Specifications





variable speed drive, Altivar 212, 22kW, 30hp, 480V, 3 phases, with EMC, IP21

ATV212HD22N4

Main

Device Short Name	ATV212						
Product Destination	Asynchronous motors						
Network Number Of Phases	3 phases						
Motor Power Kw	2 kW						
Motor Power Hp	30 hp						
Supply Voltage Limits	323528 V						
Supply Frequency	5060 Hz - 55 %						
Line Current	33.1 A at 480 V 41.6 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	Modbus LonWorks APOGEE FLN BACnet METASYS N2						
[Us] Rated Supply Voltage	380480 V - 1510 %						
Emc Filter	Class C2 EMC filter integrated						
Ip Degree Of Protection	IP21						

Complementary

Apparent Power	33.2 kVA at 380 V					
Continuous Output Current	43.5 A at 380 V 43.5 A at 460 V					
Maximum Transient Current	47.9 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					

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Electrical Connection	VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES: terminal 2.5 mm² / AWG 14 L1/R, L2/S, L3/T: terminal 50 mm² / AWG 1/0						
Tightening Torque	0.6 N.m (VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES) 24 N.m, 212 lb.in (L1/R, L2/S, L3/T)						
Supply	Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V DC +/- 5 %, <10 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	Write single register (06) Read device identification (43) Read holding registers (03) 2 words maximum Write multiple registers (16) 2 words maximum Time out setting from 0.1 to 100 s Monitoring inhibitable						
Option Card	Communication card for LonWorks						
Power Dissipation In W	626 W						
Air Flow	214 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	1525 kW at 380440 V 3 phases 1525 kW at 480500 V 3 phases						
Motor Starter Type	Variable speed drive						
Discrete Output Number	2						
Analogue Input Number	2						
Analogue Input Type	VIA switch-configurable voltage: 010 V DC 24 V max, impedance: 30000 Ohm, resolution 10 bits VIB configurable voltage: 010 V DC 24 V max, impedance: 30000 Ohm, resolution 10 bits VIB configurable PTC probe: 06 probes, impedance: 1500 Ohm VIA switch-configurable current: 020 mA, impedance: 250 Ohm, resolution 10 bits						
Analogue Output Number	1						
Physical Interface	2-wire RS 485						
Connector Type	1 RJ45 1 open style						
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, 2 points Voltage/frequency ratio - Energy Saving, quadratic U/f Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Flux vector control without sensor, standard Voltage/frequency ratio, 5 points						
Torque Accuracy	+/- 15 %						
Transient Overtorque	120 % of nominal motor torque +/- 10 % for 60 s						
Acceleration And Deceleration Ramps	Automatic based on the load Linear adjustable separately from 0.01 to 3200 s						
Motor Slip Compensation	Adjustable Not available in voltage/frequency ratio motor control Automatic whatever the load						
Switching Frequency	616 kHz adjustable 816 kHz with derating factor						
Nominal Switching Frequency	8 kHz						
Braking To Standstill	By DC injection						
Network Frequency	47.563 Hz						
Prospective Line Isc	22 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	240 mm						
Height	420 mm						

