



# SE Drives Product Offer Ranges

	Standard Drives			Easy Drives	
 <p>Machines</p>	<p><b>Basic Applications</b></p>  <p>ATV12 0.18...4kW 100...240V</p>	<p><b>Simple Applications</b></p>  <p>Altivar 320 Book format 0.18...15kW 200...500V</p> <p>Altivar 320 ComPact format 0.18...15kW 200...500V</p>	<p><b>Advanced Application</b></p>  <p>Altivar 340 Book format 0.75...75kW 380...480V</p>	<p><b>Simple Machine</b></p>  <p>Altivar 310 0.35-11kW 380...460V</p>	
 <p>Building</p>	<p><b>HVAC</b></p>  <p>ATV212 0.75...75kW 200...480V</p>  <p>ATV600 IP21   IP55 - Nema 12 0.75...800kW 200...690V</p>			<p><b>HVAC</b></p>  <p>Altivar 310 0.37-11kW 380...460V</p>  <p>Altivar 610 0.75-160kW 380...415V</p>	
 <p>Process</p>	<p><b>Utilities Control</b></p>  <p>ATV600 IP21   IP55 - Nema 12 0.75...800kW 200...690V</p>	<p><b>Process Control</b></p>  <p>ATV900 IP21   IP55 - Nema 12 0.75...800kW 200...690V</p>		<p><b>Utilities Control</b></p>  <p>Altivar 610 0.75-160kW 380...415V</p>	
 <p>Soft Starter</p>	<p><b>Machine</b></p>  <p>Altistart 01 3...32A 110...480V</p>  <p>Altistart 22 17...590A 208...600V</p>	<p><b>Machine</b></p>  <p>Altivar ATS480 17...1200A 208...690V</p>			

# Altivar Process ATV6000

Medium voltage variable speed drive from 2.4 to 13.8 and 0.3 to 20 MW



A smart, connected drive system which helps optimize your business through process optimization, energy management improvements and asset management

## Features

The Altivar™ Process ATV6000 services-oriented drive completes the Altivar Process range with a solution to address your medium voltage operation and maintenance challenges

### Services-oriented drives

Improved operator efficiency with

- Easy access by QR code for online and remote support

- Comfortable usability with the connected 10" Magelis HMI screen, also supported by storage oscilloscope function

- Real-time intelligence enabled by native ethernet and embedded webserver

Fast and easy on-site maintenance operation with

- WellHoroven LV IGBT design

- Modular architecture

- Easy front access design

**With Digital services, ATV6000 manages the integrity of your equipment, your finances (OpEx and CapEx), and the performance of your production by**

- Continuous monitoring on critical asset health and level of stress

- 360° diagnostics on risk assessment, with report and analysis

- Risk mitigation plan with anticipated actions to take

- Access to 24/7 Schneider Electric service assistance

up to  
20%\*

Improved productivity

\* Based on previous data.

up to  
30%\*

Reduced energy

consumption

up to  
20%\*

Reduced downtime

This is not a guarantee of future performance or performance in your particular circumstance

## Energy Management to help you optimize and reduce your energy consumption thanks to:

- Embedded power management with < 5% measurement accuracy
- Best Efficiency Point function for pumps
- Lifetime monitoring on energy usage and inbuilt energy dashboard
- Phase shifted transformer for highly reduced THDi input on grid
- Integrated transformer with galvanic insulation feature
- Low dV/dt inverter providing power without high over-voltage at motor side

## Process Optimization

- Cellby pass feature
- N+1 and N+2 power cell design for redundancy
- Best Efficiency Point function for pumps
- Solid and easily deployed Tested and validated applicative architecture (TVDA)
- Fully compatibility with Schneider Electric EcoStruxure Process Automation Systems (hybrid & DCS systems)
- Super sensor capabilities for predictive maintenance planning
- Dedicated applicative control (droop control, fan/pump function etc)

