

# variable speed drive, ATV312, 10 HP, 12 kVA, 61 W, 380 to 500 V 3 phase supply

ATV312HU75N4

- ! Discontinued on: Feb 17, 2021
- ! To be end-of-service on: Jan 1, 2026

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Main

Range of Product	Altivar 312	
Product or Component Type	Variable speed drive	
Product destination	Asynchronous motors	
Product Specific Application	Simple machine	
Assembly style	With heat sink	
Component name	ATV312	
Motor power kW	7.5 kW	
Maximum Horse Power Rating	10 hp	
[Us] rated supply voltage	380500 V - 1510 %	
Supply frequency	5060 Hz - 55 %	
Phase	3 phase	
Line current	27.7 A 380 V, Isc = 22 kA 21 A 500 V	
EMC filter	Integrated	
Apparent power	18 kVA	
Maximum transient current	25.5 A 60 s	
Power dissipation in W	269 W at nominal load	
Speed range	150	
Asynchronous motor control profile	Sensorless flux vector control with PWM type motor control signal Factory set : constant torque	
Electrical connection	Al1, Al2, Al3, AOV, AOC, R1A, R1B, R1C, R2A, R2B, Ll1Ll6 terminal 0.004 in² (2.5 mm²) AWG 14 L1, L2, L3, U, V, W, PA, PB, PA/+, PC/- terminal 0.02 in² (16 mm²) AWG 6	
Supply	Internal supply for logic inputs 1930 V 100 mA overload and short-circuit protection Internal supply for reference potentiometer (2.2 to 10 kOhm) 1010.8 V 10 mA overload and short-circuit protection	
Communication Port Protocol	CANopen Modbus	
IP degree of protection	IP20 on upper part without cover plate IP21 on connection terminals IP31 on upper part IP41 on upper part	

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

Option card	Communication card CANopen daisy chain
	Communication card DeviceNet
	Communication card Fipio
	Communication card Modbus TCP
	Communication card Profibus DP

### Complementary

Complementary		
Supply voltage limits	323550 V	
Prospective line Isc	22 kA	
Continuous output current	17 A 4 kHz	
Output frequency	0500 Hz	
Nominal switching frequency	4 kHz	
Switching frequency	216 kHz adjustable	
Transient overtorque	170200 % of nominal motor torque	
Braking torque	150 % 60 s with braking resistor 100 % with braking resistor continuously 150 % without braking resistor	
Regulation loop	Frequency PI regulator	
Motor slip compensation	Automatic whatever the load Suppressable Adjustable	
Output voltage	<= power supply voltage	
Tightening torque	Al1, Al2, Al3, AOV, AOC, R1A, R1B, R1C, R2A, R2B, Ll1Ll6 5.3 lbf.in (0.6 N.m) L1, L2, L3, U, V, W, PA, PB, PA/+, PC/- 22.1 lbf.in (2.5 N.m)	
Insulation	Electrical between power and control	
Analogue input number	3	
Analogue input type	Al1 configurable voltage 010 V 30 V max 30000 Ohm Al2 configurable voltage +/- 10 V 30 V max 30000 Ohm Al3 configurable current 020 mA 250 Ohm	
Sampling duration	Al1, Al2, Al3 8 ms analog Ll1Ll6 4 ms discrete	
Response time	AOV, AOC 8 ms analog R1A, R1B, R1C, R2A, R2B 8 ms discrete	
Linearity error	+/- 0.2 % output	
Analogue output number	1	
Analogue output type	AOC configurable current 020 mA 800 Ohm 8 bits AOV configurable voltage 010 V 470 Ohm 8 bits	
Discrete input logic	Logic input not wired LI1LI4), < 13 V Negative logic (source) LI1LI6), > 19 V Positive logic (source) LI1LI6), < 5 V, > 11 V	
Discrete output number	2	
Discrete output type	Configurable relay logic R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles Configurable relay logic R2A, R2B) NC - 100000 cycles	
Minimum switching current	R1-R2 10 mA 5 V DC	
Maximum switching current	R1-R2 2 A 250 V AC inductive, cos phi = 0.4 7 ms R1-R2 2 A 30 V DC inductive, cos phi = 0.4 7 ms R1-R2 5 A 250 V AC resistive, cos phi = 1 0 ms R1-R2 5 A 30 V DC resistive, cos phi = 1 0 ms	
Discrete input number	6	
Discrete input type	LI1LI6) programmable 24 V, 0100 mA PLC 3500 Ohm	