Depth	214 mm	
Net Weight	26.4 ka	

Environment

IP20 on upper part without blanking plate on cover conforming to IEC 6 1800-5-1 IP21 conforming to IEC 6 1800-5-1 IP21 conforming to IEC 6 1800-5-1 IP21 conforming to IEC 60529 IP41 on upper part conforming to IEC 60529 IP41 on upper part conforming to IEC 60068-2-6 1gn (f= 13200 Hz) conforming to IEC 60068-2-6 1gn (f= 13200 Hz) conforming to IEC 60068-2-8 IP41 on upper part conforming to IEC 60068-2-7 IP41 on upper part conforming to IEC 60068-2-8 IP41 on upper part conforming to IEC 60068-2-8 IP41 on upper part conforming to IEC 60068-2-3	Pollution Degree	3 conforming to IEC 61800-5-1						
Shock Resistance 15 gn (r= 13200 Hz) conforming to EN/IEC 60068-2-8 Shock Resistance 15 gn for 11 ms conforming to IEC 60068-2-7 Classes 3C1 conforming to IEC 60721-3-3 Classes 3S2 conforming to IEC 60721-3-3 Noise Level 59,9 dB conforming to 86/188/EEC Operating Altitude 10003000 m limited to 2000 m for the Corner Grounded distribution in 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 1040 °C (without derating) 4050 °C (with derating factor) Operating Position Vertical +/- 10 degree C-Tick UL NOM 117 CSA Bitc 61800-3 environments 1 category C2 IEC 61800-3 environments 1 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 1 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 catego	p Degree Of Protection	IP21 conforming to IEC 60529 IP41 on upper part conforming to IEC 61800-5-1						
Environmental Characteristic Classes 3C1 conforming to IEC 60721-3-3 Classes 3S2 conforming to IEC 60721-3-3 Noise Level 59.9 dB conforming to 86/188/EEC Deparating Altitude 10003000 m limited to 2000 m for the Corner Grounded distribution of 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 1040 °C (without derating) 4050 °C (with derating factor) Deparating Position Vertical +/- 10 degree C-Tick UL NOM 117 CSA Marking CE Standards IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 categor	Vibration Resistance	, ,						
Classes 3S2 conforming to IEC 60721-3-3 Noise Level 59.9 dB conforming to 86/188/EEC Operating Altitude 10003000 m limited to 2000 m for the Corner Grounded distribution in 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 1040 °C (without dripping water conforming to IEC 60068-2-3 1040 °C (without derating) 4050 °C (with derating factor) Operating Position Vertical +/- 10 degree Product Certifications C-Tick ULL NOM 117 CSA Marking CE Standards IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environm	Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27						
Discreting Altitude 10003000 m limited to 2000 m for the Corner Grounded distribution in current derating 1 % per 100 m	Environmental Characteristic							
current derating 1 % per 100 m <= 1000 m without derating S95 % without condensation conforming to IEC 60068-2-3 595 % without dripping water conforming to IEC 60068-2-3 Ambient Air Temperature For Operation	Noise Level	59.9 dB conforming to 86/188/EEC						
Ambient Air Temperature For Operation	Operating Altitude	9 1						
Operating Position Vertical +/- 10 degree C-Tick UL NOM 117 CSA Marking CE Standards IEC 61800-3 environments 1 category C2 IEC 61800-3 category C3 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C2 IEC 61800-3 lEC 61800-3 IEC 61800-3 environments 2 category C2 IEC 61800-3 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C3 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 2 category C1 IEC 61800-3 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C2 UL Type 1 IEC 61800-3 environments 2 category C1	Relative Humidity	· · · · · · · · · · · · · · · · · · ·						
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Standards IEC 61800-3 environments 1 category C2 IEC 61800-3 category C3 IEC 61800-3 category C2 IEC 61800-3 category C2 IEC 61800-3 IEC 61800-3 category C2 IEC 61800-5-1 IEC 61800-5-1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C1 IEC	Product Certifications	UL NOM 117						
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Electromagnetic Compatibility Electrostatic discharge immunity test level 3 conforming to IEC 61000-4 Radiated radio-frequency electromagnetic field immunity test level 3 co IEC 61000-4-3	Standards	IEC 61800-3 environments 1 category C2 EN 61800-3 category C3 IEC 61800-3 category C2 IEC 61800-3 IEC 61800-5-1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C2 UL Type 1 IEC 61800-3 environments 1 category C1 EN 55011 class A group 1						
Radiated radio-frequency electromagnetic field immunity test level 3 co IEC 61000-4-3	Assembly Style	With heat sink						
1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000 Conducted radio-frequency immunity test level 3 conforming to IEC 610	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	Regulation Loop	Adjustable PI regulator						

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	41 cm
Package 1 Width	38.5 cm
Package 1 Length	51 cm
Package 1 Weight	13.5 kg

Contractual warranty

Warranty	18 months	
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Sustainability Green Premium

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



Mercury Free



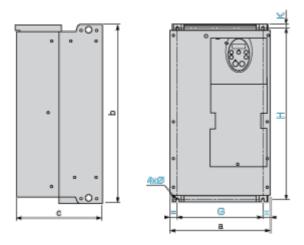
Rohs Exemption Information

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				

Dimensions



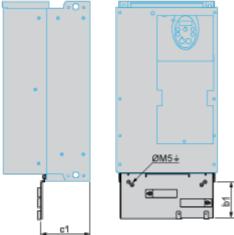
Dimensions in mm

Dimensions in min							
ATV212H	а	b	С	G	Н	K	Ø
D22M3X D22N4, D30N4	240	420	214	206	403	10	6
D37N4, D45N4	240	550	244	206	529	10	6

Dimensions in in.

