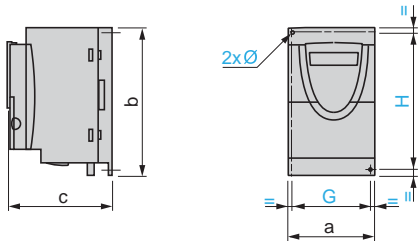
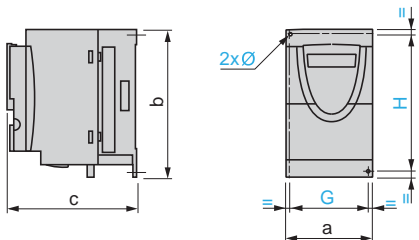


**ATV 11HU05●●E/U/A, ATV 11PU●●●●E/U/A**



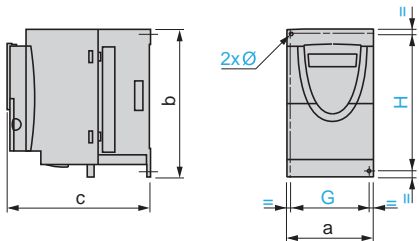
| ATV 11                  | a  | b   | c   | G    | H     | Ø |
|-------------------------|----|-----|-----|------|-------|---|
| HU05●●E/U,<br>PU●●●●E/U | 72 | 142 | 101 | 60±1 | 131±1 | 5 |
| HU05●●A,<br>PU●●●●A     | 72 | 142 | 108 | 60±1 | 131±1 | 5 |

**ATV 11HU09●●U/A**



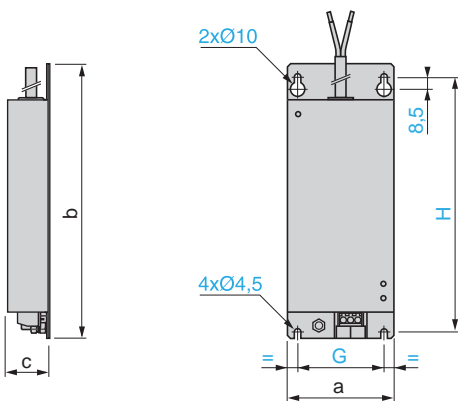
| ATV 11  | a  | b   | c   | G    | H     | Ø |
|---------|----|-----|-----|------|-------|---|
| HU09●●U | 72 | 142 | 125 | 60±1 | 131±1 | 5 |
| HU09●●A | 72 | 142 | 132 | 60±1 | 131±1 | 5 |

**ATV 11HU18M●U/A**



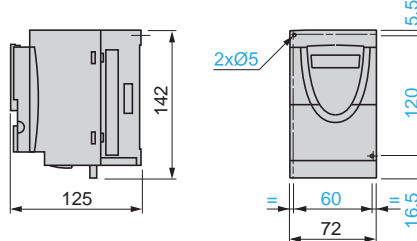
| ATV 11  | a  | b   | c   | G    | H     | Ø |
|---------|----|-----|-----|------|-------|---|
| HU18M●U | 72 | 147 | 138 | 60±1 | 131±1 | 5 |
| HU18M●A | 72 | 142 | 145 | 60±1 | 131±1 | 5 |

**EMC input filters VW3 A11401 to A11404**

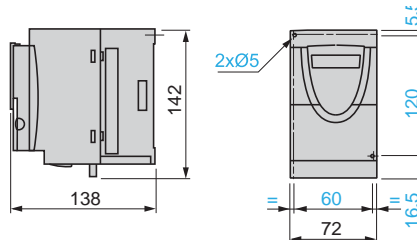


| VW3    | a   | b   | c  | G  | H   |
|--------|-----|-----|----|----|-----|
| A11401 | 75  | 194 | 30 | 61 | 180 |
| A11402 | 117 | 184 | 40 | 97 | 170 |
| A11403 | 75  | 194 | 40 | 61 | 180 |
| A11404 | 117 | 190 | 40 | 97 | 170 |

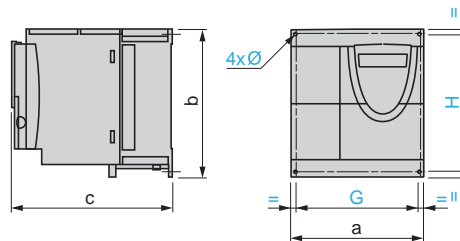
**ATV 11HU09M2E**



**ATV 11HU12M2E, ATV 11HU18M2E**

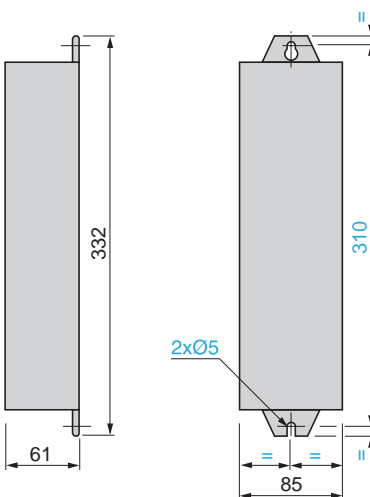


**ATV 11HU18F1U/A, ATV 11HU29M●E/U/A, ATV 11HU41M●E/U/A**



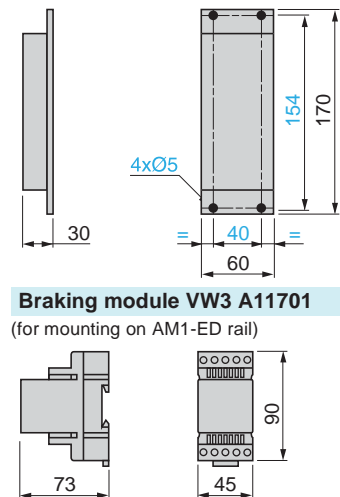
| ATV 11                        | a   | b   | c   | G       | H     | Ø |
|-------------------------------|-----|-----|-----|---------|-------|---|
| HU18F1U, HU29M●E/U, HU41M●E/U | 117 | 142 | 156 | 106±0,5 | 131±1 | 5 |
| HU18F1A, HU29M●A, HU41M●A     | 117 | 142 | 163 | 106±0,5 | 131±1 | 5 |

