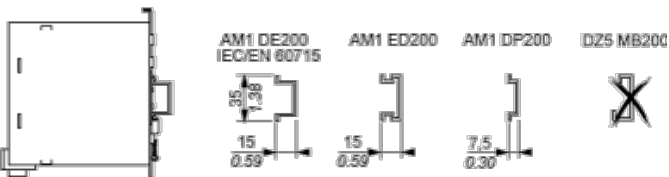
24...28.8 Vdc/40 A Power Supply Buffer Module

Dimensions



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

Mounting



Wiring Requirements

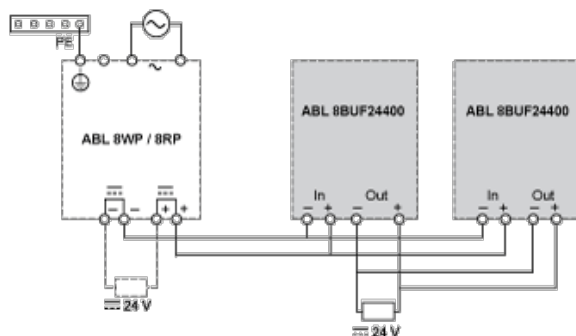
Cable Types and Wire Sizes

mm in	10 0.39	17 0.67	ABL	8RPS24030	8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
Ø ≤ 4 mm² Ø ≤ 12 AWG		Ø > 4 mm² Ø > 12 AWG				
+ In -	mm²/AWG			1...4 / 16...12		
+ Out -	mm²/AWG			1...4 / 16...12	4...10 / 12...6	
⊕ ⊖	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.