Dimonolono in in.							
ATV212H	а	b	С	G	Н	K	Ø
D22M3X D22N4, D30N4	9.45	16.54	8.43	8.11	15.87	0.39	0.24
D37N4, D45N4	9.45	21.65	9.60	8.11	20.83	0.39	0.24

EMC mounting plate (supplied with drive)



Dimensions in mm

ATV212H	b1	c1
D22M3X D22N4, D30N4	122	120
D37N4, D45N4	113	127

ATV212HD22N4

Dimensions in in.

ATV212H	b1	c1
D22M3X D22N4, D30N4	4.80	4.72
D37N4, D45N4	4.45	5.00



Mounting and Clearance

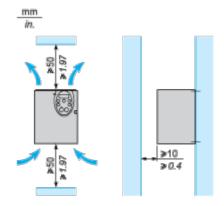
Mounting Recommendations

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.

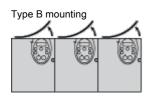


Mounting Types

Type A mounting

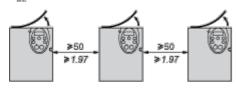






Type C mounting





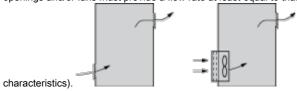
By removing the protective blanking cover from the top of the drive, the degree of protection for the drive becomes IP21. The protective blanking cover may vary according to the drive model, see opposite.

ATV212HD22N4

Specific Recommendations for Mounting in an Enclosure

To help ensure proper air circulation in the drive:

- Fit ventilation grilles.
- 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.

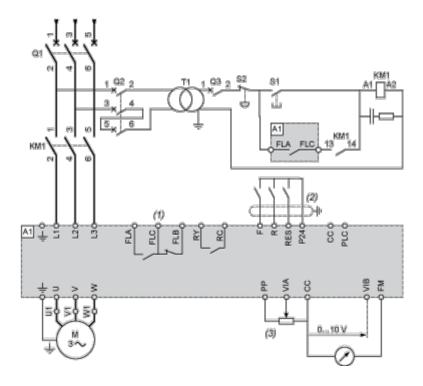
Sealed Metal Enclosure (IP54 Degree of Protection)

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.



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)



Selection of logic type

ATV212HD22N4

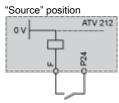


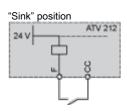
- (1) negative logic
- (2) positive logic

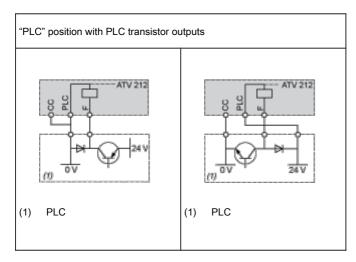


Other Possible Wiring Diagrams

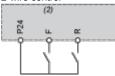
Logic Inputs According to the Position of the Logic Type Switch





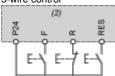


2-wire control



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

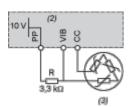
3-wire control



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

PTC probe

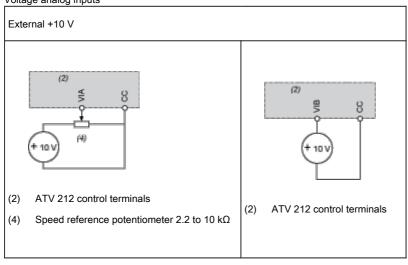
ATV212HD22N4



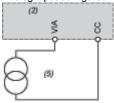
- (2) ATV 212 control terminals
- (3) Motor

Analog Inputs

Voltage analog inputs

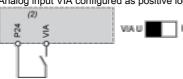


Analog input configured for current: 0-20 mA, 4-20 mA, X-Y mA



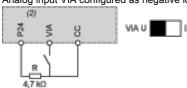
- (2) ATV 212 control terminals
- (5) Source 0-20 mA, 4-20 mA, X-Y mA

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

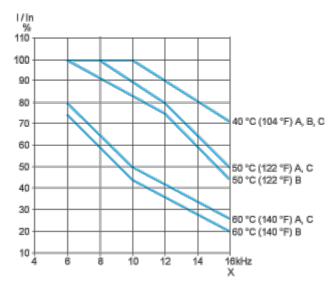
ATV212HD22N4

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