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Product datasheet

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

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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

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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

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Environmental Data

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 Packaging

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**

Use Again

Repack and remanufacture

Take-back	**No**

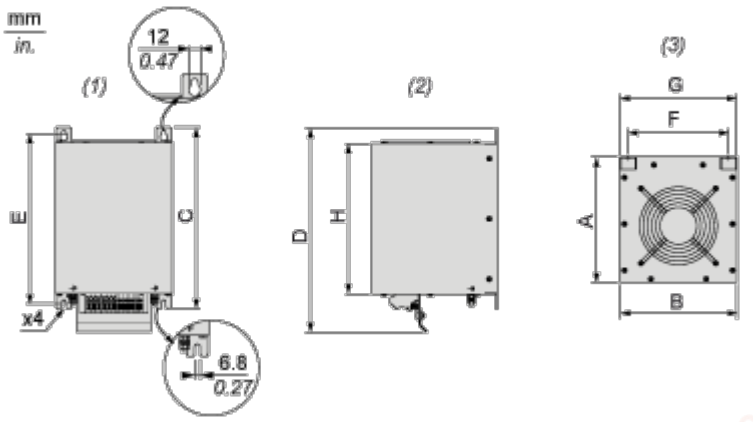
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Dimensions Drawings

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

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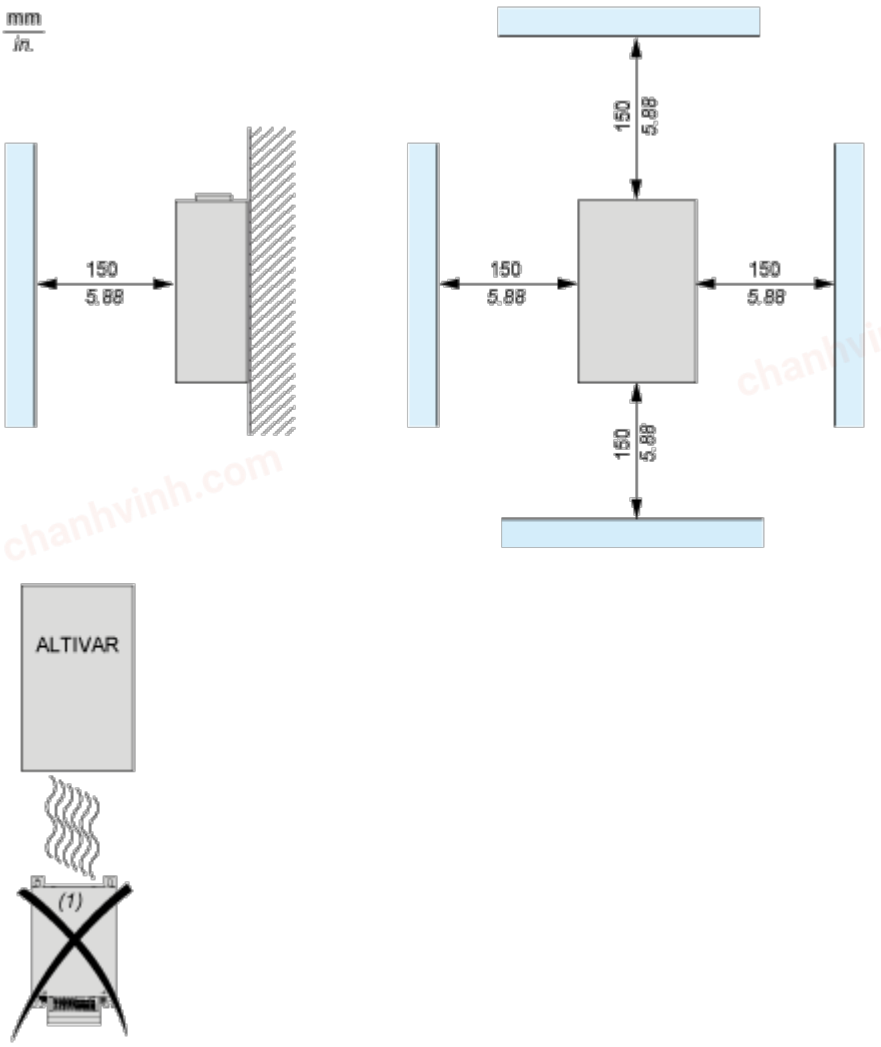
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Mounting and Clearance

Mounting Recommendations

Vertical Mounting Only



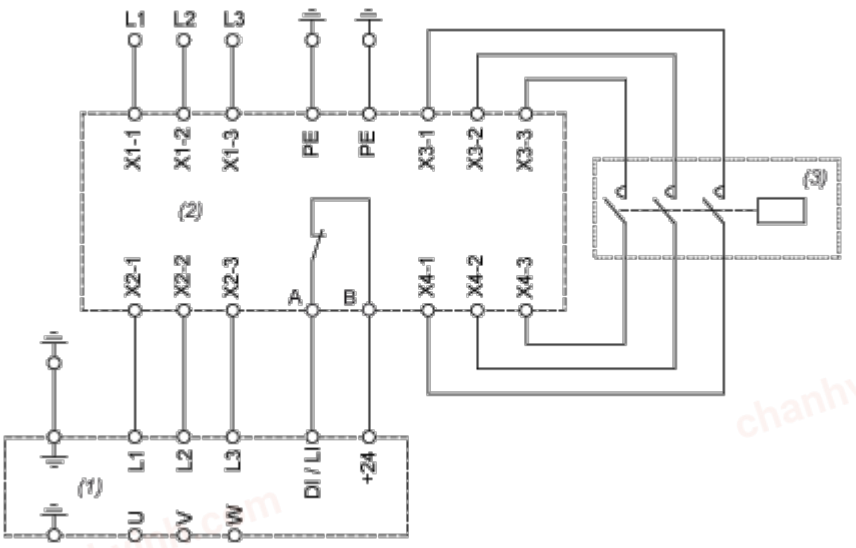
(1) Filter

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Connections and Schema

Recommended Schema



(1) Drive

(2) Filter

(3) Optional

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