



Submittal Data Information

Advantage 312 Variable Speed Drive

301-1897

EFFECTIVE: AUGUST 1, 2010

SUPERSEDES: JULY 1, 2010

JOB _____ ENGINEER _____

CONTRACTOR _____ REP. _____

ITEM NO.	MODEL NO.	HP/KW.	SUPPLY VOLTAGE	WEIGHT	
	OPTION		OPTION	OPTION	

SPECIFICATIONS:

HP	kW	Amps	Drive Reference	Dimensions			
				W	H	D	Wgt.
Supply Voltage: Three-phase 525...600 V							
1	0.75	1.7	ATV312H075S6M	4.21 (107)	5.63 (143)	5.98 (152)	2.98 (1.35)
2	1.5	2.7	ATV312HU15S6M	4.21 (107)	5.63 (143)	5.98 (152)	2.98 (1.35)
4	2.2	3.9	ATV312HU22S6M	5.59 (142)	7.24 (184)	5.98 (152)	5.18 (2.35)
5	4	6.1	ATV312HU40S6M	5.59 (142)	7.24 (184)	5.98 (152)	5.18 (2.35)
7.5	5.5	9	ATV312HU55S6M	7.09 (180)	9.13 (232)	6.77 (172)	10.36 (4.70)
10	7.5	11	ATV312HU75S6M	7.09 (180)	9.13 (232))	6.77 (172)	10.36 (4.70)
15	11	17	ATV312HD11S6M	9.64 (245)	12.99 (330)	7.56 (192)	19.84 (9.00)
20	15	22	ATV312HD15S6M	9.64 (245)	12.99 (330)	7.56 (192)	19.84 (9.00)

Dimensions are in inches (millimeters). Metric data is presented in ().
Weights are in pounds (Kg). Kg weight is presented in ().

Environmental Specifications	
Operating temperature	+14° to +122° F (-10° to +50° C) without derating, up to 140° F (60° C) with derating
Storage temperature	-13° to +158° F (-25° to +70° C)
Humidity	95% with no condensation or dripping water, conforming to IEC 600068-2-3
Altitude	3300 ft. (1000 m) without derating 3300-9850 ft. (1000-3000 m) derate output current by 1% for each additional 330 ft. (100 m). Limited to 6560 ft. (2000 m) on a single phase or a corner grounded distribution system.
Enclosure rating	IP20 rating with optional conduit kits for UL Type 1
Vibration resistance	Conforming to IEC 60068-2-6: 1.5 mm peak to peak from 3 Hz to 13 Hz, 1 gn from 13 to 150 Hz
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27

Communication Options	
Protocol	Reference
Profibus	VW3A31207M
CANopen Daisy Chain	VW3A31208M
DeviceNet	VW3A31209M

Electrical Specifications	
Input voltage	525 V -15% to 600 V +10%
Input frequency	50 Hz -5% to 60 Hz +5%
Output frequency	0.5 to 500 Hz
Torque/overtorque	170...200% of nominal motor torque
Current (transient)	150% for 60 seconds
Switching Frequency	Selectable from 2 kHz to 16 kHz (ranges vary depending on drive)
Functions	50
Preset speeds	16
Analogue inputs	3
Analogue outputs	1
Logic inputs	6
Relay outputs	2
Motor control profiles (asynchronous motors)	Voltage/frequency
	Sensorless flux vector control
	Quadratic ratio for pumps and fans
	Energy saving
Speed range	50:1
Codes and standards	UL, CSA, CE, NOM, GOST and C-Tick



In order to provide the most efficient pump solution to our customers, Taco is now working with Schneider Electric.

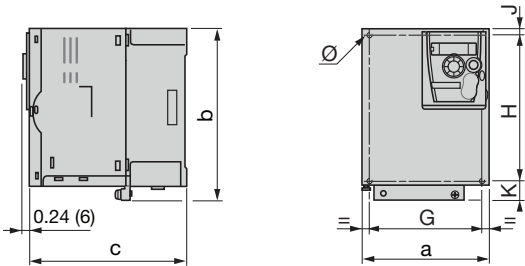
This collaboration brings together Taco's pump technology with Schneider Electric Variable Frequency Drives and the drive packaging of Square D enclosures to offer the best overall pumping solution for our customers.



DIMENSIONS:

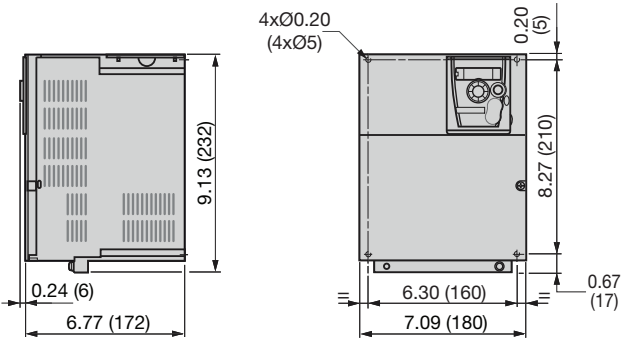
Dimensions are in inches (millimeters). Metric data is presented in ().

**ATV312HO75S6M, ATV312HU15S6M,
ATV312HU22S6M, ATV312HU40S6M**

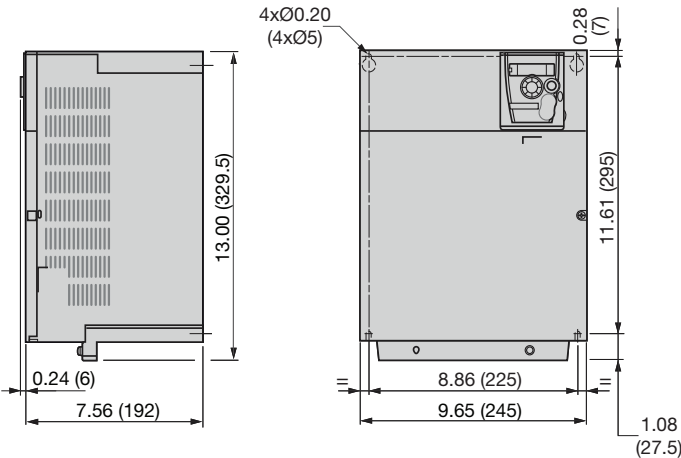


Advantage 312	a	b	c	G	H	J	K	Ø
H075S6M, HU15S6M	4.21 (107)	5.63 (143)	5.98 (152)	3.66 (93)	4.78 (121.5)	0.20 (5.0)	0.65 (16.5)	2xØ0.20 (2xØ5)
HU22S6M, HU40S6M	5.59 (142)	7.24 (184)	5.98 (152)	4.96 (126)	6.18 (157)	0.26 (6.5)	0.81 (20.5)	4xØ0.20 (4xØ5)

ATV312HU55S6M, ATV312HU75S6M



ATV312HD11S6M, ATV312HD15S6M



Schneider Electric, the Schneider Electric logo, Square D, the Square D logo, E-Flex, M-Flex, S-Flex, PowerGard, Modbus, FIPIO, and Uni-Telway are trademarks or registered trademarks of Schneider Electric or its affiliates in the United States and other countries, used by permission.

systems made easy®

TACO, INC., 1160 Cranston Street, Cranston, RI 02920 Telephone: (401) 942-8000 FAX: (401) 942-2360.

TACO (Canada), Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8. Telephone: 905/564-9422. FAX: 905/564-9436.

Visit our web site at: <http://www.taco-hvac.com>

Printed in USA

Copyright 2010

TACO, Inc.