

## The Reference : How does it work?

# ATV

**Product Type**  
320: IP20

**Factor for power rating**  
U: power \* 0.1  
D: power \* 1

**Supply Voltage**  
M2: 200/240V 1 phase  
M3: 200/240V 3 phase  
N4: 400/480V 3 phase  
S6: 575/600V 3 phase

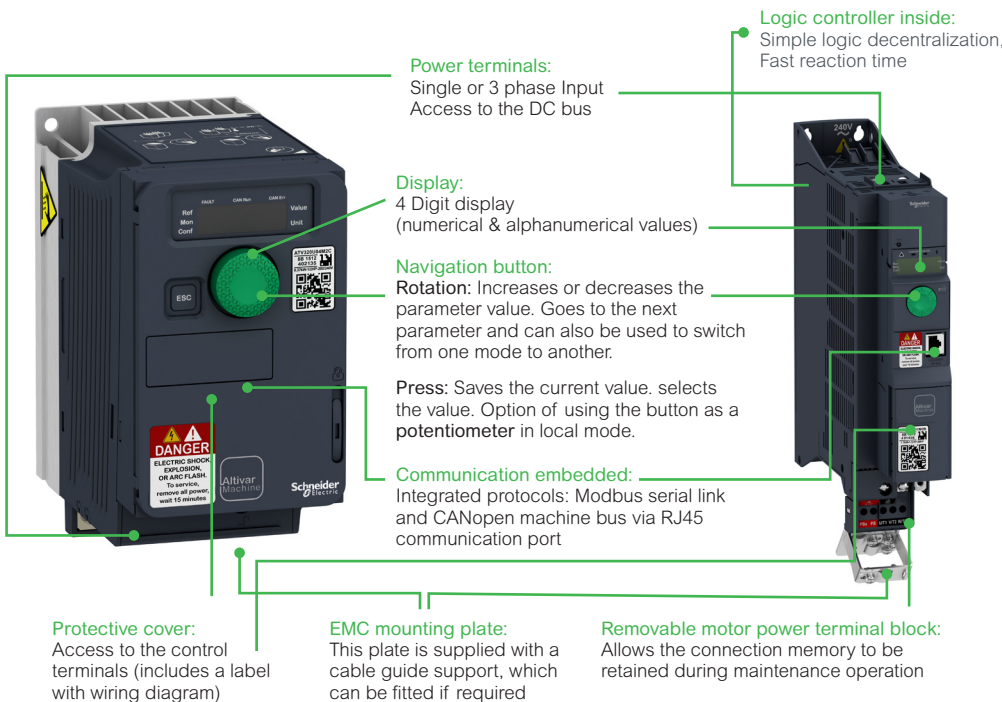
**Product Form Factor**  
B: " Book" format  
C: " Compact format  
W: IP66 body  
WS: IP65 with switch disconnect

<b>Power Rating</b>	<b>15</b> : 2 hp & 20 hp / 1.5 kW & 15 kW
<b>02</b> : 0.25 hp / 0.18 kW	<b>22</b> : 3 hp / 2.2 kW
<b>04</b> : 0.5 hp / 0.37 kW	<b>30</b> : 2.2 hp / 3 kW
<b>06</b> : 0.75 hp / 0.55 kW	<b>40</b> : 5 hp / 4 kW
<b>07</b> : 1 hp / 0.75 kW	<b>55</b> : 7.5 hp / 5.5 kW
<b>11</b> : 1.5 hp & 15 hp / 1.1 kW & 11 kW	<b>75</b> : 10 hp / 7.5 kW

## The Product

### Advance VFD functions

PID, Jog functions, DC injection braking, 16 preset speeds 6 macros applications, (Start/Stop, Handling, Hoisting, General use, PID, Communication) Torque limitation, Load sharing, Master/Slave, Traverse control, Parameters Switching(up to 15 parameters), Catch on Fly.



## The 5 Main Benefits

### Robust Design

Can operate in harsh environment up to 50C without derating. Printed Circuit board with 3C3 and 3S2 Standard

1

### Advance Connectivity

CANopen & Modbus RTU are embedded & Modbus/TCP, Ethernet/IP, PROFIBUS DP V1, DeviceNet, EtherCAT, POWERLINK, PROFINET are available as option

2

### 5 Integrated Safety Functions

STO, SLS, SMS, SS1 & GDL safety functions are integrated to meet the requirements of specialised applications

3

### Flexible

Compact and book format to be integrated in all cabinet types

4

### Effective motor control

Can control both asynchronous & synchronous motors

5

## Configuration Tools



SoMove Setup Software



Simple loader (VW3A8120) and Multi-Loader Configuration Tool (VW3A8121)



Communication Adaptor (VW3A3600)



Simple Keypad (VW3A1006)



Advanced Graphic Keypad (VW3A1111)

Advanced Keypad (VW3A1101)

## Characteristics

### 6 Digital Inputs:

4 configurable for +/- digital input, one PTC

### 3 Analog Inputs:

1 Bipolar differential  $\pm 10$  V, 1 with Voltage 0-10 V and 1 with current (0-20 mA)

### 1 Analog Output:

Configurable as voltage (0-10 V) or current (0-20 mA)

### 1 Digital Output:

programmable, max voltage 30 V & maximum current 100mA

### 2 Relay Output:

1 with NO/NC contacts and 1 with NO contacts

### APPLICATIONS

- » Packing
- » Textiles
- » Mechanical Actuators
- » Material Handling
- » Material Working
- » Hoisting

