Specifications



variable speed drive, Altivar 212, 1.5kW, 2hp, 480V, 3 phases, with EMC class C2, IP55

ATV212WU15N4

Main

Device Short Name	ATV212			
Product Destination	Asynchronous motors			
Network Number Of Phases	3 phases			
Motor Power Kw	1.5 kW			
Motor Power Hp	2 hp			
Supply Voltage Limits	323528 V			
Supply Frequency	5060 Hz - 55 %			
Line Current	2.5 A at 480 V 3.2 A at 380 V			
Range Of Product	Altivar 212			
Product Or Component Type	Variable speed drive			
Product Specific Application	Pumps and fans in HVAC			
Communication Port Protocol	METASYS N2 APOGEE FLN Modbus BACnet LonWorks			
[Us] Rated Supply Voltage	380480 V - 1510 %			
Emc Filter	Class C2 EMC filter integrated			
Ip Degree Of Protection	IP55			

Complementary

Apparent Power	2.8 kVA at 380 V			
Continuous Output Current	3.7 A at 380 V 3.7 A at 460 V			
Maximum Transient Current	4 A for 60 s			
Speed Drive Output Frequency	0.5200 Hz			
Speed Range	110			
Speed Accuracy	+/- 10 % of nominal slip 0.2 Tn to Tn			
Local Signalling	1 LED (red) for DC bus energized			
Output Voltage	<= power supply voltage			
Isolation	Electrical between power and control			
Type Of Cable	Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 90 °C / XLPE/EPR Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / PVC With UL Type 1 kit: 3 wire(s)UL 508 cable at 40 °C, copper 75 °C / PVC			

Electrical Connection	VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES: terminal 2.5 mm ² / AWG 14 L1/R, L2/S, L3/T: terminal 6 mm ² / AWG 10			
Tightening Torque	1.3 N.m, 11.5 lb.in (L1/R, L2/S, L3/T) 0.6 N.m (VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES)			
Supply	Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V DC +/- 5 %, < A, protection type: overload and short-circuit protection Internal supply: 24 V DC (2127 V), <200 A, protection type: overload and short- circuit protection			
Sampling Duration	2 ms +/- 0.5 ms F discrete 2 ms +/- 0.5 ms R discrete 2 ms +/- 0.5 ms RES discrete 3.5 ms +/- 0.5 ms VIA analog 22 ms +/- 0.5 ms VIB analog			
Response Time	FM 2 ms, tolerance +/- 0.5 ms for analog output(s) FLA, FLC 7 ms, tolerance +/- 0.5 ms for discrete output(s) FLB, FLC 7 ms, tolerance +/- 0.5 ms for discrete output(s) RY, RC 7 ms, tolerance +/- 0.5 ms for discrete output(s)			
Accuracy	+/- 0.6 % (VIA) for a temperature variation 60 °C +/- 0.6 % (VIB) for a temperature variation 60 °C +/- 1 % (FM) for a temperature variation 60 °C			
Linearity Error	VIA: +/- 0.15 % of maximum value for input VIB: +/- 0.15 % of maximum value for input FM: +/- 0.2 % for output			
Analogue Output Type	FM switch-configurable voltage 010 V DC, impedance: 7620 Ohm, resolution 10 bits FM switch-configurable current 020 mA, impedance: 970 Ohm, resolution 10 bits			
Discrete Output Type	Configurable relay logic: (FLA, FLC) NO - 100000 cycles Configurable relay logic: (FLB, FLC) NC - 100000 cycles Configurable relay logic: (RY, RC) NO - 100000 cycles			
Minimum Switching Current	3 mA at 24 V DC for configurable relay logic			
Maximum Switching Current	5 A at 250 V AC on resistive load - cos phi = 1 - L/R = 0 ms (FL, R) 5 A at 30 V DC on resistive load - cos phi = 1 - L/R = 0 ms (FL, R) 2 A at 250 V AC on inductive load - cos phi = 0.4 - L/R = 7 ms (FL, R) 2 A at 30 V DC on inductive load - cos phi = 0.4 - L/R = 7 ms (FL, R)			
Discrete Input Type	F programmable 24 V DC, with level 1 PLC, impedance: 4700 Ohm R programmable 24 V DC, with level 1 PLC, impedance: 4700 Ohm RES programmable 24 V DC, with level 1 PLC, impedance: 4700 Ohm			
Discrete Input Logic	Positive logic (source) (F, R, RES), <= 5 V (state 0), >= 11 V (state 1) Negative logic (sink) (F, R, RES), >= 16 V (state 0), <= 10 V (state 1)			
Dielectric Strength	3535 V DC between earth and power terminals 5092 V DC between control and power terminals			
Insulation Resistance	>= 1 mOhm 500 V DC for 1 minute			
Frequency Resolution	Display unit: 0.1 Hz Analog input: 0.024/50 Hz			
Communication Service	Monitoring inhibitable Read holding registers (03) 2 words maximum Read device identification (43) Write multiple registers (16) 2 words maximum Time out setting from 0.1 to 100 s Write single register (06)			
Option Card	Communication card for LonWorks			
Functionality	Mid			
Specific Application	HVAC			
Discrete Output Number	2			
Analogue Input Number	2			

