

variable speed drive, Altivar 212, 1.5kW, 2hp, 480V, 3 phases, with EMC, IP21

ATV212HU15N4

Product availability: Stock - Normally stocked in distribution facility

Price*: 662.40 USD

Main

Device short name	ATV212					
product destination	Asynchronous motors					
Phase	3 phase					
Motor power kW	1.5 kW					
Maximum Horse Power Rating	2 hp					
Supply voltage limits	323528 V					
Supply frequency	5060 Hz - 55 %					
Line current	2.5 A 480 V 3.2 A 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	APOGEE FLN BACnet Modbus LonWorks METASYS N2					
[Us] rated supply voltage	380480 V - 1510 %					
EMC filter	Class C2 EMC filter integrated					
IP degree of protection	IP21					

Complementary

Apparent power	2.8 kVA 380 V			
Continuous output current	3.7 A 380 V 3.7 A 460 V			
Maximum transient current	4 A 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	for DC bus energized 1 LED (red)			
Output voltage	<= power supply voltage			
Isolation	Electrical between power and control			

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Type of cable	Without mounting kit 1 IEC cable 113.00000000000 °F (45 °C), copper 90 °C / XLPE/ EPR Without mounting kit 1 IEC cable 113.0000000000 °F (45 °C), copper 70 °C / PVC With UL Type 1 kit 3 UL 508 cable 104.00000000000 °F (40 °C), copper 75 °C / PVC						
Electrical connection	VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES terminal 0.004 in² (2.5 mm²) / AWG 14 L1/R, L2/S, L3/T terminal 0.009 in² (6 mm²) / AWG 10						
Tightening torque	11.5 lbf.in (1.3 N.m), 11.5 lb.in L1/R, L2/S, L3/T) 5.3 lbf.in (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 %, <10 A overload and short-circuit protection Internal supply 24 V DC 2127 V), <200 A 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 +/- 0.5 ms analog FLA, FLC 7 ms +/- 0.5 ms discrete FLB, FLC 7 ms +/- 0.5 ms discrete RY, RC 7 ms +/- 0.5 ms discrete						
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 input VIB +/- 0.15 % of maximum value input FM +/- 0.2 % output						
Analogue output type	FM switch-configurable voltage 010 V DC 7620 Ohm 10 bits FM switch-configurable current 020 mA 970 Ohm 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 24 V DC configurable relay logic						
Maximum switching current	5 A 250 V AC resistive cos phi = 1 L/R = 0 ms FL, R) 5 A 30 V DC resistive cos phi = 1 L/R = 0 ms FL, R) 2 A 250 V AC inductive cos phi = 0.4 L/R = 7 ms FL, R) 2 A 30 V DC inductive cos phi = 0.4 L/R = 7 ms FL, R)						
Discrete input type	F programmable 24 V DC level 1 PLC 4700 Ohm R programmable 24 V DC level 1 PLC 4700 Ohm RES programmable 24 V DC level 1 PLC 4700 Ohm						
Discrete input logic	Positive logic (source) F, R, RES), <= 5 V, >= 11 V Negative logic (sink) F, R, RES), >= 16 V, <= 10 V						
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						
Read device identification (43) Time out setting from 0.1 to 100 s Monitoring inhibitable Write single register (06) Read holding registers (03) 2 words maximum Write multiple registers (16) 2 words maximum							
Option card	Communication card LonWorks						
Power dissipation in W	78 W						
Air flow	7132.8 Gal/hr(US) (27 m3/h)						
Functionality	Mid						
Specific application	HVAC						

Variable speed drive application selection	Building - HVAC compressor for scroll Building - HVAC fan Building - HVAC pump					
Motor power range AC-3	1.12 kW 380440 V 3 phase 1.12 kW 480500 V 3 phase					
Motor starter type	Variable speed drive					
Discrete output number	2					
Analogue input number	2					
Analogue input type	switch-configurable voltage 010 V DC 24 V max 30000 Ohm 10 bits configurable voltage 010 V DC 24 V max 30000 Ohm 10 bits configurable PTC probe 06 probes 1500 Ohm switch-configurable current 020 mA 250 Ohm 10 bits					
Analogue output number	1					
Physical interface	2-wire RS 485					
Connector Type	1 open style 1 RJ45					
Transmission Rate	9600 bps or 19200 bps					
Transmission frame	RTU					
Number of addresses	1247					
Data format	8 bits, 1 stop, odd even or no configurable parity					
Type of polarization	No impedance					
Asynchronous motor control profile	Voltage/frequency ratio - Energy Saving, quadratic U/f Voltage/frequency ratio, 5 points Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio, 2 points Flux vector control without sensor, standard					
Torque accuracy	+/- 15 %					
Transient overtorque	120 % of nominal motor torque +/- 10 % 60 s					
Acceleration and deceleration ramps	Linear adjustable separately from 0.01 to 3200 s Automatic based on the load					
Motor slip compensation	Adjustable Not available in voltage/frequency ratio motor control Automatic whatever the load					
Switching frequency	616 kHz adjustable 1216 kHz with derating factor					
Nominal switching frequency	12 kHz					
Braking to standstill	By DC injection					
Network Frequency	47.563 Hz					
Prospective line Isc	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	4.2 in (107 mm)					

