

## Main

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

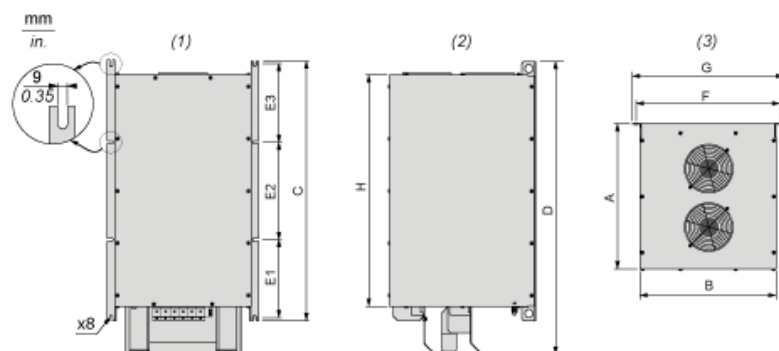
## Complementary

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range compatibility         | Altivar 61<br>Altivar 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Us] rated supply voltage   | 480 V (+/- 10 %)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power supply frequency      | 60 Hz (tolerance: +/- 2 %)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Quantity per drive          | 2 filters per drive for variable speed drive ATV61H motor: 250 kW / 400 hp<br>1 filter per drive for variable speed drive ATV71Q motor: 220 kW / 350 hp<br>1 filter per drive for variable speed drive ATV61Q motor: 220 kW / 350 hp<br>2 filters per drive for variable speed drive ATV71H motor: 250 kW / 400 hp<br>3 filters per drive for variable speed drive ATV61Q motor: 560 kW / 800 hp<br>3 filters per drive for variable speed drive ATV61H motor: 560 kW / 800 hp<br>2 filters per drive for variable speed drive ATV61Q motor: 280 kW / 450 hp<br>2 filters per drive for variable speed drive ATV71H motor: 280 kW / 450 hp<br>2 filters per drive for variable speed drive ATV61H motor: 280 kW / 450 hp |
| [In] rated current          | 436 A for input<br>450 A for output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Network number of phases    | 3 phases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| THDI                        | 5 % for variable speed drive ATV61H motor: 250 kW / 400 hp<br>5 % for variable speed drive ATV71Q motor: 220 kW / 350 hp<br>5 % for variable speed drive ATV61Q motor: 220 kW / 350 hp<br>5 % for variable speed drive ATV71H motor: 250 kW / 400 hp<br>5 % for variable speed drive ATV61Q motor: 560 kW / 800 hp<br>5 % for variable speed drive ATV61H motor: 560 kW / 800 hp<br>5 % for variable speed drive ATV61Q motor: 280 kW / 450 hp<br>5 % for variable speed drive ATV71H motor: 280 kW / 450 hp<br>5 % for variable speed drive ATV61H motor: 280 kW / 450 hp                                                                                                                                               |
| Max current                 | 1.5 x nominal current (duration = 60 s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Efficiency                  | <= 98 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Thermal losses              | 1852 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: 25...300 mm <sup>2</sup><br>A, B terminal, connection capacity: 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Electrical insulation class | Class F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product weight              | 272 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   |
|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|
| 510 | 420 | 800 | 900.06 | 240 | 300 | 240 | 443 | 468 | 713 |

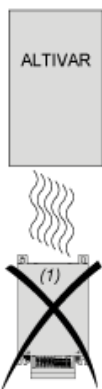
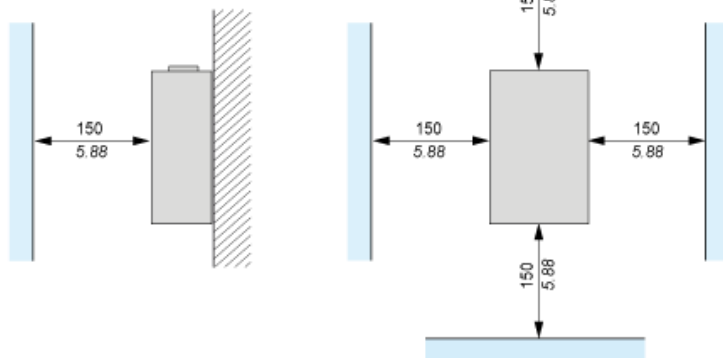
Dimensions in in.

| A     | B     | C     | D     | E1   | E2    | E3   | F     | G     | H     |
|-------|-------|-------|-------|------|-------|------|-------|-------|-------|
| 20.00 | 16.54 | 31.50 | 35.43 | 9.45 | 11.81 | 9.45 | 17.44 | 18.43 | 28.07 |

## Mounting Recommendations

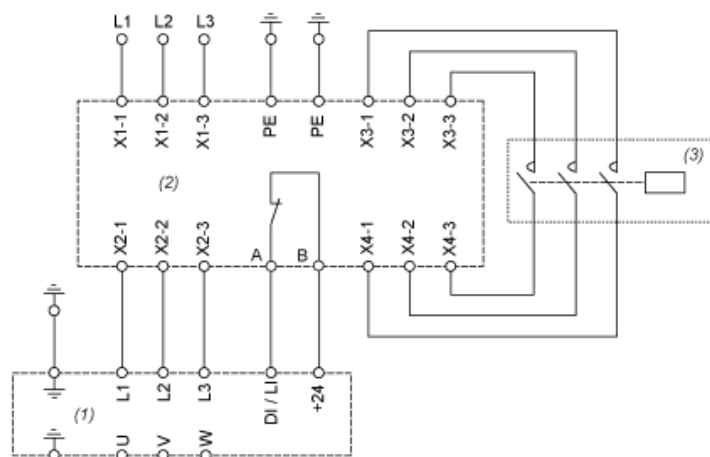
### Vertical Mounting Only

mm  
in.



(1) Filter

## Recommended Schema



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