Analogue Input Type Analogue Output Number Physical Interface Connector Type Transmission Rate Transmission Rate Transmission Frame Number Of Addresses Data Format Type Of Polarization Asynchronous Motor Control Profile Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Braking To Standstill Network Frequency Prospective Line Isc	VIA switch-configurable voltage: 010 V DC 24 V max, impedance: 30000 Ohm, resolution 10 bitsVIB configurable voltage: 010 V DC 24 V max, impedance: 30000 Ohm, resolution 10 bitsVIB configurable PTC probe: 06 probes, impedance: 1500 OhmVIB configurable PTC probe: 06 probes, impedance: 250 Ohm, resolution 10 bits12-wire RS 4851 open style1 RJ459600 bps or 19200 bpsRTU12478 bits, 1 stop, odd even or no configurable parityNo impedanceVoltage/frequency ratio, 5 pointsVoltage/frequency ratio, 5 pointsVoltage/frequency ratio, 2 pointsVoltage/frequency ratio, 2 points+/- 15 %120 % of nominal motor torque +/- 10 % for 60 sLinear adjustable separately from 0.01 to 3200 sAutomatic based on the load
Physical Interface Connector Type Transmission Rate Transmission Frame Number Of Addresses Data Format Type Of Polarization Asynchronous Motor Control Profile Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	VIB configurable PTC probe: 06 probes, impedance: 1500 Ohm VIA switch-configurable current: 020 mA, impedance: 250 Ohm, resolution 10 bits 1 2-wire RS 485 1 open style 1 RJ45 9600 bps or 19200 bps RTU 1247 8 bits, 1 stop, odd even or no configurable parity No impedance Voltage/frequency ratio, 5 points Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, standard Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
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Number Of Addresses Data Format Type Of Polarization Asynchronous Motor Control Profile Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	1247 8 bits, 1 stop, odd even or no configurable parity No impedance Voltage/frequency ratio, 5 points Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, standard Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
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Type Of Polarization Asynchronous Motor Control Profile Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	No impedance Voltage/frequency ratio, 5 points Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, standard Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
Asynchronous Motor Control Profile Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	Voltage/frequency ratio, 5 points Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, standard Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
Profile Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, standard Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
Torque Accuracy Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, standard Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
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Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	Voltage/frequency ratio, 2 points +/- 15 % 120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
Transient Overtorque Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	120 % of nominal motor torque +/- 10 % for 60 s Linear adjustable separately from 0.01 to 3200 s
Acceleration And Deceleration Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	Linear adjustable separately from 0.01 to 3200 s
Ramps Motor Slip Compensation Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	
Switching Frequency Nominal Switching Frequency Braking To Standstill Network Frequency	
Nominal Switching Frequency Braking To Standstill Network Frequency	Adjustable Not available in voltage/frequency ratio motor control Automatic whatever the load
Braking To Standstill Network Frequency	616 kHz adjustable 1216 kHz with derating factor
Network Frequency	12 kHz
	By DC injection
Prospective Line Isc	47.563 Hz
	5 kA
Protection Type	Overheating protection: drive
	Thermal power stage: drive
	Short-circuit between motor phases: drive
	Input phase breaks: drive Overcurrent between output phases and earth: drive
	Overvoltages on the DC bus: drive
	Break on the control circuit: drive
	Against exceeding limit speed: drive
	Line supply overvoltage and undervoltage: drive Line supply undervoltage: drive
	Against input phase loss: drive
	Thermal protection: motor
	Motor phase break: motor With PTC probes: motor
Width	215 mm
Height	297 mm
Depth	
Net Weight	192 mm