**Protected braking resistors  
VW3 A58732 and A58733**



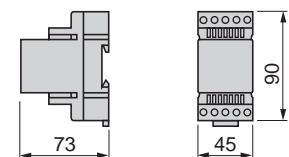
**Non protected braking resistors VW3  
A58702 and A58704**

(2-wire output, length 0.5 m)

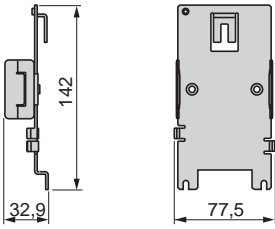


**Braking module VW3 A11701**

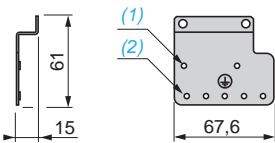
(for mounting on AM1-ED rail)



### ATV 08 adaptor plate VW3 A11811



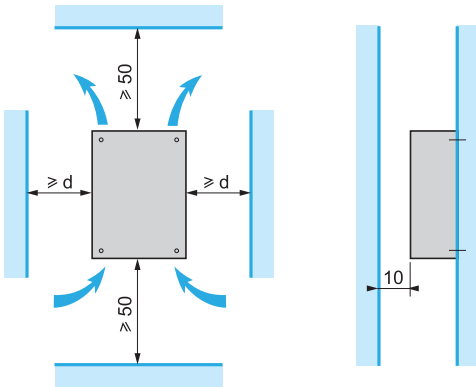
### EMC earthing plate VW3 A11831



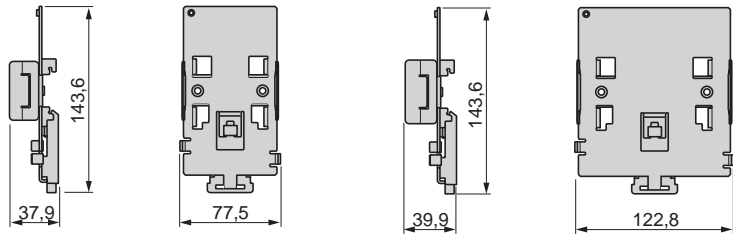
- (1) 2 screws supplied for fixing the earthing plate.
- (2) 5 x Ø 4 mm screws for fixing EMC clamps.

### Mounting recommendations

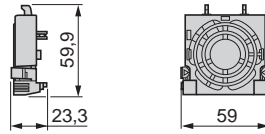
- Install the unit vertically, at  $\pm 10^\circ$ .
- Do not place it close to heating elements.
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate, by natural convection or by ventilation, from the bottom to the top of the unit.
- Free space in front of unit: 10 mm minimum.



### Plates for mounting on rail VW3 A11851 and A11852



### Ventilation kit VW3 A11821



#### -10 °C to 40 °C

$d \geq 50$  mm: no special precautions.

$d = 0$  (mounted side by side): remove the protective cover from the top of the drive

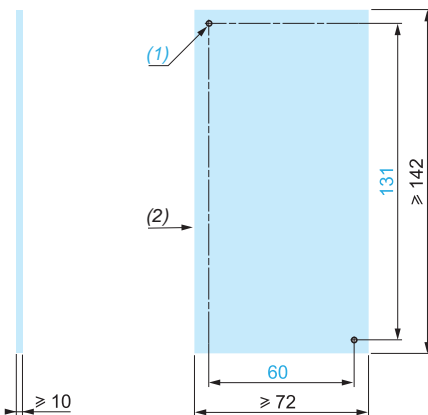
#### 40 °C to 50 °C

$d \geq 50$  mm: remove the protective cover from the top of the drive

#### 50 °C to 60 °C

$d \geq 50$  mm: remove the protective cover from the top of the drive, and derate the nominal current of the drive by 2.2% per °C above 50 °C.

### Recommendations for mounting on a machine frame (specific to ATV 11PU●●●●● drives)



- (1) 2 x Ø M5 tapped holes.
- (2) Minimum machined area

ATV 11P●●●●● drives can be mounted on (or in) a steel or aluminium machine frame, observing the following conditions:

- Maximum ambient temperature: 40 °C
- Vertical mounting  $\pm 10^\circ$
- The drive must be fixed at the centre of a support (frame) which is a minimum of 10 mm thick and with a minimum cooling area of 0.12 m<sup>2</sup> for steel and 0.09 m<sup>2</sup> for aluminium, exposed to the open air.
- Support area for the drive (142 x 72 min) machined on the frame with a surface smoothness of 100 µm max and an unevenness of 3.2 µm max
- Mill the tapped holes lightly in order to remove any burrs.
- Coat the whole drive support area with thermal contact grease (or equivalent).

When the operating conditions are close to the maximum limits (power, cycle and temperature), this type of use must be checked beforehand, by monitoring the thermal state of the drive.