

variable speed drive ATV212 - 15kW - 20hp - 480V - 3ph - EMC - IP21

Local distributor code:

398227003 ATV212HD15N4

EAN Code: 3606480322525

Main

Device Short Name	ATV212
Product Destination	Asynchronous motors
Network Number Of Phases	3 phases
Motor Power Kw	15 kW
Motor Power Hp	20 hp
Supply Voltage Limits	323528 V
Supply Frequency	5060 Hz - 55 %
Line Current	22.8 A at 480 V 28.5 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	BACnet Modbus METASYS N2 APOGEE FLN LonWorks
[Us] Rated Supply Voltage	380480 V - 1510 %
Emc Filter	Class C2 EMC filter integrated
Ip Degree Of Protection	IP21

Complementary

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Apparent Power	23.2 kVA at 380 V	
Continuous Output Current	30.5 A at 380 V 30.5 A at 460 V	
Maximum Transient Current	33.6 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	

VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES: terminal 2.5 mm² / AWG 14 L1/R, L2/S, L3/T: terminal 25 mm² / AWG 3
0.6 N.m (VIA, VIB, FM, FLA, FLB, FLC, RY, RC, F, R, RES) 4.5 N.m, 40 lb.in (L1/R, L2/S, L3/T)
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
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
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)
+/- 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
VIA: +/- 0.15 % of maximum value for input VIB: +/- 0.15 % of maximum value for input FM: +/- 0.2 % for output
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
Configurable relay logic: (FLA, FLC) NO - 100000 cycles Configurable relay logic: (FLB, FLC) NC - 100000 cycles Configurable relay logic: (RY, RC) NO - 100000 cycles
3 mA at 24 V DC for configurable relay logic
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)
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
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)
3535 V DC between earth and power terminals 5092 V DC between control and power terminals
>= 1 mOhm 500 V DC for 1 minute
Display unit: 0.1 Hz Analog input: 0.024/50 Hz
Time out setting from 0.1 to 100 s Read device identification (43) Monitoring inhibitable Write single register (06) Write multiple registers (16) 2 words maximum Read holding registers (03) 2 words maximum
Communication card for LonWorks
625 W
206 m3/h
Mid
HVAC
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 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	Flux vector control without sensor, standard Voltage/frequency ratio, 2 points Voltage/frequency ratio, automatic IR compensation (U/f + automatic Uo) Voltage/frequency ratio - Energy Saving, quadratic U/f Voltage/frequency ratio, 5 points
Torque Accuracy	+/- 15 %
Transient Overtorque	120 % of nominal motor torque +/- 10 % for 60 s
Acceleration And Deceleration Ramps	Linear adjustable separately from 0.01 to 3200 s Automatic based on the load
Motor Slip Compensation	Automatic whatever the load Not available in voltage/frequency ratio motor control Adjustable
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	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	245 mm
Height	330 mm