## Tailored Solution

- Application experts provide optimized engineering solution for operational efficiency and investment optimization
- Design process is simplified and system implementation time is shortened
- High level of customization to fit to purpose

## Benefits

- Tailored solutions to optimize your operation efficiency and investment
- Optimized usage of energy and reduce consumption
- Reduced downtime and improve uptime
- Minimized Total Cost of Ownership & increase profitability
- Improved productivity & availability

## Applications

### MMM

Overland conveyor, Single/multi flat conveyor, Transfer conveyor, Belt conveyor, High Pressure Grinding Roller, SAG/Ball mill, Vertical roller Mill, Jaw crusher mill, Sintering/De-dusting/ID fan, Mill fan, Blast Furnace, Slurry pump, Rotary kiln

### WWW

Natural spring/well/pump, Electro submersible pump, Raw water intake pump, Lifting station, High pressure pump, Air blower/compressor, Booster pump, Multi-pump station, Distribution pump.

### O&G

Electric submersible pump, Crude oil transfer pump, injection pump, FPSO pumps/compressors, LNG compressor, Gas booster compressor, Load commute inverter retrofit (compressors), Petrochemical fan/pump, Extruder, Mixer, Blower

### Power plants

Coal belt conveyor, Coal mill, Oil pump, Boiler feed-water pump, Cooling water circulation pump, Primary/Secondary draft fan/ ID fan, Cooling water fan, Condense water pump, Fuel gas booster compressor, Boiler (HRSG)

Over 30 functions dedicated to pumping applications as well as functions for fan and simple material handling applications.

Trên 30 chức năng cho các ứng dụng Bơm, Quạt và các ứng dụng đơn giản trong ngành xử lý vật liệu.

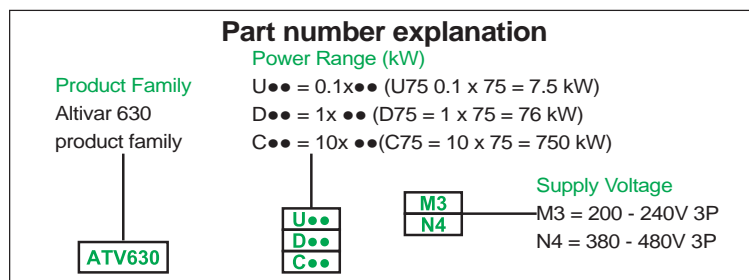


**ATV630U07M3**

Unit price (incl.VAT) in VND

UL Type 1/IP 21, 3-phase supply voltage: 200...240VAC, 50/60Hz						
Power indicated on rating plate motor (2)			Line current (3)		Reference(1)	Unit Price
ND: Normal Duty (4)			200 V	240 V		
HD: Heavy Duty (5)						
	HP	KW	A	A		
ND	1	0,75	3	2,6	ATV630U07M3	39.721.000
HD	0,5	0,4	1,7	1,5		
ND	2	1,5	5,9	5	ATV630U15M3	41.035.500
HD	1	0,8	3,3	3		
ND	3	2,2	8,4	7,2	ATV630U22M3	44.671.000
HD	2	1,5	6	5,3		
ND	-	3	11,5	9,9	ATV630U30M3	46.167.000
HD	3	2,2	8,7	7,6		
ND	5	4	15,1	12,9	ATV630U40M3	47.641.000
HD	-	3	11,7	10,2		
ND	7,5	5,5	20,2	17,1	ATV630U55M3	51.595.500
HD	5	4	15,1	13		
ND	10	7,5	27,1	22,8	ATV630U75M3	67.908.500
HD	7,5	5,5	20,2	17,1		
ND	15	11	39,3	32,9	ATV630D11M3	74.965.000
HD	10	7,5	27,2	23,1		
ND	20	15	52,6	45,5	ATV630D15M3	89.556.500
HD	15	11	40,1	34,3		
ND	25	18,5	66,7	54,5	ATV630D18M3	94.380.000
HD	20	15	53,1	44,9		
ND	30	22	76	64,3	ATV630D22M3	95.386.500
HD	25	18,5	64,8	54,5		
ND	40	30	104,7	88,6	ATV630D30M3	144.705.000
HD	30	22	78,3	67,1		
ND	50	37	128	107,8	ATV630D37M3	156.211.000
HD	40	30	104,7	88,6		
ND	60	45	155,1	130,4	ATV630D45M3	179.685.000
HD	50	37	128,5	108,5		
ND	75	55	189	161	ATV630D55M3	244.106.500
HD	60	45	156	134		
ND	100	75	256	215	ATV630D75M3	238.480.000
HD	75	55	189	161		

