

## VW3A7105

braking unit - 100 kW - 400/480 V - for variable speed drive



### Main

Product or component type	Resistance braking unit
Range compatibility	Altivar Process ATV900
Maximum braking power	160 kW
Product compatibility	Variable speed drive ATV930 without braking chopper 110 kW 380...480 V Variable speed drive ATV930 without braking chopper 130 kW 380...480 V Variable speed drive ATV930 without braking chopper 160 kW 380...480 V
Thermal losses	400 W
Activation threshold	780 V DC +/- 1 %
Permanent braking power	100 kW (at constant power and at engage threshold)
Protection type	Integrated thermal protection by thermal probe
Minimum resistor value to associate	2.5 Ohm

### Complementary

Electrical connection	Cable, connection capacity: 2 x 120 mm <sup>2</sup> , 2 x 250 kcmil <= 5 m between drive and braking unit Cable, connection capacity: 2 x 120 mm <sup>2</sup> , 2 x 250 kcmil <= 10 m between braking unit and braking resistors
Maximum DC bus voltage	850 V
Load factor	0.05 for 320 kW at constant power and at engage threshold 0.15 for 250 kW at constant power and at engage threshold 0.5 for 200 kW at constant power and at engage threshold 1 for 160 kW at constant power and at engage threshold
Cycle time	<= 240 s
Volume of cooling air	166 m <sup>3</sup> /h
Operating position	Vertical +/- 10 degree
Mechanical robustness	Vibrations class 3M4 conforming to IEC 60721-3-3
Product weight	17 kg
Width	216 mm
Height	658 mm
Depth	303 mm

### Environment

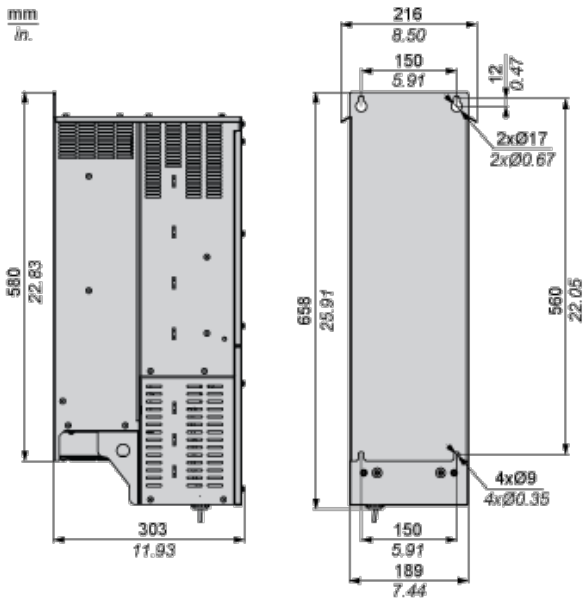
ambient air temperature for operation	-10...50 °C
ambient air temperature for storage	-40...70 °C
IP degree of protection	IP20 IP21 on top
environmental characteristic	Chemical pollution resistance class 3C3 conforming to IEC 60721-3-3 Dust pollution resistance class 3S3 conforming to IEC 60721-3-3 Humidity resistant class 3K3 conforming to IEC 60721-3-3
relative humidity	5...95 % without condensation
operating altitude	<= 1000 m without derating 1000...4000 m with current derating 1 % per 100 m

### Offer Sustainability

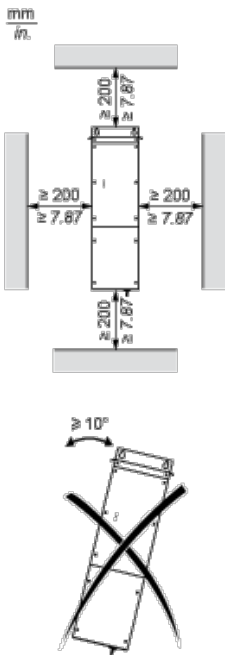
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1545 - Schneider Electric declaration of conformity

## Dimensions

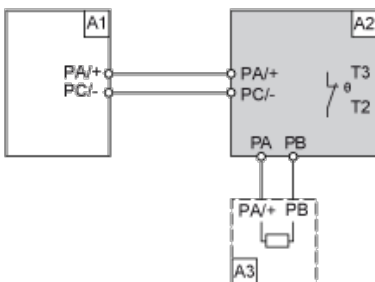
### Left Side and Rear View



## Mounting and Clearance



## Recommended Schema



A1 : Drive

A2 : Braking unit

A3 : Braking resistor

PA, DC Bus

PB,

PC :

T2, Thermal relay

T3 :