Braking to standstill  By DC injection  Input phase breaks drive Line supply phase loss safety function, for three phases supply drive Motor phase breaks drive Overcurrent between output phases and earth (on power up only) drive Overcurrent between output phases and earth (on power up only) drive Overcurrent between output phases drive Thermal protection motor  >= 500 mOhm 500 V DC for 1 minute for drive voltage 1 LED (red) for CANopen bus status four 7-segment display units  Time constant  5 ms for reference change Frequency resolution Analog input 0.1100 Hz Display unit 0.1 Hz Display unit 0.1 Hz Connector type 1 RJ45 Modbus/CANopen Physical interface RS485 multidrop serial link  Transmission frame RTU  Transmission frame RTU  Transmission Rate 10, 20, 50, 125, 250, 500 kbps or 1 Mbps CANopen 4800, 9600 or 19200 bps Modbus  Number of addresses 1127 CANopen 3.1 Modbus  Number of drive 127 CANopen 3.1 Modbus  Marking CE  Operating position Vertical +/- 10 degree  Outer dimension 232 x 180 x 170 mm 405 x 234 x 288 mm 300 x 210 x 170 mm 405 x 234 x 288 mm 300 x 210 x 170 mm Height 9.1 in (232 mm)  Width 7.09 in (180 mm)  Depth 6.8 in (172 mm)	Acceleration and deceleration	S, U or customized	
Input phase breaks drive Line supply overvoltage and undervoltage safety circuits drive Line supply phase loss safety function, for three phases supply drive Motor phase breaks drive Overcurrent between output phases and earth (on power up only) drive Overheating protection drive Short-circuit between motor phases drive Thermal protection motor  Insulation resistance >= 500 mOhm 500 V DC for 1 minute  Local signalling for drive voltage 1 LED (red) for CANopen bus status four 7-segment display units  Time constant 5 ms for reference change Frequency resolution Analog input 0.1100 Hz Display unit 0.1 Hz  Connector type 1 RJ45 Modbus/CANopen Physical interface RS485 multidrop serial link  Transmission frame RTU  Transmission frame RTU  Transmission Rate 10, 20, 50, 125, 250, 500 kbps or 1 Mbps CANopen 4800, 9600 or 19200 bps Modbus  Number of addresses 1127 CANopen 1247 Modbus  Number of drive 127 CANopen 31 Modbus  Marking CE  Operating position Vertical +/- 10 degree  Outer dimension 232 x 180 x 170 mm 405 x 234 x 268 mm 300 x 210 x 170 mm 405 x 234 x 268 mm 300 x 210 x 170 mm Height 9.1 in (332 mm)  Width 7.09 in (180 mm)  Depth 6.8 in (172 mm)	ramps		
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Display unit 0.1 Hz	Time constant	5 ms for reference change	
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A800, 9600 or 19200 bps Modbus	Transmission frame	RTU	
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1247 Modbus  Number of drive  127 CANopen 31 Modbus  Marking  CE  Operating position  Vertical +/- 10 degree  Outer dimension  232 x 180 x 170 mm 405 x 234 x 268 mm 300 x 210 x 170 mm  Height  9.1 in (232 mm)  Width  7.09 in (180 mm)  Depth  6.8 in (172 mm)		4800, 9600 or 19200 pps Modbus	
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Width 7.09 in (180 mm)  Depth 6.8 in (172 mm)		300 x 210 x 170 mm	
Depth 6.8 in (172 mm)	Height	9.1 in (232 mm)	
	Width	7.09 in (180 mm)	
Net Weight 14.3 lb(US) (6.5 kg)	Depth	6.8 in (172 mm)	
	Net Weight	14.3 lb(US) (6.5 kg)	

# **Environment**

Dielectric strength	2410 V DC between earth and power terminals 3400 V AC between control and power terminals	
Electromagnetic compatibility	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 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	
Standards	IEC 61800-3 IEC 61800-5-1	
Product Certifications	CSA DNV NOM GOST C-tick UL	
pollution degree	2	
Protective treatment	TC	

Vibration resistance	1 gn (f= 13150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 313 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27	
Relative humidity	595 % without condensation IEC 60068-2-3 595 % without dripping water IEC 60068-2-3	
Ambient Air Temperature for Storage	-13158 °F (-2570 °C)	
Ambient air temperature for operation	14122 °F (-1050 °C) without derating with protective cover on top of the drive) 14140 °F (-1060 °C) with derating factor without protective cover on top of the drive)	
cerating altitude <= 3280.84 ft (1000 m) without derating 3280.849842.52 ft (10003000 m) with current derating 1 % per 100 m		

# Ordering and shipping details

Category	US1CP4B22153
Discount Schedule	CP4B
GTIN	3606480077692
Returnability	No
Country of origin	ID

## **Packing Units**

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	8.97 in (22.788 cm)	
Package 1 Width	9.15 in (23.237 cm)	
Package 1 Length	11.74 in (29.832 cm)	
Package 1 Weight	13.4 lb(US) (6.1 kg)	
Unit Type of Package 2	S04	
Number of Units in Package 2	2	
Package 2 Height	11.81 in (30 cm)	
Package 2 Width	15.75 in (40 cm)	
Package 2 Length	23.62 in (60 cm)	
Package 2 Weight	29.48 lb(US) (13.37 kg)	
Unit Type of Package 3	PAL	
Number of Units in Package 3	18	
Package 3 Height	30.31 in (77 cm)	
Package 3 Width	23.62 in (60 cm)	
Package 3 Length	31.50 in (80 cm)	
Package 3 Weight	257.9 lb(US) (117 kg)	

## **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

#### **Use Better**

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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.

○ Repack and remanufacture	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.