(\*) Please contact Schneider Electric distributor for price request  
 (1) Altivar Process ATV630D11M3...D45M3 drives have been designed without an EMC filter. An additional filter can be added to help meet more stringent requirements and reduce electromagnetic emissions.  
 (2) These values are given for a nominal switching frequency of 4 kHz up to ATV630D22M3, or 2.5 kHz for ATV630D30M3...D45M3 for use in continuous operation.  
 The switching frequency is adjustable from 1... 16 kHz for all ratings.  
 Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.  
 For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves on our website [www.schneider-electric.com](http://www.schneider-electric.com)).  
 (3) Typical value for the indicated motor power and for the maximum prospective line Isc.  
 (4) Normal duty applications requiring an overload up to 110% for 60 seconds. Also known as variable torque loads  
 (5) Heavy duty applications requiring an overload up to 150% for 60 seconds. Also known as constant torque loads.



Over 30 functions dedicated to pumping applications as well as functions for fan and simple material handling applications.

Trên 30 chức năng cho các ứng dụng Bơm, Quạt và các ứng dụng đơn giản trong ngành xử lý vật liệu.

Unit price (incl.VAT) in VND

**UL Type 1/IP 21, 3-phase supply voltage: 200...240VAC, 50/60Hz**



ATV630D15N4



ATV630D55N4



ATV630C11N4

Power indicated on rating plate motor (1) ND: Normal Duty (3) HD: Heavy Duty (4)			Line current (3)		Reference(1)	Unit Price
			380 V	480 V		
HP	KW	A	A			
ND 1	0.75	1.5	1.3	ATV630U07N4	39.858.500	
HD 0.5	0.37	0.9	0.8			
ND 2	1.5	3	2.6	ATV630U15N4	40.106.000	
HD 1	0.75	1.7	1.5			
ND 3	2.2	4.3	3.8	ATV630U22N4	40.804.500	
HD 2	1.5	3.1	2.9			
ND -	3	5.8	5.1	ATV630U30N4	41.316.000	
HD 3	2.2	4.5	4			
ND 5	4	7.6	6.7	ATV630U40N4	41.503.000	
HD -	3	6	5.4			
ND 7.5	5.5	10.4	9.1	ATV630U55N4	41.816.500	
HD 5	4	8	7.2			
ND 10	7.5	13.8	11.9	ATV630U75N4	47.767.500	
HD 7.5	5.5	10.5	9.2			
ND 15	11	19.8	17	ATV630D11N4	49.621.000	
HD 10	7.5	14.1	12.5			
ND 20	15	27	23.3	ATV630D15N4	67.408.000	
HD 15	11	20.6	18.1			
ND 25	18.5	33.4	28.9	ATV630D18N4	68.876.500	
HD 20	15	27.7	24.4			
ND 30	22	39.6	34.4	ATV630D22N4	71.907.000	
HD 25	18.5	34.1	29.9			
ND 40	30	53.3	45.9	ATV630D30N4	90.359.500	
HD 30	22	40.5	35.8			
ND 50	37	66.2	57.3	ATV630D37N4	92.911.500	
HD 40	30	54.8	48.3			
ND 60	45	79.8	69.1	ATV630D45N4	97.377.500	
HD 50	37	67.1	59.0			
ND 75	55	97.2	84.2	ATV630D55N4	138.314.000	
HD 60	45	81.4	71.8			
ND 100	75	131.3	112.7	ATV630D75N4	145.310.000	
HD 75	55	98.9	86.9			
ND 125	90	156.2	135.8	ATV630D90N4	174.141.000	
HD 100	75	134.3	118.1			
ND 150	110	201	165	ATV630C11N4(5)	Contact for price	
HD 125	90	170	143			
ND 200	132	237	213	ATV630C13N4(5)	Contact for price	
HD 150	110	201	165			
ND 250	160	284	262	ATV630C16N4(5)	Contact for price	
HD 200	132	237	213			
ND 350	220	397	324	ATV630C22N4 (5)	Contact for price	
HD 250	160	296	246			
ND 400	250	451	366	ATV630C25N4 (5)	Contact for price	
HD 350	220	365	301			
ND 500	315	569	461	ATV630C31N4 (5)	Contact for price	
HD 400	250	457	375			