# Offer Range

Motor Power		Max. continuous output current	Single phase 200 & 240V 50/60Hz	Dimensions (mm)		
hp	kW	A	*	W	H	D*
0.25	0.18	1.5	ATV320U02M2C	72	143	109
			ATV320U02M2B	45	325	245
			ATV320U02M2W	250	340	182
			ATV320U02M2WS			
0.5	0.37	3.3	ATV320U04M2C	72	143	128
			ATV320U04M2B	45	325	245
			ATV320U04M2W	250	340	182
			ATV320U04M2WS			
0.75	0.55	3.7	ATV320U06M2C	72	143	138
			ATV320U06M2B	45	325	245
			ATV320U06M2W	250	340	182
			ATV320U06M2WS			
1	0.75	4.8	ATV320U07M2C	72	143	138
			ATV320U07M2B	45	325	245
			ATV320U07M2W	250	340	182
			ATV320U07M2WS			
1.5	1.1	6.9	ATV320U11M2C	105	142	158
			ATV320U11M2B	60	325	245
			ATV320U11M2W	250	340	235
			ATV320U11M2WS			
2	1.5	8	ATV320U15M2C	105	142	158
			ATV320U15M2B	60	325	245
			ATV320U15M2W	250	340	235
			ATV320U15M2WS			
3	2.2	11	ATV320U22M2C	105	142	158
			ATV320U22M2B	60	325	245
			ATV320U22M2W	250	340	235
			ATV320U22M2WS			

\*C:\*B:IP20 \*W:IP66 \*WS:IP65 with vario

Motor Power		Max. continuous output current	Three phase 200 & 240V 50/60Hz	Dimensions (mm)		
hp	kW	A	IP20	W	H	D*
0.25	0.18	1.5	ATV320U02M3C	72	143	109
0.5	0.37	3.3	ATV320U04M3C	72	143	128
0.75	0.55	3.7	ATV320U06M3C	72	143	138
1	0.75	4.8	ATV320U07M3C	72	143	138
1.5	1.1	6.9	ATV320U11M3C	105	143	138
2	1.5	8	ATV320U15M3C	105	143	138
3	2.2	11	ATV320U22M3C	105	143	138
4	3	13.7	ATV320U30M3C	140	184	158
5	4	17.5	ATV320U40M3C	140	184	158
7.5	5.5	27.5	ATV320U55M3C	150	232	178
10	7.5	33	ATV320U75M3C	150	232	178
15	11	54	ATV320D11M3C	180	330	198
20	15	66	ATV320D15M3C	180	330	198

Motor Power		Max. continuous output current	Three phase 380 & 500V 50/60Hz	Dimensions (mm)		
hp	kW	A	*	W	H	D*
0.5	0.37	1.5	ATV320U04N4C	105	143	158
			ATV320U04N4B	45	325	245
			ATV320U04N4W	250	340	200
			ATV320U04N4WS			
0.75	0.55	1.9	ATV320U06N4C	105	143	158
			ATV320U06N4B	45	325	245
			ATV320U06N4W	250	340	200
			ATV320U06N4WS			
1	0.75	2.3	ATV320U07N4C	105	143	158
			ATV320U07N4B	45	325	245
			ATV320U07N4W	250	340	200
			ATV320U07N4WS			
1.5	1.1	3	ATV320U11N4C	105	143	158
			ATV320U11N4B	45	325	245
			ATV320U11N4W	250	340	200
			ATV320U11N4WS			
2	1.5	4.1	ATV320U15N4C	105	143	158
			ATV320U15N4B	45	325	245
			ATV320U15N4W	250	340	200
			ATV320U15N4WS			
3	2.2	5.5	ATV320U22N4C	140	184	158
			ATV320U22N4B	60	325	245
			ATV320U22N4W	250	340	235
			ATV320U22N4WS			
4	3	7.1	ATV320U30N4C	140	184	158
			ATV320U30N4B	60	325	245
			ATV320U30N4W	250	340	235
			ATV320U30N4WS			
5	4	9.5	ATV320U40N4C	140	184	158
			ATV320U40N4B	60	325	245
			ATV320U40N4W	250	340	235
			ATV320U40N4WS			
7.5	5.5	14.3	ATV320U55N4C	150	232	178
			ATV320U55N4B	150	308	232
			ATV320U55N4W	320	521	300
			ATV320U55N4WS	320	521	335
10	7.5	17	ATV320U75N4C	150	232	178
			ATV320U75N4B	150	308	232
			ATV320U75N4W	150	521	300
			ATV320U75N4WS	150	521	335
15	11	27.7	ATV320D11N4C	180	330	198
			ATV320D11N4B	180	330	232
20	15	33	ATV320D15N4C	180	330	198
			ATV320D15N4B	180	330	232

Motor Power		Max. continuous output current	Three phase 525 & 600V 50/60Hz	Dimensions (mm)		
hp	kW	A	IP20	W	H	D*
1	0.75	1.7	ATV320U07S6C	105	142	158
2	1.5	2.7	ATV320U15S6C	105	142	158
3	2.2	3.9	ATV320U22S6C	140	184	158
5	4	6.1	ATV320U40S6C	140	184	158
7.5	5.5	9	ATV320U55S6C	150	232	178
10	7.5	11	ATV320U75S6C	150	232	178
15	11	17	ATV320D11S6C	180	330	198
20	15	22	ATV320D15S6C	180	330	198

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