5.9 in (150 mm)
4.4 lb(US) (2 kg)
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Environment

Pollution degree 2 EC 61800-5-1 P degree of protection IP20 on upper part without blanking plate on cover IEC 61800-5-1 IP20 on upper part without blanking plate on cover IEC 61800-5-1 IP21 IEC 668029 IP21 IEC 668029 IP21 on upper part IEC 61800-5-1 IP21 on upper part IEC 608029 IP21 on upper part IEC 60802-2-6 IP21 on upper part IEC 60802-2-7 IP21 on upper part IEC 60802-2-6 IP21 on upper part IEC 60802-2-7 IP22 on upper part IEC 60802-2-7 IP22 on upper part IEC 60802-2-7 IP23 on upper part IEC 60802-2-7 IP24 on upper part IEC 60802-2-7 IP24 on upper part IEC 60802-2-7 IP25 on upper part IEC 60802-2-7 IP26 o	Environment						
IP20 on upper part without blanking plate on cover IEC 60529 IP21 IEC 61800-5-1 IP21 IEC 61800-5-1 IP21 IEC 60529 IP21 ieC 61600-8-2-8 IP22 ieC 61600-8-2 IP22	Pollution degree	2 IEC 61800-5-1					
1 gn 13200 Hz)EN/IEC 60088-2-8	IP degree of protection	IP20 on upper part without blanking plate on cover IEC 60529 IP21 IEC 61800-5-1 IP21 IEC 60529 IP41 on upper part IEC 61800-5-1					
Environmental characteristic Classes 3C1 EC 60721-3-3 Classes 3C1 EC 60721-3-3	Vibration resistance						
Classes 3S2 IEC 60721-3-3 Noise level	Shock resistance	15 gn 11 ms IEC 60068-2-27					
Standards Sta	Environmental characteristic						
distribution network with current derating 1 % per 100 m <= 3280.84 ft (1000 m) without derating 595 % without condensation IEC 60068-2-3 595 % without dripping water IEC 60068-2-3 Ambient air temperature for operation 14.0000000000122.000000000 "F (-1040 "C) without derating) 104.000000000122.000000000 "F (4050 "C) with derating factor) Operating position Vertical +/- 10 degree Product Certifications UL NOM 117 C-lick CSA Marking CE Standards EN 55011 class A group 1 IEC 61800-3 environments 2 category C1 EN 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C4 IEC 61800-3 environments 1 category C5 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C4 IEC 61800-3 environments 2 category C5 IEC 61800-3 environments 2 category C5 IEC 61800-3 environments 2 category C5 IEC 61800-3 environments 2 category C6 IEC 61800-3 environments 2 category C6 IEC 61800-3 environments 2 category C7 IEC 61800-3 environments 2 category C6 IEC 61800-3 environments 3 category C7 IEC 61800-3 environments 3 category C6 IEC 61800-4 environments 3 category C7 IEC 61800-3 environments 4 category C7 IEC 61800-3 environments 4 category C7 IEC 61800-3 environments 4 category C7 IEC 61800-4 environments 5 category C7 IEC 61800-4 environments 6 category C7 IEC 61800-4 environments 6 category C7 IEC 61800-4 environments 6 cate	Noise level	51 dB 86/188/EEC					
Ambient air temperature for operation 14.000000000104.000000000 "F (-1040 "C) without derating) 104.000000000122.0000000000 "F (-1040 "C) with derating factor) Operating position Vertical +/- 10 degree Product Certifications UL	Operating altitude	distribution network with current derating 1 % per 100 m					
Operating position Vertical +/- 10 degree Product Certifications UL	Relative humidity						
Product Certifications UL NOM 117 C-lick CSA Marking CE Standards EN 55011 class A group 1 IEC 61800-3 environments 2 category C1 EN 61800-3 actegory C3 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C3 UL Type 1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-5-1 IEC 61800-5-1 IEC 61800-5-1 IEC 61800-5-1 IEC 61800-3 category C2 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C2 IEC 61800-3 category C3 IEC 61800-4-1 IEC 61800-3 category C4 IEC 61800-3 category C5 IEC 61800-3 category C5 IEC 61800-3 category C4 IEC 61800-3 category C5 IEC 61800-3 category C5 IEC 61800-3 category C5 IEC 61800-3 category C6 IEC 61800-4-1 IEC 61800-3 category C7 IEC 61800-3 category C6 IEC 61800-3 category C7 IEC 61800-3 category C7 IEC 61800-3 category C8 IEC 61800-4-1 IEC 61800-3 category C9 IEC 61800-4-1 IEC 61800-3 category C9 IEC 61800-4-1 IEC 61800-4							
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Standards EN 55011 class A group 1 IEC 61800-3 environments 2 category C1 EN 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C3 UL Type 1 IEC 61800-3 environments 1 category C3 UL Type 1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-51 IEC 61800-5-1 IEC 61800-5-1 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 IEC 61000-4-5 Conducted radio-frequency immunity test level 3 IEC 61000-4-5 Conducted radio-frequency immunity test level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test IEC 61000-4-1	Product Certifications	NOM 117 C-tick					
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Electromagnetic compatibility Electrostatic discharge immunity test level 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 IEC 61000-4-5 Conducted radio-frequency immunity test level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test IEC 61000-4-11	Standards	IEC 61800-3 environments 2 category C1 EN 61800-3 category C3 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C3 UL Type 1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 category C3 IEC 61800-3 category C3 IEC 61800-3 category C2 IEC 61800-3 environments 1 category C1					
Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 IEC 61000-4-5 Conducted radio-frequency immunity test level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test IEC 61000-4-11	Assembly style	With heat sink					
Regulation loop Adjustable PI regulator	Electromagnetic compatibility	Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 IEC 61000-4-5 Conducted radio-frequency immunity test level 3 IEC 61000-4-6					
	Regulation loop	Adjustable PI regulator					