(\*) Please contact Schneider Electric distributor for price request

(1) These values are given for a nominal switching frequency of 4 kHz up to ATV630D45N4, or 2.5 kHz for ATV630D55N4...D90N4 for use in continuous operation. The switching frequency is adjustable from 1...16 kHz for all ratings.

Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.

For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves on our website [www.schneiderelectric.com](http://www.schneiderelectric.com)).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Normal duty applications requiring overload up to 110% for 60 seconds. Also known as variable torque loads.

(4) Heavy duty application requiring an overload up to 150% for 60 seconds. Also known as constant torque loads.

(5) Product supplied as IP 00 for mounting in an enclosure. For IP 21/UL Type 1 wall mounting, order separately the kit for IP21/UL Type 1 conformity VW3A9704.

Over 30 functions dedicated to pumping applications as well as functions for fan and simple material handling applications.

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Unit price (incl.VAT) in VND



ATV630C16N4F

**IP 21, category C3 integrated EMC filter - Floor standing (60  
3-phase supply voltage: 380...440VAC, 50/60Hz**

Power indicated on rating plate motor (1)			Line current (2)		Reference(1)	Unit Price
ND: Normal Duty (3)			380 V	480 V		
HD: Heavy Duty (4)						
	HP	KW	A	A		
ND	-	110	207	195	ATV630C11N4F	521.427.500
HD	-	90	174	164		
ND	-	132	250	232	ATV630C13N4F	539.506.000
HD	-	110	207	197		
ND	-	160	291	277	ATV630C16N4F	552.018.500
HD	-	132	244	232		
ND	-	200	369	349	ATV630C20N4F	896.599.000
HD	-	160	302	286		
ND	-	250	453	432	ATV630C25N4F	944.273.000
HD	-	200	369	353		
ND	-	315	566	538	ATV630C31N4F	920.293.000
HD	-	250	453	432		

(\*) Please contact Schneider Electric distributor for price request

(1) These values are given for a nominal switching frequency of 4 kHz up to ATVB30D45N4, or 2.5 kHz for ATVB30D5S8NA4...D90N4 for use in continuous operation.

The switching frequency is adjustable from 1... 16 kHz for all ratings.

Above 2.8 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves on our website [www.schneiderelectric.com](http://www.schneiderelectric.com)).

(2) Typical value for the indicated motor power and for the maximum prospective line  $I_{sc}$ .

(3) Normal duty applications requiring an overload up to 110% for 60 seconds. Also known as variable torque loads.

(4) Heavy duty applications requiring an overload up to 180% for 60 seconds. Also known as constant torque loads.

(6) Intergrated motor chokes allowing a shielded motor cable length up to 300 m/984 F in category C3 and an unshielded cable length up to 450 m/1476 ft in category C4.

For three-phase asynchronous motors from 0.75 to 160 kW.

