

variable speed drive, Altivar 12, 1.5kW, 2hp, 200 to 240V, 1 phase, with heat sink

ATV12HU15M2

Product availability: Stock - Normally stocked in distribution facility

Price*: 348.84 USD

Main

Range Of Product	Altivar 12	
Product Or Component Type	Variable speed drive	
Product Specific Application	Simple machine	
Mounting Mode	Cabinet mount	
Communication Port Protocol	Modbus	
Supply Frequency	50/60 Hz +/- 5 %	
[Us] Rated Supply Voltage	200240 V - 1510 %	
Nominal Output Current	7.5 A	
Maximum Horse Power Rating	2 hp	
Motor Power Kw	1.5 kW	
Maximum Horse Power Rating	2 hp	
Emc Filter	Integrated	
Ip Degree Of Protection	IP20	

Complementary

•		
Discrete Input Number	4	
Discrete Output Number	2	
Analogue Input Number	1	
Analogue Output Number	1	
Relay Output Number	1	
Physical Interface	2-wire RS 485	
Connector Type	1 RJ45	
Continuous Output Current	7.5 A 4 kHz	
Method Of Access	Server Modbus serial	
Speed Drive Output Frequency	0.5400 Hz	
Speed Range	120	
Sampling Duration	20 ms +/- 1 ms logic input 10 ms analogue input	
Linearity Error	+/- 0.3 % of maximum value analogue input	
Frequency Resolution	Analog input converter A/D, 10 bits Display unit 0.1 Hz	

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

Transmission Rate 9.6 kbit/s 19.2 kbit/s 38.4 kbit/s Transmission Frame RTU Number Of Addresses 1247 Data Format 8 bits, configurable odd, even or no parity Communication Service Read holding registers (03) 29 words Write single register (06) 29 words Write withulpe registers (16) 27 words Read/write multiple registers (23) 4/4 words Read/write multiple registers (23) 29 words Read/write multiple registers (23) 4/4 words Read/write multiple registers (23) 4/4 words Read/write multiple registers (23) 4/4 wo		20 ms +/- 1 ms for reference change	
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Maximum Input Current Per Phase 14.9 A	ake Chopper Integrated	False	
	ne Current		
Maximum Output Voltage 240 V	aximum Input Current Per Phase	ISE 14.9 A	
maximum output votage 240 V	aximum Output Voltage	240 V	
Apparent Power 3.6 kVA 240 V heavy duty)	oparent Power	3.6 kVA 240 V heavy duty)	
Maximum Transient Current 11.2 A 60 s heavy duty)	aximum Transient Current	· · · · · · · · · · · · · · · · · · ·	
12.4 A 2 s heavy duty)		12.4 A 2 s heavy duty)	
Network Frequency 50-60 Hz	etwork Frequency	50-60 Hz	
Relative Symmetric Network 5 % Frequency Tolerance		5 %	
Prospective Line Isc 1 kA	ospective Line Isc	1 kA	
		7.5 A	
Base Load Current At High 7.5 A Overload	ower Dissipation In W	Forced cooling 72.0 W	
Overload		False	
Overload Power Dissipation In W Forced cooling 72.0 W		False	
Overload Power Dissipation In W Forced cooling 72.0 W With Safety Function Safely Limited Speed (SIs) False		False	
Overload Power Dissipation In W Forced cooling 72.0 W With Safety Function Safely Limited Speed (SIs) With Safety Function Safe Brake Management (Sbc/Sbt) False	ith Safety Function Safe		
Overload Power Dissipation In W Forced cooling 72.0 W With Safety Function Safely Limited Speed (SIs) With Safety Function Safe Brake Management (Sbc/Sbt) With Safety Function Safe False	ith Safety Function Safe perating Stop (Sos) ith Safety Function Safe	False	

