



# Variable Speed Drives & Soft Starters Lebanon Price list 2018



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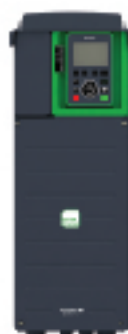
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# Motion Control

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# COMPACT DRIVES

ATV **12**



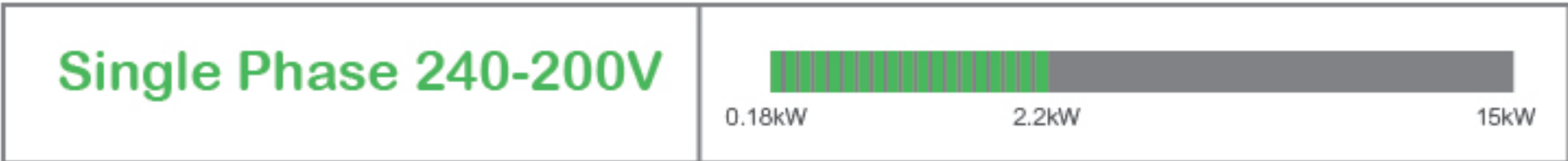
Small

Intuitive

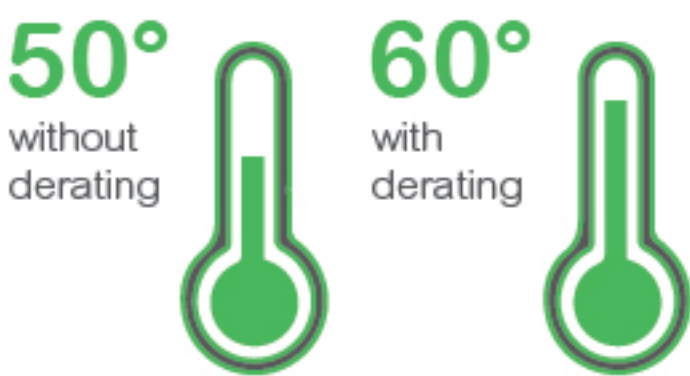
Reliable

High-performance

## Power



## Temperature



## IP



## Communication

Modbus Serial

## Integrated I/O

Analogue Inputs	1	
Digital Inputs	4	
Relay Outputs	1	
Analogue Outputs	1	

## Features

- 8 Preset Speeds
- %150 over Torque
- Built in EMC Filter

## Applications

- Simple Machine Application
- Packaging
- Handling (small conveyors)
- Pumps & Fans



Altivar 12 Variable speed controllers for asynchronous motors

Single phase supply voltage 200...240V



Motor Power	Motor Power	Description	Reference	Price
kW	HP			
0.18	0.25	ATV12 0.18kW 240V 1PH	ATV12H018M2	200
0.37	0.5	ATV12 0.37kW 240V 1PH	ATV12H037M2	210
0.55	0.75	ATV12 0.55kW 240V 1PH	ATV12H055M2	225
0.75	1	ATV12 0.75kW 240V 1PH	ATV12H075M2	250
1.5	2	ATV12 1.5kW 240V 1PH	ATV12HU15M2	275
2.2	3	ATV12 2.2kW 240V 1PH	ATV12HU22M2	310