Power supply: 380-415VAC, 50/60Hz.

Plug & play solution, 7 pre-programmed function blocks cover 90% of the fan and pump applications.

Unit price (incl.VAT) in VND

**IP 20 three-phase 380...460 V drives with integrated category C3 EMC filter**

Motor Power indicated on rating plate			Maximum continuous output current (In) (1)	Maximum transient current for 60s	Reference	Unit price
kW	HP	Duty (*)	A	A		
0.75	1	ND	2.2	2.4	ATV610U07N4	27.225.000
0.37	0.5	HD	1.5	2.3		
1.5	2	ND	4	4.4		
0.75	1	HD	2.2	3.3	ATV610U15N4	28.594.500
2.2	3	ND	5.6	6.2	ATV610U22N4	28.935.500
1.5	2	HD	4	6		
3	4	ND	7.2	7.9	ATV610U30N4	30.090.500
2.2	3	HD	5.6	8.4		
4	5	ND	9.3	10.2	ATV610U40N4	31.773.500
3	4	HD	7.2	10.8		
5.5	7.5	ND	12.7	14	ATV610U55N4	34.485.000
4	5	HD	9.3	14		
7.5	10	ND	15.8	17.4	ATV610U75N4	35.728.000
5.5	7.5	HD	12.7	19.1		
11	15	ND	23.5	25.9	ATV610D11N4	40.370.000
7.5	10	HD	16.5	24.8		
15	20	ND	31.7	34.9	ATV610D15N4	43.455.500
11	15	HD	23.5	35.3		
18.5	25	ND	39.2	43.1	ATV610D18N4	54.114.500
15	20	HD	31.7	47.6		
22	30	ND	46.3	50.9	ATV610D22N4	55.550.000
18.5	25	HD	39.2	58.8		
30	40	ND	61.5	67.7	ATV610D30N4	75.542.500
22	30	HD	46.3	69.5		
37	50	ND	74.5	82	ATV610D37N4	78.672.000
30	40	HD	59.6	89.4		
45	60	ND	88	97	ATV610D45N4	85.079.500
37	50	HD	74.5	112		
55	75	ND	120	132	ATV610D55N4	128.194.000
45	60	HD	88	132		
75	100	ND	145	160	ATV610D75N4	132.176.000
55	75	HD	106	159		
90	125	ND	173	190	ATV610D90N4	142.208.000
75	100	HD	145	218		
110	149	ND	211	232	ATV610C11N4	238.782.500
90	125	HD	173	260		
132	178	ND	250	275	ATV610C13N4	252.923.000
110	149	HD	211	317		
160	216	ND	302	332	ATV610C16N4	260.804.500
132	178	HD	250	375		

(\*) Duty: HD overload up to 150% for 60 s - ND overload up to 110% for 60 s or 120% for 20 s



For three-phase asynchronous motors from 0.37kW to 22kW.

Power supply: 380-460VAC, 50/60Hz.

Output frequency range from 0.5 to 400 Hz for applications: pump, fan, conveyor, simple machines,...

Unit price (incl.VAT) in VND

**Drives with heatsink - Three-phase supply voltage: 380...460 V 50/60 Hz**



Motor Power indicated on rating plate			Maximum continuous output current (In) (1)	Maximum transient current for 60s	Reference	Unit price
kW	HP	Duty (*)	A	A		
0.37	0.37	0.37	0.37	0.37	ATV310H037N4E	9.201.500
0.75	0.75	0.75	0.75	0.75	ATV310H075N4E	9.284.000
1.5	1.5	1.5	1.5	1.5	ATV310HU15N4E	9.955.000
2.2	2.2	2.2	2.2	2.2	ATV310HU22N4E	11.478.500
3	3	3	3	3	ATV310HU30N4E	13.486.000
4	4	4	4	4	ATV310HU40N4E	13.821.500
5.5	5.5	5.5	5.5	5.5	ATV310HU55N	17.110.500
7.5	7.5	7.5	7.5	7.5	ATV310HU75N	20.311.500
11	11	11	11	11	ATV310HD11N	25.162.500
15	15	15	15	15	ATV310HD15N	35.046.000
18.5	18.5	18.5	18.5	18.5	ATV310HD18N	36.448.500
22	22	22	22	22	ATV310HD22N	41.805.500

(\*) Duty: HD overload up to 150% for 60 s - ND overload up to 110% for 60 s

Numerous accessories and options to increase their functionality and also their capacity for integration and adaptation.