Depth	190 mm	
Net Weight	11.65 kg	

Environment

IP20 on upper part without blanking plate on cover conforming to IEC 61800-5-1 IP20 on upper part without blanking plate on cover conforming to IEC 61800-5-1 IP21 on upper part conforming to IEC 61800-5-6 IP21 on upper part conforming to IEC 60088-2-6 IP21 on upper part conforming to IEC 60088-2-6 IP21 on upper part conforming to IEC 60088-2-6 IP21 on upper part conforming to IEC 60088-2-7 IP21 on upper part conforming to IEC 60088-2-8 IP21 on upper part conforming to IEC 60088-2-3 IP21 on upper part conformi	Environment		
IP20 on upper part without blanking palse on cover conforming to IEC 60629 IP21 conforming to IEC 61800-5-1 IP21 conforming to IEC 61800-5-1 IP21 conforming to IEC 61800-5-1 IP21 conforming to IEC 60529 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 60068-2-8 Ip m (= 13200 Hz) conforming to IEC 60068-2-8 Ip m (= 13200 Hz) conforming to IEC 60068-2-8 Shock Resistance I5 gn for 11 ms conforming to IEC 60068-2-7 Environmental Characteristic Classes 352 conforming to IEC 60721-3-3 Classes 352 conforming to IEC 60721-3-3 Classes 352 conforming to IEC 60721-3-3 Noise Level 54 dB conforming to 86/188/IEEC 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 60068-2-395 % without depring water conforming to IEC 60068-2-3 Ambient Air Temperature For Operation Vertical +/- 10 degree Product Certifications CSA UL C-Tick NOM 117 Marking CE Standards IEC 61800-3 category C2 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 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 environments 1 category C1 IEC 61800-3 environments 1 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 1 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 2 category	Pollution Degree	2 conforming to IEC 61800-5-1	
Shock Resistance 15 gn for 11 ms conforming to IEC 60088-2-27 Environmental Characteristic Classes 3C1 conforming to IEC 60721-3-3 Classes 3S2 conforming to IEC 60721-3-3 Noise Level 54 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 1 % per 100 m 1000 m without derating 1 % per 100 m 1000 m without derating 2 m without derating 3 m without derating 4 m m m m m m m m m m m m m m m m m m m	Ip Degree Of Protection	IP20 on upper part without blanking plate on cover conforming to IEC 60529 IP21 conforming to IEC 61800-5-1 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 54 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 8	Vibration Resistance		
Classes 3S2 conforming to IEC 60721-3-3 Noise Level	Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
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 595 % without condensation conforming to IEC 60068-2-3 595 % without dirping water conforming to IEC 60068-2-3 595 % without dirping water conforming to IEC 60068-2-3 Ambient Air Temperature For Operation Vertical 1/- 10 degree Product Certifications CSA UL C-Tick NOM 117 Marking CE Standards IEC 61800-3 category C2 EN 61800-3 category C3 IEC 61800-3 environments 2 category C1 EN 55011 class A group 1 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 2 category C2 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C3 IEC 61800-3 environments 1 category C1 IEC 61800-3 environments 2 category C3 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 C4 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 C6 IEC 61800-3 environments 2 category C7 IEC 61800-3 environ	Environmental Characteristic	· · · · · · · · · · · · · · · · · · ·	
current derating 1% per 100 m <= 1000 m without derating 595 % without condensation conforming to IEC 60068-2-3 595 % without forping water conforming to IEC 60068-2-3 Ambient Air Temperature For Operation -1040 °C (without derating) 4050 °C (with derating feature) 4050 °C (with derating) 4050 °	Noise Level	54 dB conforming to 86/188/EEC	
Ambient Air Temperature For Operation -1040 °C (without derating) 4050 °C (with derating factor) Operating Position Vertical +/- 10 degree CSA UL C-Tick NOM 117 Marking CE Standards IEC 61800-3 category C2 EN 61800-3 category C3 IEC 61800-5-1 IEC 61800-5-1 IEC 61800-3 environments 2 category C1 EN 65180-3 environments 2 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C2 IEC 61800-3 environments 1 category C3 IEC 61800-5-1 UL Type 1 IEC 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C4 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 1 category C1 IEC 61800-3 environments 2 category C1 IEC 61800-3 environments 3 category C3 IEC 61800-3 environments 3 category C3 IEC 61800-3 environments 4 category C4 IEC 61800-3 environments 5 category C3 IEC 61800-3 environments 5 category C3 IEC 61800-3 environments 6 category C3 IEC 61800-3 environments 6 category C4 IEC 61800-3 environments 6 category C4 IEC 61800-3 environments 6 category C4 IEC 61800-3 environments 6 category C5 IEC 61800-3 environments 6 category C5 IEC 61	Operating Altitude	current derating 1 % per 100 m	
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Assembly Style 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	Standards	EN 61800-3 category C3 IEC 61800-3 category C3 IEC 61800-5-1 IEC 61800-3 environments 2 category C1 EN 55011 class A group 1 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 1 category C3 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 C1 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 1 category C1 IEC 61800-3 environments 2 category C1	
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	Assembly Style	With heat sink	
Regulation Loop Adjustable PI regulator	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	
	Regulation Loop	Adjustable PI regulator	

Ambient Air Temperature For -25...70 °C Storage

Packing Units

9	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	27.500 cm
Package 1 Width	39.500 cm
Package 1 Length	30.000 cm
Package 1 Weight	11.544 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	59.584 kg

Contractual warranty

22 May 2024

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	
Rohs 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