With Safety Function Safe Speed Monitor (Ssm)	False	
With Safety Function Safe Stop 1 (Ss1)	False	
With Sft Fct Safe Stop 2 (Ss2)	False	
With Safety Function Safe Torque Off (Sto)	False	
With Safety Function Safely Limited Position (Slp)	False	
With Safety Function Safe Direction (Sdi)	False	
Protection Type	Line supply overvoltage Line supply undervoltage Overcurrent between output phases and earth Overheating protection Short-circuit between motor phases Against input phase loss in three-phase Thermal motor protection via the drive by continuous calculation of I²t	
Tightening Torque	10.62 lbf.in (1.2 N.m)	
Insulation	Electrical between power and control	
Quantity Per Set	Set of 1	
Width	4.13 in (105 mm)	
Height	5.59 in (142 mm)	
Depth	6.15 in (156.2 mm)	
Net Weight	3.09 lb(US) (1.4 kg)	

Environment

> 3280.846561.68 ft (> 10002000 m) with current derating 1 % per 100 m <= 3280.84 ft (1000 m) without derating	
Vertical +/- 10 degree	
NOM CSA C-tick UL GOST RCM	
CE	
UL 508C UL 618000-5-1 EN/IEC 61800-5-1 EN/IEC 61800-3	
With heat sink	
Electrical fast transient/burst immunity test level 4 EN/IEC 61000-4-4 Electrostatic discharge immunity test level 3 EN/IEC 61000-4-2 Immunity to conducted disturbances level 3 EN/IEC 61000-4-6 Radiated radio-frequency electromagnetic field immunity test level 3 EN/IEC 61000-4-3 Surge immunity test level 3 EN/IEC 61000-4-5 Voltage dips and interruptions immunity test EN/IEC 61000-4-11	
Class 3C3 according to IEC 60721-3-3 Class 3S2 according to IEC 60721-3-3	
150 m/s² at 11 ms	
10 m/s² at 13200 Hz	
1.5 mm at 213 Hz	
4226.83 Gal/hr(US) (16 m3/h)	

Overvoltage Category	Class III	
Regulation Loop	Adjustable PID regulator	
Electromagnetic Emission	Radiated emissions environment 1 category C2 EN/IEC 61800-3 216 kHz shielded motor cable Conducted emissions with integrated EMC filter environment 1 category C1 EN/IEC 61800-3 2, 4, 8, 12 and 16 kHz shielded motor cable <16.40 ft (5 m) Conducted emissions with additional EMC filter environment 1 category C1 EN/IEC 61800-3 412 kHz shielded motor cable <65.62 ft (20 m) Conducted emissions with additional EMC filter environment 1 category C2 EN/IEC 61800-3 412 kHz shielded motor cable <164.04 ft (50 m) Conducted emissions with additional EMC filter environment 2 category C3 EN/IEC 61800-3 412 kHz shielded motor cable <164.04 ft (50 m) Conducted emissions with integrated EMC filter environment 1 category C2 EN/IEC 61800-3 416 kHz shielded motor cable <16.40 ft (5 m) Conducted emissions with integrated EMC filter environment 1 category C2 EN/IEC 61800-3 2, 4, 8, 12 and 16 kHz shielded motor cable <32.81 ft (10 m)	
Vibration Resistance	1 gn 13200 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 313 Hz) - drive unmounted on symmetrical DIN rail - 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	
Noise Level	45 dB	
Pollution Degree	2	
Ambient Air Transport Temperature	-13158 °F (-2570 °C)	
Ambient Air Temperature For Operation	14122 °F (-1050 °C) without derating 122140 °F (5060 °C) with current derating 2.2 % per °C	
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)	

Ordering and shipping details

Category	US1CP4B22042	
Discount Schedule	CP4B	
Gtin	3606480071096	
Returnability	Yes	
Country Of Origin	ID	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	9.06 in (23.000 cm)	
Package 1 Width	7.87 in (20.000 cm)	
Package 1 Length	8.46 in (21.500 cm)	
Package 1 Weight	3.78 lb(US) (1.716 kg)	
Unit Type Of Package 2	P06	
Number Of Units In Package 2	30	
Package 2 Height	29.53 in (75.000 cm)	
Package 2 Width	23.62 in (60.000 cm)	
Package 2 Length	31.50 in (80.000 cm)	
Package 2 Weight	142.95 lb(US) (64.840 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	
Rohs Exemption Information	Yes

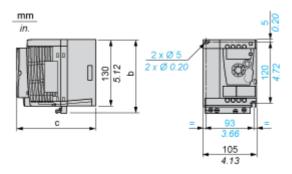
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
California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

ATV12HU15M2

Dimensions Drawings

Dimensions

Drive without EMC Conformity Kit



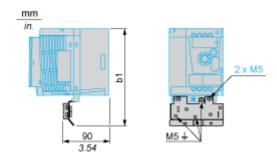
Dimensions in mm

b	С
142	156.2

Dimensions in in.

b	С
5.59	6.15

Drive with EMC Conformity Kit



Dimensions in mm

b1	
188.2	

Dimensions in in.