\* All Prices are in EUR and not including VAT



# COMPACT DRIVES

ATV **312**

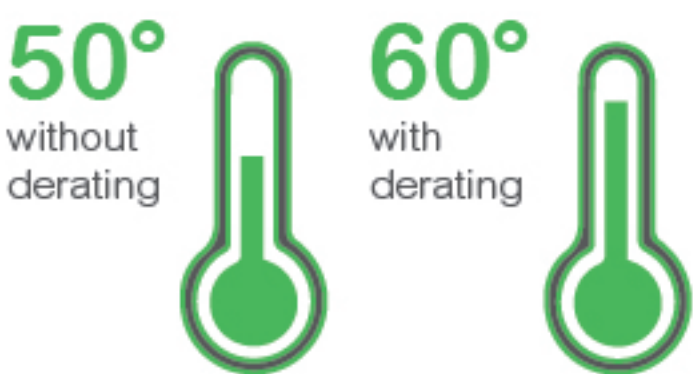


Simple + Intuitive  
Robust + High-performance

## Power

Single Phase 200-240V	
3 Phase 380-500V	
3 Phase 525-600V	

## Temperature



## IP



## Communication

Modbus Serial  
CAN Open

## Integrated I/O

Analogue Inputs	3	
Digital Inputs	6	
Relay Outputs	2	
Analogue Outputs	1	

## Features

- 16 Preset Speeds
- Brake Sequence
- %150 over Torque
- Built in EMC Filter

## Applications

- Material handling
- Packaging
- Textile Machines
- Pumps & Fans



## ALTIVAR 312 Variable speed controllers for asynchronous motors

Single phase supply voltage 200...240V 60/50 HZ

3 phase supply voltage 380...500V 60/50 HZ



Motor Power	Motor Power	Description	Reference	Price
kW	HP			
Single phase supply voltage 200...240V 60/50 HZ				
0.18	0.25	ATV312 0,18kW 240V 1 PHASE	ATV312H018M2	317.3
0.37	0.5	ATV312 0,37kW 240V 1 PHASE	ATV312H037M2	320.6
0.55	0.75	ATV312 0,55kW 240V 1 PHASE	ATV312H055M2	385
0.75	1	ATV312 0,75kW 240V 1 PHASE	ATV312H075M2	391.2
1.1	1.5	ATV312 1,1kW 240V 1 PHASE	ATV312HU11M2	413.8
1.5	2	ATV312 1,5kW 240V 1 PHASE	ATV312HU15M2	458.6
2.2	3	ATV312 2,2kW 240V 1 PHASE	ATV312HU22M2	498.6
3 phase supply voltage 380...500V 60/50 HZ				
0.37	0.5	ATV312 0,37kW 500V 3 PHASES	ATV312H037N4	325
0.55	0.75	ATV312 0,55kW 500V 3 PHASES	ATV312H055N4	360
0.75	1	ATV312 0,75kW 500V 3 PHASES	ATV312H075N4	485
1.1	1.5	ATV312 1,1kW 500V 3 PHASES	ATV312HU11N4	415
1.5	2	ATV312 1,5kW 500V 3 PHASES	ATV312HU15N4	450
2.2	3	ATV312 2,2kW 500V 3 PHASES	ATV312HU22N4	500
3	4	ATV312 3kW 500V 3 PHASES	ATV312HU30N4	570
4	5	ATV312 4kW 500V 3 PHASES	ATV312HU40N4	630
5.5	7.5	ATV312 5,5kW 500V 3 PHASES	ATV312HU55N4	720
7.5	10	ATV312 7,5kW 500V 3 PHASES	ATV312HU75N4	800
11	15	ATV312 11kW 500V 3 PHASE	ATV312HD11N4	1,000
15	20	ATV312 15kW 500V 3 PHASES	ATV312HD15N4	1,250

\* All Prices are in EUR and not including VAT



# ALTIVAR MACHINE

ATV320



Compact Type









ATV320\*\*\*\*\*C



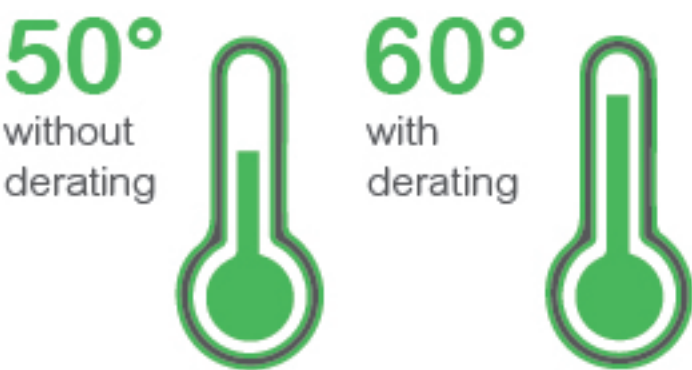
Book Type

ATV320\*\*\*\*\*B

## Power

Single Phase 200-240V	 0.18kW 2.2kW 15kW	 0.18kW 2.2kW 15kW
3 Phase 200-240V	 0.18kW 15kW	 0.18kW 15kW
3 Phase 380-500V	 0.18kW 0.37kW 4kW 15kW	 0.18kW 0.37kW 15kW
3 Phase 525-600V	 0.18kW 0.75kW 15kW	 0.18kW 15kW

## Temperature



## IP

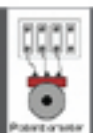





## Communication

Modbus Serial  
CAN Open



## Integrated I/O

Analogue Inputs	3	
Digital Inputs	6	
Relay Outputs	2	
Analogue Outputs	1	

## Functions

- Embeded safety functions
- PTC Probe input
- Built in EMC Filter
- Control of Synchronus Motors
- Conformal Coated circuit boards