Ordering and shipping details

Category	US1CP4D22157	
Discount Schedule	CP4D	
GTIN	3606480322457	
Returnability	Yes	
Country of origin	ID	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.890 in (17.500 cm)
Package 1 Width	6.811 in (17.300 cm)
Package 1 Length	8.071 in (20.500 cm)
Package 1 Weight	4.359 lb(US) (1.977 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	27
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	143.722 lb(US) (65.191 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 >

Well-being performance

Mercury Free

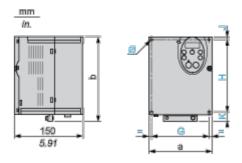
V	Rons Exemption Information	Yes

Reach Regulation	REACh Declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration				
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.				
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				

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Dimensions Drawings

Dimensions



Dimensions in mm

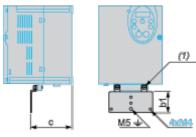
Differsions in tilli							
ATV212H	а	b	G	Н	J	K	Ø
075M3XU22M3X 075N4U22N4	107	143	93	121.5	5	16.5	2 x Ø5
U30M3X, U40M3X U30N4U55N4	142	184	126	157	6.5	20.5	4 x Ø5

Dimensions in in

Dimensions in in.							
ATV212H	а	b	G	Н	J	K	Ø
075M3XU22M3X 075N4U22N4	4.21	5.63	3.66	4.78	0.20	0.65	2 x Ø0.20
U30M3X, U40M3X U30N4U55N4	5.59	7.24	4.96	6.18	0.26	0.81	4 x Ø0.20

Plate for EMC mounting (supplied with the drive)





(1) 2 x M5 screws

Dimensions in mm

ATV212H	b1	С
075M3XU22M3X 075N4U22N4	49	67.3
U30M3X, U40M3X U30N4U55N4	48	88.8

Dimensions in in.

D		
ATV212H	b1	С
075M3XU22M3X 075N4U22N4	1.93	2.65

Product data sheet ATV212HU15N4

ATV212H	b1	С
U30M3X, U40M3X U30N4U55N4	1.89	3.50

ATV212HU15N4

Mounting and Clearance

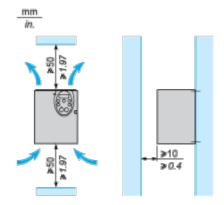
Mounting Recommendations

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:

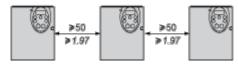
- Do not place it close to heating elements.
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate from bottom to the top of the unit.

