



### Main

Range Compatibility	Altivar Machine ATV320 Altivar&Nbsp;Process ATV900 Altivar Machine ATV340
Product or Component Type	Braking resistor
Ohmic value	16 Ohm
[Ue] rated operational voltage	24 V DC 250 V AC

### Complementary

Product compatibility	Variable speed drive ATV930 wall mount 18.5 kW 380...480 V light cycle Variable speed drive ATV930 wall mount 22 kW 380...480 V light cycle Variable speed drive ATV930 wall mount 30 kW 380...480 V light cycle Variable speed drive ATV930 wall mount 5.5 kW 200...240 V light cycle Variable speed drive ATV930 wall mount 7.5 kW 200...240 V light cycle Variable speed drive ATV950 wall mount 18.5 kW 380...480 V light cycle Variable speed drive ATV950 wall mount 22 kW 380...480 V light cycle Variable speed drive ATV950 wall mount 30 kW 380...480 V light cycle Variable speed drive ATV930 wall mount 5.5 kW 200...240 V medium cycle Variable speed drive ATV930 wall mount 7.5 kW 200...240 V medium cycle Variable speed drive ATV340 15 kW 380...480 V light cycle Variable speed drive ATV340 18 kW 380...480 V light cycle Variable speed drive ATV340 22 kW 380...480 V light cycle Variable speed drive ATV320 4 kW 200...240 V Variable speed drive ATV320 5.5 kW 200...240 V Variable speed drive ATV320 15 kW 380...480 V Variable speed drive ATV930 22 kW 500...690 V light cycle Variable speed drive ATV930 30 kW 500...690 V light cycle Variable speed drive ATV930 37 kW 500...690 V light cycle Variable speed drive ATV930 30 hp 600 V light cycle Variable speed drive ATV930 40 hp 600 V light cycle Variable speed drive ATV930 50 hp 600 V light cycle
Duty cycle	Light cycle (heavy duty) <0.8 s braking with 150 % braking torque for a 40 s cycle Light cycle (normal duty) <0.8 s braking with 120 % braking torque for a 40 s cycle Medium cycle (normal duty) <4 s braking with 135 % braking torque for a 40 s cycle Medium cycle (heavy duty) <4 s braking with 165 % braking torque for a 40 s cycle
Average power available	1.1 kW 122 °F (50 °C)
Electrical connection	Terminal <= 10 mm <sup>2</sup> / AWG 8 drive Terminal <= 2.5 mm <sup>2</sup> / AWG 12 temperature control switch
Protection type	Thermal protection via drive or temperature control switch 120 °C
Width	7.48 in (190 mm)
Height	22.44 in (570 mm)
Depth	7.09 in (180 mm)
Net Weight	8.38 lb(US) (3.8 kg)

### Environment

IP Degree of Protection	IP20
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Operation	32...122 °F (0...50 °C)

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## Ordering and shipping details

Category	22209-ATV650
Discount Schedule	CP4E
GTIN	3606480802270
Returnability	No
Country of origin	DE

## Packing Units

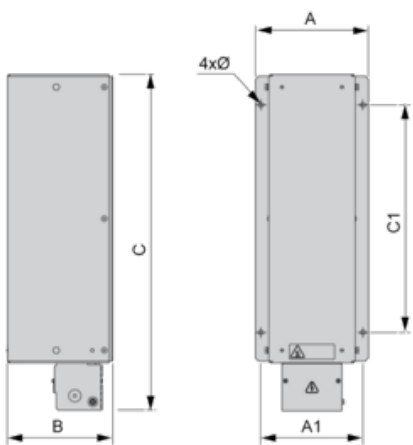
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.11 in (20.600 cm)
Package 1 Width	9.92 in (25.200 cm)
Package 1 Length	22.91 in (58.200 cm)
Package 1 Weight	9.78 lb(US) (4.434 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	97.37 lb(US) (44.164 kg)

## Offer Sustainability

California proposition 65	WARNING: 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>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>

Dimensions

Right Side and Front View



Dimensions in mm

A	B	C	A1	C1	Ø
190	180	570	170	380	6.6 x 9

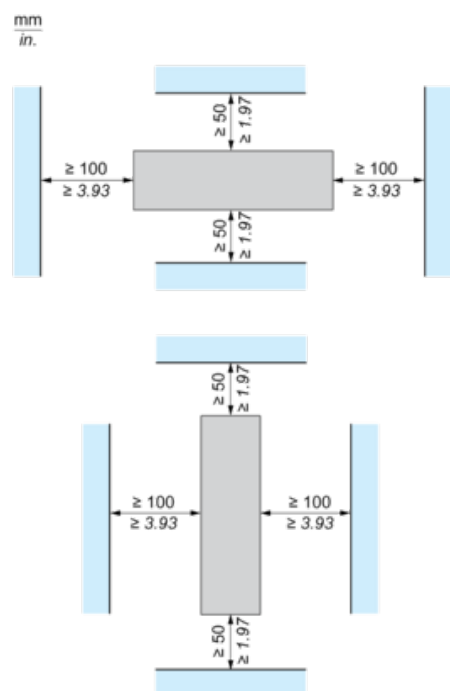
Dimensions in in.

A	B	C	A1	C1	Ø
7.48	7.09	22.44	6.69	14.96	0.26 x 0.35

Mounting and Clearance



(1) Braking resistor

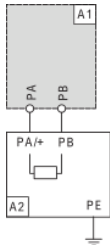


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Recommended Schema

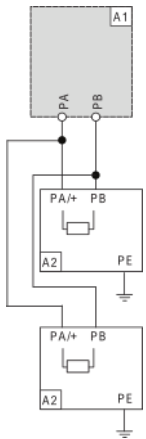
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1 Braking Resistor



A1 : Drive or external braking unit  
A2 : Braking resistor  
PA, PB : Bus DC

2 Braking Resistors



A1 : Drive or external braking unit  
A2 : Braking resistor  
PA, PB : Bus DC