

# Product data sheet

Specifications



passive filter, Altivar, 6A, 400V,  
50Hz, for variable speed drive

VW3A46120

## Main

Product Or Component Type	Passive filter
Product Specific Application	Reduction of current harmonics

## Complementary

Range Compatibility	Altivar Process ATV900 Altivar 61 Altivar 71 Altivar Process ATV600
[Us] Rated Supply Voltage	400 V +/- 10 %
Power Supply Frequency	50 Hz +/- 2 %
Quantity Per Drive	1 filter per drive for variable speed drive ATV61W motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV61W motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV61W motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV61W motor: 3 kW 1 filter per drive for variable speed drive ATV61H motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV61H motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV61H motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV61H motor: 3 kW 1 filter per drive for variable speed drive ATV71H motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV71H motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV71H motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV71H motor: 3 kW 1 filter per drive for variable speed drive ATV71P motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV71P motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV71P motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV71P motor: 3 kW 1 filter per drive for variable speed drive ATV71W motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV71W motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV71W motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV71W motor: 3 kW 1 filter per drive for variable speed drive ATV630 wall mount, motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV630 wall mount, motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV630 wall mount, motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV630 wall mount, motor: 3 kW 1 filter per drive for variable speed drive ATV650 wall mount, motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV650 wall mount, motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV650 wall mount, motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV650 wall mount, motor: 3 kW 1 filter per drive for variable speed drive ATV930 wall mount, motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV930 wall mount, motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV930 wall mount, motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV930 wall mount, motor: 3 kW 1 filter per drive for variable speed drive ATV950 wall mount, motor: 0.75 kW/1 hp 1 filter per drive for variable speed drive ATV950 wall mount, motor: 1.5 kW/2 hp 1 filter per drive for variable speed drive ATV950 wall mount, motor: 2.2 kW/3 hp 1 filter per drive for variable speed drive ATV950 wall mount, motor: 3 kW
[In] Rated Current	6 A for input 6.2 A for output
Network Number Of Phases	3 phases

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

Thdi	10 % for variable speed drive ATV61H motor: 0.75 kW/1 hp 10 % for variable speed drive ATV61H motor: 1.5 kW/2 hp 10 % for variable speed drive ATV61H motor: 2.2 kW/3 hp 10 % for variable speed drive ATV61H motor: 3 kW 10 % for variable speed drive ATV71H motor: 0.75 kW/1 hp 10 % for variable speed drive ATV71H motor: 1.5 kW/2 hp 10 % for variable speed drive ATV71H motor: 2.2 kW/3 hp 10 % for variable speed drive ATV71H motor: 3 kW 10 % for variable speed drive ATV71P motor: 0.75 kW/1 hp 10 % for variable speed drive ATV71P motor: 1.5 kW/2 hp 10 % for variable speed drive ATV71P motor: 2.2 kW/3 hp 10 % for variable speed drive ATV71P motor: 3 kW 10 % for variable speed drive ATV71W motor: 0.75 kW/1 hp 10 % for variable speed drive ATV71W motor: 1.5 kW/2 hp 10 % for variable speed drive ATV71W motor: 2.2 kW/3 hp 10 % for variable speed drive ATV71W motor: 3 kW 5 % for variable speed drive ATV61W motor: 0.75 kW/1 hp 5 % for variable speed drive ATV61W motor: 1.5 kW/2 hp 5 % for variable speed drive ATV61W motor: 2.2 kW/3 hp 5 % for variable speed drive ATV61W motor: 3 kW 5 % for variable speed drive ATV630 motor: 0.75 kW/1 hp 5 % for variable speed drive ATV630 motor: 1.5 kW/2 hp 5 % for variable speed drive ATV630 motor: 2.2 kW/3 hp 5 % for variable speed drive ATV630 motor: 3 kW 5 % for variable speed drive ATV650 motor: 0.75 kW/1 hp 5 % for variable speed drive ATV650 motor: 1.5 kW/2 hp 5 % for variable speed drive ATV650 motor: 2.2 kW/3 hp 5 % for variable speed drive ATV650 motor: 3 kW 5 % for variable speed drive ATV930 motor: 0.75 kW/1 hp 5 % for variable speed drive ATV930 motor: 1.5 kW/2 hp 5 % for variable speed drive ATV930 motor: 2.2 kW/3 hp 5 % for variable speed drive ATV930 motor: 3 kW 5 % for variable speed drive ATV950 motor: 0.75 kW/1 hp 5 % for variable speed drive ATV950 motor: 1.5 kW/2 hp 5 % for variable speed drive ATV950 motor: 2.2 kW/3 hp 5 % for variable speed drive ATV950 motor: 3 kW
Max Current	1.5 x nominal current (duration = 60 s)
Efficiency	98 %
Thermal Losses	88 W
Cos Phi	1 (150 % of line current) 0.85 (75 % of line current) 0.99 (100 % of line current)
Electrical Connection	X1-1...X2-3 terminal, connection capacity: 0.5...10 mm² A, B terminal, connection capacity: 2.5 mm²
Electrical Insulation Class	Class F
Net Weight	16 kg

