



## Main

|                              |                                |
|------------------------------|--------------------------------|
| Product or component type    | Passive filter                 |
| Product specific application | Reduction of current harmonics |

## Complementary

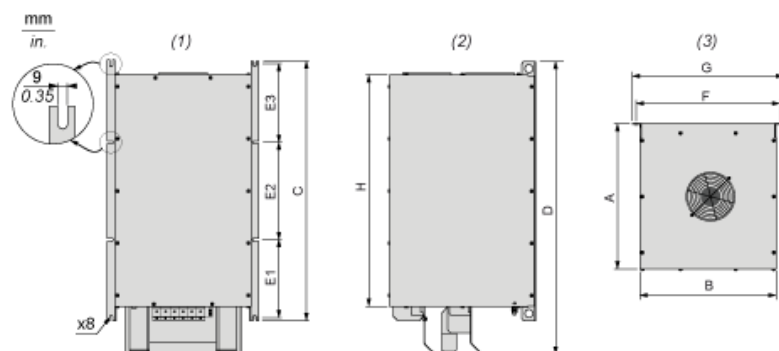
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range compatibility       | Altivar 61<br>Altivar 71<br>Altivar Process ATV600<br>Altivar Process ATV900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Us] rated supply voltage | 400 V (+/- 10 %)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power supply frequency    | 50 Hz (tolerance: +/- 2 %)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Quantity per drive        | 1 filter per drive for variable speed drive ATV930 wall mount, motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV950 wall mount, motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV630 wall mount, motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV650 wall mount, motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV71Q motor: 90 kW / 125 hp<br>1 filter per drive for variable speed drive ATV71W motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV71H motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV61H motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV71H motor: 90 kW / 125 hp<br>1 filter per drive for variable speed drive ATV61W motor: 90 kW / 125 hp<br>1 filter per drive for variable speed drive ATV61W motor: 75 kW / 100 hp<br>1 filter per drive for variable speed drive ATV61H motor: 90 kW / 125 hp |
| [In] rated current        | 150 A for output<br>144 A for input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Network number of phases  | 3 phases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| THDI                      | 5 % for variable speed drive ATV930 motor: 75 kW / 100 hp<br>5 % for variable speed drive ATV950 motor: 75 kW / 100 hp<br>5 % for variable speed drive ATV630 motor: 75 kW / 100 hp<br>5 % for variable speed drive ATV650 motor: 75 kW / 100 hp<br>5 % for variable speed drive ATV71Q motor: 90 kW / 125 hp<br>5 % for variable speed drive ATV71H motor: 90 kW / 125 hp<br>5 % for variable speed drive ATV61W motor: 90 kW / 125 hp<br>5 % for variable speed drive ATV61W motor: 75 kW / 100 hp<br>5 % for variable speed drive ATV61H motor: 90 kW / 125 hp<br>10 % for variable speed drive ATV71W motor: 75 kW / 100 hp<br>10 % for variable speed drive ATV71H motor: 75 kW / 100 hp<br>10 % for variable speed drive ATV61H motor: 75 kW / 100 hp                                                                                                                                                                                                                                  |
| Max current               | 1.5 x nominal current (duration = 60 s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Efficiency                | <= 98 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Thermal losses            | 962 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cos phi                   | 0.99 at 100 % of line current<br>0.85 at 75 % of line current<br>1 at 150 % of line current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Electrical connection     | X1-1...X2-3 terminal, connection capacity: 2.5...90 mm <sup>2</sup><br>A, B terminal, connection capacity: 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                             |         |
|-----------------------------|---------|
| Electrical insulation class | Class F |
| Product weight              | 126 kg  |

## Environment

|                                       |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP55 (enclosure mounting)<br>IP20                                                                                                    |
| Vibration resistance                  | 0.7 gn (f = 13.2...150 Hz) conforming to EN 60068-2-6<br>2 mm peak to peak (f = 5...13.2 Hz) conforming to EN 60068-2-6              |
| Relative humidity                     | 5...85 % without condensation                                                                                                        |
| Ambient air temperature for operation | 5...45 °C without current derating<br>> 45...60 °C with current derating 3 % per °C                                                  |
| Ambient air temperature for storage   | > -25...65 °C during transport<br>> -25...55 °C storage in original packaging                                                        |
| Operating altitude                    | > 1000...4000 m with current derating 5 % per 1000 m<br><= 1000 m without current derating                                           |
| Standards                             | EN/IEC 61000-3-2<br>EN/IEC 61000-3-12<br>EN/IEC 61000-3-4<br>EN/IEC 61000-2-2<br>EN/IEC 61000-2-4<br>G5/4 engineering recommendation |

## Dimensions



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

Dimensions in mm

| A   | B   | C   | D     | E1  | E2  | E3  | F   | G   | H   |
|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| 400 | 370 | 685 | 767.6 | 212 | 240 | 212 | 393 | 418 | 598 |

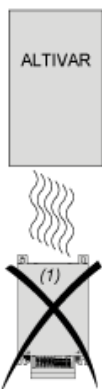
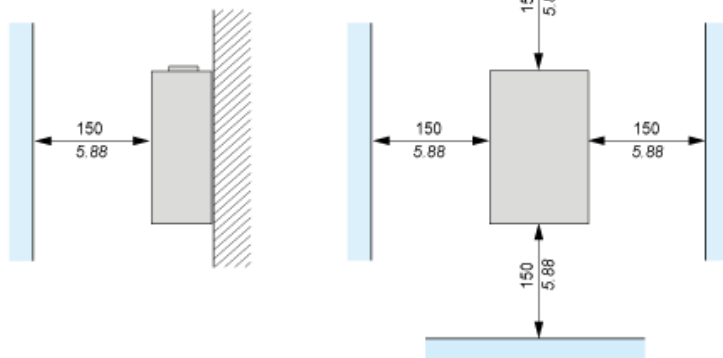
Dimensions in in.

| A     | B     | C     | D     | E1   | E2   | E3   | F     | G     | H     |
|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 15.75 | 14.57 | 26.97 | 30.22 | 8.35 | 9.45 | 8.35 | 15.47 | 16.46 | 23.54 |

## Mounting Recommendations

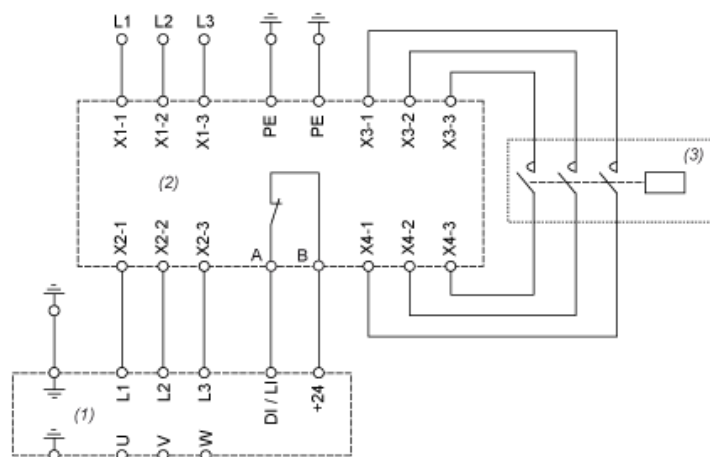
### Vertical Mounting Only

mm  
in.



(1) Filter

## Recommended Schema



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