Environment

Pollution Degree

Ip Degree Of Protection	IP55 conforming to IEC 61800-5-1 IP55 conforming to IEC 60529			
Vibration Resistance	1.5 mm (f= 313 Hz) conforming to IEC 60068-2-6 1 gn (f= 13200 Hz) conforming to EN/IEC 60068-2-8			
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27			
Environmental Characteristic	Classes 3C1 conforming to IEC 60721-3-3 Classes 3S2 conforming to IEC 60721-3-3			
Noise Level	48 dB conforming to 86/188/EEC			
Operating Altitude	10003000 m limited to 2000 m for the Corner Grounded distribution network with current derating 1 % per 100 m <= 1000 m without derating			
Relative Humidity	595 % without condensation conforming to IEC 60068-2-3 595 % without dripping water conforming to IEC 60068-2-3			
Ambient Air Temperature For Operation	-10…40 °C (without derating) 40…50 °C (with derating factor)			
Operating Position	Vertical +/- 10 degree			
Product Certifications	UL CSA NOM 117 C-Tick			
Marking	CE			
Standards	IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 category C2 IEC 61800-3 environments 1 category C3 IEC 61800-3 category C3 IEC 61800-3 category C3 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 category C2			
Assembly Style	With heat sink			
Electromagnetic Compatibility	Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11			
Regulation Loop	Adjustable PI regulator			
Ambient Air Temperature For	-2570 °C			

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	28.000 cm
Package 1 Width	25.500 cm

Package 1 Length	37.000 cm
Package 1 Weight	6.725 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	5
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	46.625 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



EQ

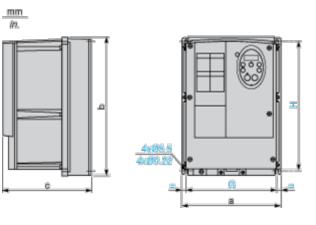
Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
Circularity Profile	End of Life Information				
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov				

Dimensions Drawings

Dimensions



Dimensions in mm

ATV212W	а	b	с	G	Н
075N4U22N4 075N4CU22N4C	215	297	192	197	277
U30N4U75N4 U30N4CU75N4C	230	340	208	212	318

Dimensions in in.

ATV212W	а	b	с	G	Н
075N4U22N4 075N4CU22N4C	8.46	11.69	7.56	7.76	10.91
U30N4U75N4 U30N4CU75N4C	9.06	13.39	8.19	8.35	12.52

ATV212WU15N4

Mounting and Clearance

Mounting Recommendations

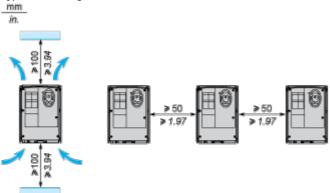
Clearance

Depending on the conditions in which the drive is to be used, its installation will require certain precautions and the use of appropriate accessories.

Install the unit vertically:

- Do not place it close to heating elements.
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate from bottom to the top of the unit.