## Environment

Ip Degree Of Protection	IP20 IP55 (enclosure mounting)
Vibration Resistance	2 mm peak to peak (f= 5...13.2 Hz) conforming to IEC 60068-2-6 0.7 gn (f= 13.2...150 Hz) conforming to IEC 60068-2-6
Relative Humidity	5...85 % without condensation
Ambient Air Temperature For Operation	45...60 °C (with current derating 3 % per °C) 5...45 °C (without current derating)
Ambient Air Temperature For Storage	-25...55 °C storage in original packaging -25...65 °C during transport
Operating Altitude	<= 1000 m without current derating > 1000...4000 m with current derating 5 % per 1000 m

Standards	G5/4 engineering recommendation
	IEC 61000-3-4
	IEC 61000-3-12
	IEC 61000-2-4
	IEC 61000-2-2
	IEC 61000-3-2

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	56.0 cm
Package 1 Width	40.0 cm
Package 1 Length	60.0 cm
Package 1 Weight	23.5 kg

## 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-CO<sub>2</sub> 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 >](#)

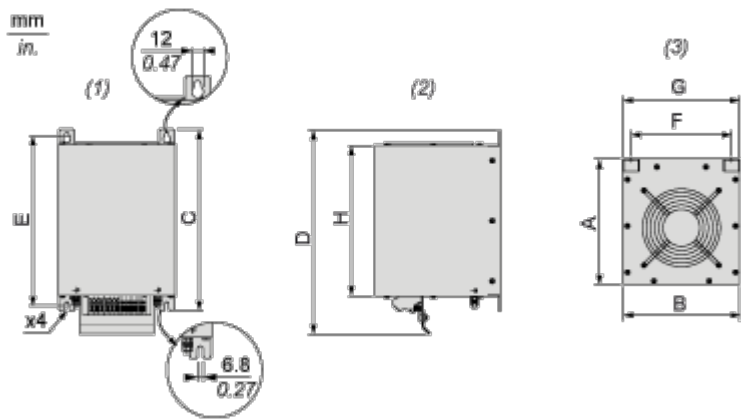
[Guide to assess a product's sustainability >](#)

## Well-being performance

✓	Reach Free Of Svhc	
✓	Toxic Heavy Metal Free	
✓	Mercury Free	
✓	Rohs Exemption Information	Yes
Reach Regulation		<a href="#">REACH Declaration</a>
Eu Rohs Directive		Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation		<a href="#">China RoHS declaration</a>
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="#">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Dimensions