Các phụ kiện và tùy chọn nâng cao chức năng và khả năng tích hợp và tương thích với hệ thống

Unit price (incl.VAT) in VND



VW3A1111

### For remote mounting graphic display

Description	Length (m/ft)	Reference	Unit Price
Graphic display terminal (supplied with drive)		VW3A1111	7.551.500
Remote mounting kit			
Order with remote-mounting cordset VW3A1104R...		VW3A1112	1.705.000
	1/3.28	VW3A1104R10	759.000
Remote-mounting cordset equipped with 2 RJ45 connectors	3/9.84	VW3A1104R30	869.000
	5/16.40	VW3A1104R50	896.500
	10/32.81	VW3A1104R100	1.221.000



VW3A1112

### I/O expansion cards

Description	Reference	Unit Price
I/O expansion option card		
6 logic inputs, 2 logic outputs, 1 analog input	VW3A3203	9.784.500
Relay outputs card		
3 Relay outputs with NO contacts	VW3A3204	7.975.000



VW3A3720

### Communication cards

Description	Reference	Unit Price
CANopen daisy chain card w/ 2 RJ45 connectors	VW3A3608	4.334.000
CANopen SUB-D card	VW3A3618	4.966.500
EtherNet/IP and Modbus TCP dual port card	VW3A3720	19.255.500
ProfiNet card w/ 2 RJ45 connectors	VW3A3627	13.018.500
PROFIBUS DP V1 card	VW3A3607	8.569.000
DeviceNet card	VW3A3609	26.372.500



VW3A3203

### Other options (\*):

- Passive filters
- Additional EMC input filters for reducing conducted emissions on the line
- Encoder interface modules
- Output filters:
  - + dv/dt filters
  - + Sinus filters

(\*) Please consult our Customer Care Center



A regenerative function associated to ATV320, ATV340 and ATV930 drives.  
An economic energy saving alternative to the braking resistor.

- Energy saving function.
- No particular set-up for the regenerative function.
- Easy mechanical integration.
- Robustness to mains perturbances.
- Modular

Bộ hãm tái sinh lắp đặt với biến tần ATV320, ATV340 và ATV930.  
Là giải pháp tiết kiệm năng lượng thay thế cho  
Việc sử dụng điện trở hãm (xả)

- Tiết kiệm năng lượng.
- Không cần phải thực hiện các thao tác cài đặt các chức năng chuyên biệt cho chức năng hãm tái sinh
- Dễ dàng tích hợp vào phần cơ khí
- Vận hành bền bỉ khi nguồn ngõ vào bị nhiễu
- Thiết kế nhỏ gọn, dạng module



ATVRU75N4



ATVRD15N4

Unit price (incl.VAT) in VND

References			
For drives (1)	IP	Reference	Unit Price
<b>Supply voltage: 380...480 V 50/60 Hz</b>			
ATV320U07NA...D15N4.			
ATV340U07...D22N4.	20	<b>ATVRU75N4</b>	37.521.000
ATV340D30...D75N4E			
ATV930...N4/N4Z	20	<b>ATVRD15N4</b>	37.455.000
ATV980...N4			

(1) For sizing, refer to the **Altivar Regenerative Unit User Manual to select the Regenerative unit**  
Download Altivar Regenerative Unit: Sizing Tool: <https://ww.se.com/ww/en/download/document/NVE94856/>