Dimensions Drawings

Dimensions

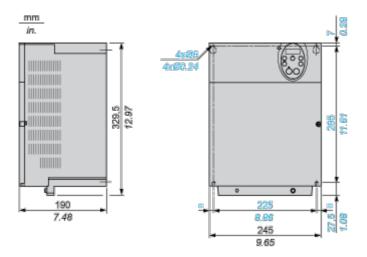
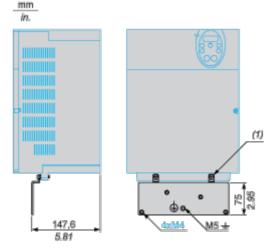


Plate for EMC mounting (supplied with the drive)



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Mounting and Clearance

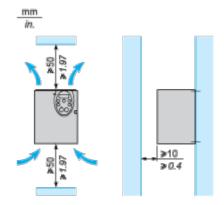
Mounting Recommendations

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:

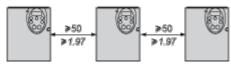
- Do not place it close to heating elements.
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate from bottom to the top of the unit.

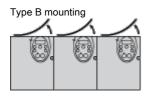


Mounting Types

Type A mounting

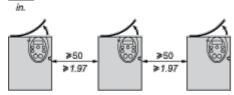






Type C mounting





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.

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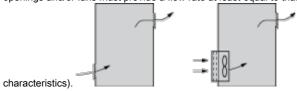
Specific Recommendations for Mounting in an Enclosure

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.

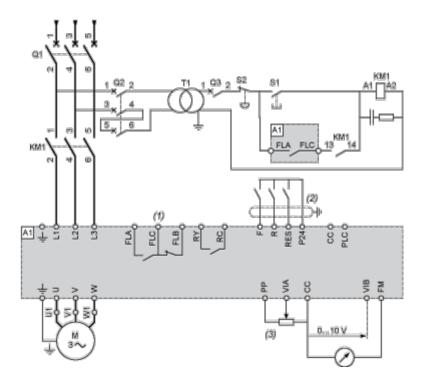
Sealed Metal Enclosure (IP54 Degree of Protection)

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)

VIA U I PTC

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

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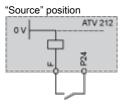
Selection of logic type PLC

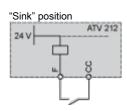
Sink Source (2)

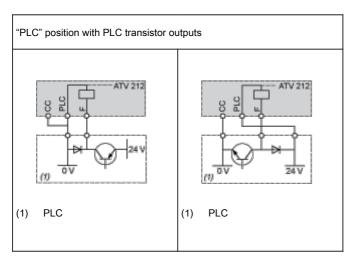
- (1) negative logic
- (2) positive logic

Other Possible Wiring Diagrams

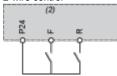
Logic Inputs According to the Position of the Logic Type Switch





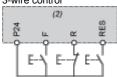


2-wire control



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

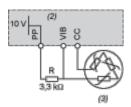
3-wire control



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

PTC probe

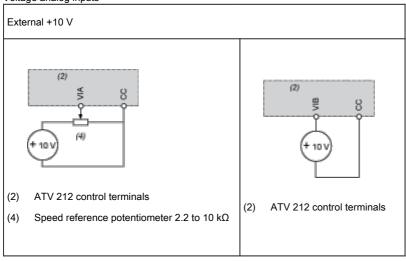
ATV212HD15N4



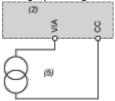
- (2) ATV 212 control terminals
- (3) Motor

Analog Inputs

Voltage analog inputs

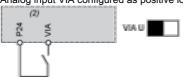


Analog input configured for current: 0-20 mA, 4-20 mA, X-Y mA



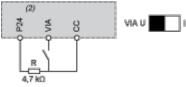
- (2) ATV 212 control terminals
- (5) Source 0-20 mA, 4-20 mA, X-Y mA

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

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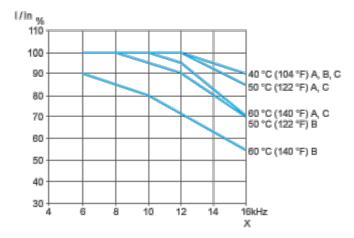
ATV212HD15N4

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

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