- (1) Front view
- (2) Right side view
- (3) Top view

Dimensions in mm

A	B	C	D	E	F	G	H
205.5	190	295	332.11	276	163	188	246

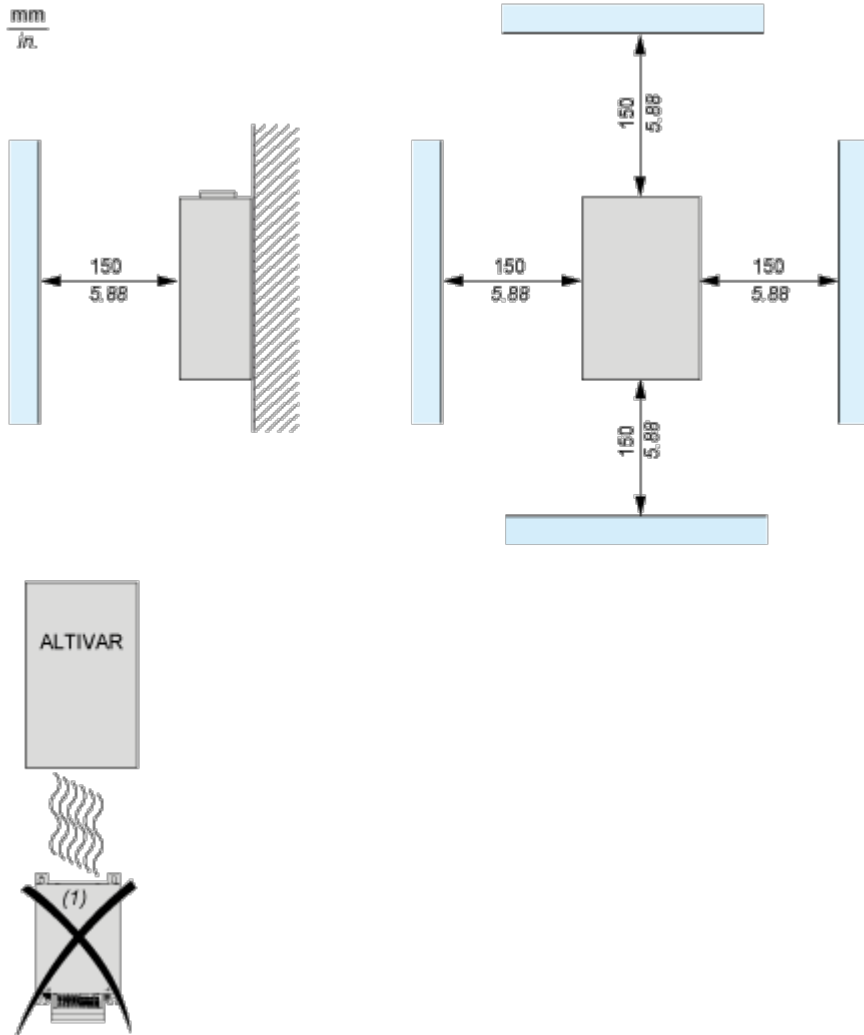
Dimensions in in.

A	B	C	D	E	F	G	H
8.09	7.48	11.61	13.07	10.87	6.42	7.40	9.69

## Mounting and Clearance

## Mounting Recommendations

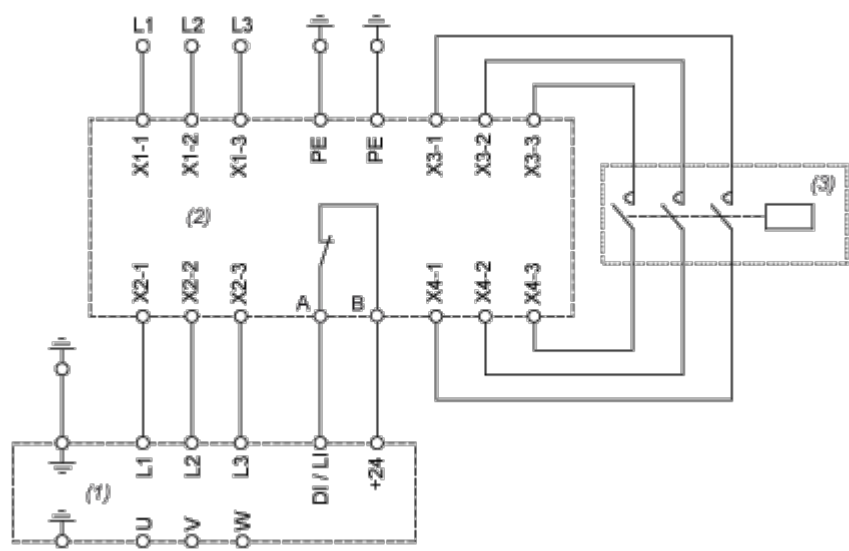
### Vertical Mounting Only



(1) Filter

Connections and Schema

Recommended Schema



- (1) Drive
- (2) Filter
- (3) Optional