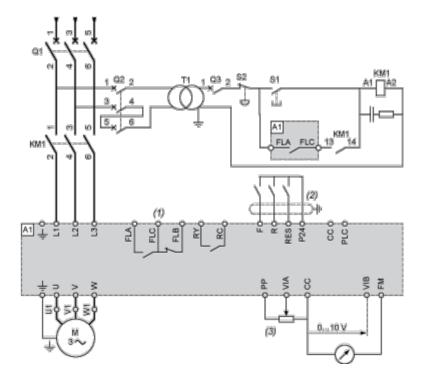
Type A Mounting



Connections and Schema

Recommended Wiring Diagram

3-Phase Power Supply



- A1: ATV 212 drive
- KM1: Contactor
- Q1: Circuit breaker
- Q2: GV2 L rated at twice the nominal primary current of T1
- Q3: GB2CB05
- S1, S2: XB4 B or XB5 A pushbuttons
- T1: 100 VA transformer 220 V secondary
- (1) Fault relay contacts for remote signalling of the drive status
- (2) Connection of the common for the logic inputs depends on the positioning of the switch (Source, PLC, Sink)
- (3) Reference potentiometer SZ1RV1202

NOTE: All terminals are located at the bottom of the drive. Install interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

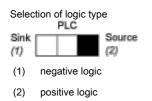
Switches (Factory Settings)

Voltage/current selection for analog I/O (VIA and VIB)

VIA U		I
VIB U		PTC

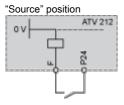
Voltage/current selection for analog I/O (FM)

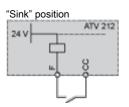


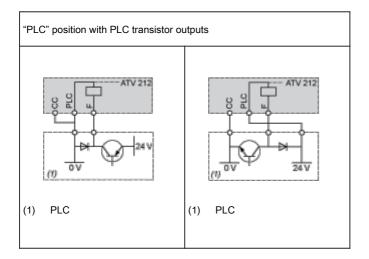


Other Possible Wiring Diagrams

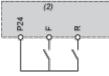
Logic Inputs According to the Position of the Logic Type Switch







2-wire control



F: Forward

- R: Preset speed
- (2) ATV 212 control terminals

3-wire control



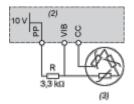
F: Forward

R: Stop

RES: Reverse

(2) ATV 212 control terminals

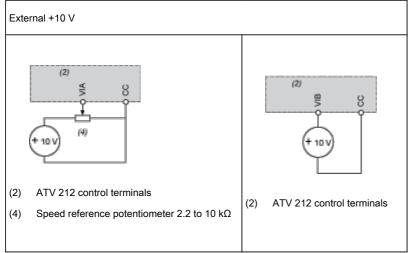
PTC probe



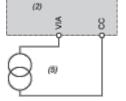
- (2) ATV 212 control terminals
- (3) Motor

Analog Inputs

Voltage analog inputs



Analog input configured for current: 0-20 mA, 4-20 mA, X-Y mA



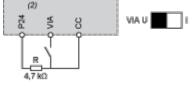
- (2) ATV 212 control terminals
- (5) Source 0-20 mA, 4-20 mA, X-Y mA

Analog input VIA configured as positive logic input ("Source" position)



(2) ATV 212 control terminals

Analog input VIA configured as negative logic input ("Sink" position)

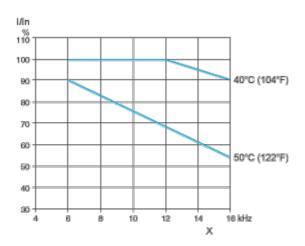


(2) ATV 212 control terminals

Performance Curves

Derating Curves

The derating curves for the drive nominal current (In) depend on the temperature and the switching frequency. For intermediate temperatures (45°C for example), interpolate between 2 curves.



X Switching frequency