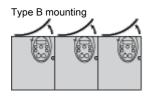


Mounting Types

Type A mounting

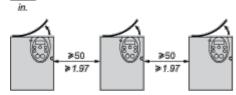






Type C mounting





By removing the protective blanking cover from the top of the drive, the degree of protection for the drive becomes IP21. The protective blanking cover may vary according to the drive model, see opposite.

ATV212HU15N4

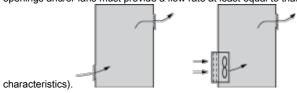
Specific Recommendations for Mounting in an Enclosure

To help ensure proper air circulation in the drive:

• Fit ventilation grilles.

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• Check that there is sufficient ventilation. If there is not, install a forced ventilation unit with a filter. The openings and/or fans <u>must provide</u> a flow rate at <u>least equal to</u> that of the drive fans (refer to the product



- Use special filters with UL Type 12/IP54 protection.
- Remove the blanking cover from the top of the drive.

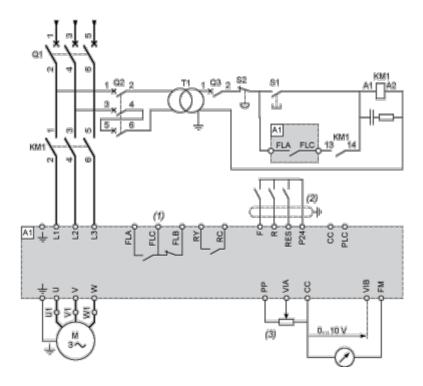
Sealed Metal Enclosure (IP54 Degree of Protection)

The drive must be mounted in a dust and damp proof enclosure in certain environmental conditions, such as dust, corrosive gases, high humidity with risk of condensation and dripping water, splashing liquid, etc. This enables the drive to be used in an enclosure where the maximum internal temperature reaches 50°C.

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)



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



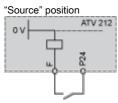
ATV212HU15N4

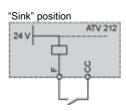
Selection of logic type PLC Sink Source (1)

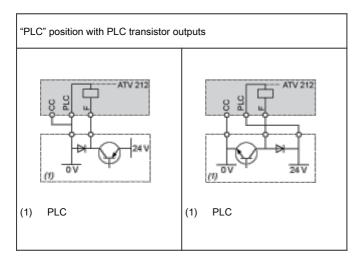
- (1) negative logic
- (2) positive logic

Other Possible Wiring Diagrams

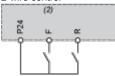
Logic Inputs According to the Position of the Logic Type Switch





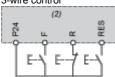


2-wire control



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

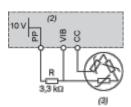
3-wire control



- F: Forward
- R: Stop
- RES: Reverse
- (2) ATV 212 control terminals

PTC probe

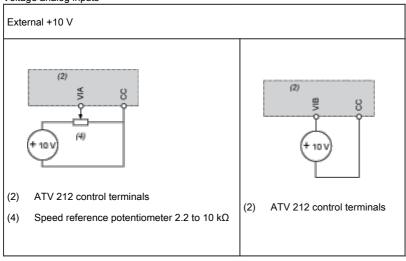
ATV212HU15N4



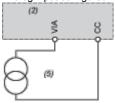
- (2) ATV 212 control terminals
- (3) Motor

Analog Inputs

Voltage analog inputs

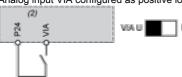


Analog input configured for current: 0-20 mA, 4-20 mA, X-Y mA



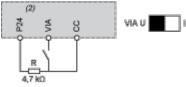
- (2) ATV 212 control terminals
- (5) Source 0-20 mA, 4-20 mA, X-Y mA

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

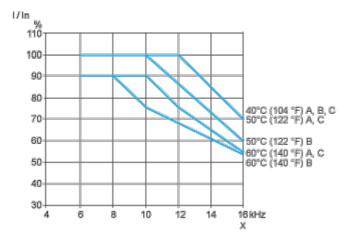
ATV212HU15N4

Performance Curves

Derating Curves

The derating curves for the drive nominal current (In) depend on the temperature, the switching frequency and the mounting type (A, B or C).

For intermediate temperatures (45°C for example), interpolate between 2 curves.



X Switching frequency