Product data sheet
Characteristics

VW3A7105
braking unit - 100 kW - 400/480 V - for variable speed drive

Main

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 mm², 2 x 250 kcmil <5 m between drive and braking unit Cable, connection capacity: 2 x 120 mm², 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
Maximum cycle time	240 s
Volume of cooling air	166 m3/h
Operating position	Vertical +/- 10 degree
Mechanical robustness	Vibrations class 3M4 conforming to IEC 60721-3-3
Net weight	17 kg
Width	216 mm
Height	658 mm
Depth	303 mm

Environment

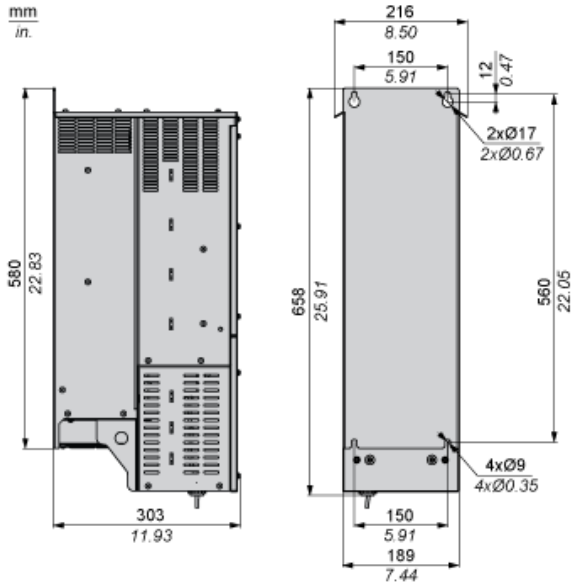
Ambient air temperature for operation	-10…50 °C
Ambient air temperature for storage	-40…70 °C
IP degree of protection	IP20 IP21 (on top)
Environmental characteristic	Chemical pollution resistance class 3C3 conforming to IEC 60721-3-3 Dust pollution resistance class 3S3 conforming to IEC 60721-3-3 Humidity 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

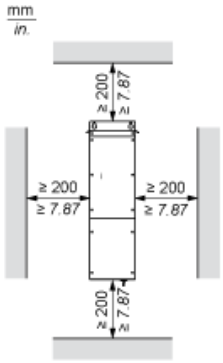
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration

Dimensions

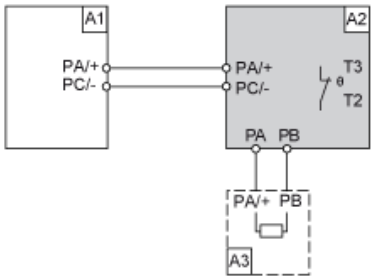
Left Side and Rear View



Mounting and Clearance



Recommended Schema



A1 : Drive
A2 : Braking unit
A3 : Braking resistor
PA, DC Bus
PB,
PC :
T2, Thermal relay
T3 :