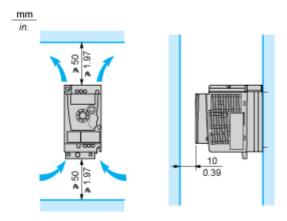
b1	
7.41	

ATV12HU15M2

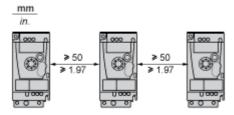
Mounting and Clearance

Mounting Recommendations

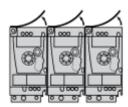
Clearance for Vertical Mounting



Mounting Type A

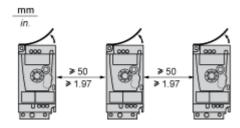


Mounting Type B



Remove the protective cover from the top of the drive.

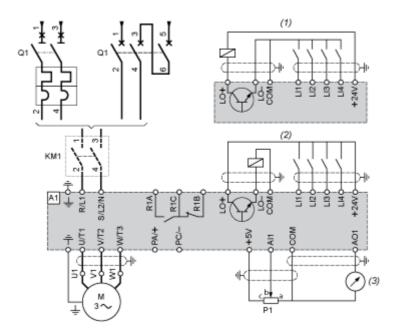
Mounting Type C



Remove the protective cover from the top of the drive.

Connections and Schema

Single-Phase Power Supply Wiring Diagram



A1 Drive

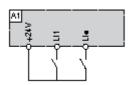
KM1 Contactor (only if a control circuit is needed)

P1 2.2 k Ω reference potentiometer. This can be replaced by a 10 k Ω potentiometer (maximum).

- Q1 Circuit breaker
- (1) Negative logic (Sink)
- (2) Positive logic (Source) (factory set configuration)
- (3) 0...10 V or 0...20 mA

Recommended Schemes

2-Wire Control for Logic I/O with Internal Power Supply

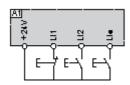


LI1: Forward

LI•: Reverse

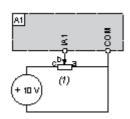
A1: Drive

3-Wire Control for Logic I/O with Internal Power Supply



LI1: Stop
LI2: Forward
LI•: Reverse
A1: Drive

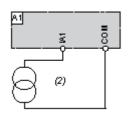
Analog Input Configured for Voltage with Internal Power Supply



(1) 2.2 k Ω ...10 k Ω reference potentiometer

A1: Drive

Analog Input Configured for Current with Internal Power Supply



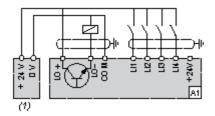
(2) 0-20 mA 4-20 mA supply

A1: Drive

Product data sheet

ATV12HU15M2

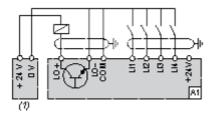
Connected as Positive Logic (Source) with External 24 vdc Supply



(1) 24 vdc supply

A1: Drive

Connected as Negative Logic (Sink) with External 24 vdc supply

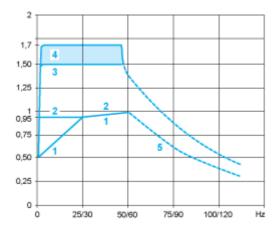


(1) 24 vdc supply

A1: Drive

Performance Curves

Torque Curves



- 1: Self-cooled motor: continuous useful torque (1)
- 2: Force-cooled motor: continuous useful torque
- 3: Transient overtorque for 60 s
- 4: Transient overtorque for 2 s
- 5: Torque in overspeed at constant power (2)
- (1) For power ratings \leq 250 W, derating is 20% instead of 50% at very low frequencies.
- (2) The nominal motor frequency and the maximum output frequency can be adjusted from 0.5 to 400 Hz. The mechanical overspeed capability of the selected motor must be checked with the manufacturer.