## Applications

- Material working
- Special Machines
- Textiles
- Pumps & Fans
- Hoisting



## Altivar Machine 320 Variable speed controllers for simple Industrial Applications

Single phase supply voltage 200...240V 50/60 HZ



Motor Power	Motor Power	Description	Reference
kW	HP		
0.18	0.25	ATV 320 0.18kW, single Phase 220V	ATV320U02M2C
0.37	0.5	ATV 320 0.37kW, single Phase 220V	ATV320U04M2C
0.55	0.75	ATV 320 0.55kW, single Phase 220V	ATV320U06M2C
0.75	1	ATV 320 0.75kW, single Phase 220V	ATV320U07M2C
1.1	1.5	ATV 320 1.1kW, single Phase 220V	ATV320U11M2C
1.5	2	ATV 320 1.5kW, single Phase 220V	ATV320U15M2C
2.2	3	ATV 320 2.2kW, single Phase 220V	ATV320U22M2C

## Altivar Machine 320 Variable speed controllers for simple Industrial Applications

Three phase supply voltage 380...500V 50/60 HZ



Motor Power	Motor Power	Description	Reference
kW	HP		
0.37	0.5	ATV 320 0.37kW, Three Phase 380V	ATV320U04N4C
0.55	0.75	ATV 320 0.55kW, Three Phase 380V	ATV320U06N4C
0.75	1	ATV 320 0.75kW, Three Phase 380V	ATV320U07N4C
1.1	1.5	ATV 320 1.1kW, Three Phase 380V	ATV320U11N4C
1.5	2	ATV 320 1.5kW, Three Phase 380V	ATV320U15N4C
2.2	3	ATV 320 2.2kW, Three Phase 380V	ATV320U22N4C
3	4	ATV 320 3kW, Three Phase 380V	ATV320U30N4C
4	5	ATV 320 4kW, Three Phase 380V	ATV320U40N4C

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Altivar Machine 320 - Book Size -Variable speed controllers for simple Industrial Applications

Single phase supply voltage 200...240V 50/60 HZ



Motor Power		Description	Reference
kW	HP		
0.18	0.25	ATV 320 0.18kW, single Phase 220V	ATV320U02M2B
0.37	0.5	ATV 320 0.37kW, single Phase 220V	ATV320U04M2B
0.55	0.75	ATV 320 0.55kW, single Phase 220V	ATV320U06M2B
0.75	1	ATV 320 0.75kW, single Phase 220V	ATV320U07M2B
1.1	1.5	ATV 320 1.1kW, single Phase 220V	ATV320U11M2B
1.5	2	ATV 320 1.5kW, single Phase 220V	ATV320U15M2B
2.2	3	ATV 320 2.2kW, single Phase 220V	ATV320U22M2B

Altivar Machine 320 - Book Size -Variable speed controllers for simple Industrial Applications

Three phase supply voltage ...380...500V 50/60 HZ



Motor Power		Description	Reference
kW	HP		
0.37	0.5	ATV 320 0.37kW, Three Phase 380V	ATV320U04N4B
0.55	0.75	ATV 320 0.55kW, Three Phase 380V	ATV320U06N4B
0.75	1	ATV 320 0.75kW, Three Phase 380V	ATV320U07N4B
1.1	1.5	ATV 320 1.1kW, Three Phase 380V	ATV320U11N4B
1.5	2	ATV 320 1.5kW, Three Phase 380V	ATV320U15N4B
2.2	3	ATV 320 2.2kW, Three Phase 380V	ATV320U22N4B
3	4	ATV 320 3kW, Three Phase 380V	ATV320U30N4B
4	5	ATV 320 4kW, Three Phase 380V	ATV320U40N4B
5.5	7.5	ATV 320 5.5kW, Three Phase 380V	ATV320U55N4B
7.5	10	ATV 320 7.5kW, Three Phase 380V	ATV320U75N4B
11	15	ATV 320 11kW, Three Phase 380V	ATV320D11N4B
15	20	ATV 320 15kW, Three Phase 380V	ATV320D15N4B

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## Notes



# ALTIVAR MACHINE

ATV 340



Modular Type

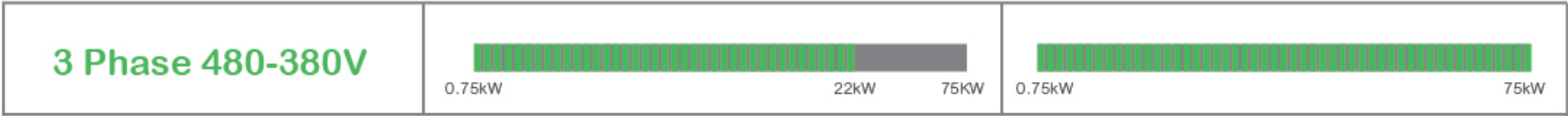
ATV340\*\*\*\*\*N4



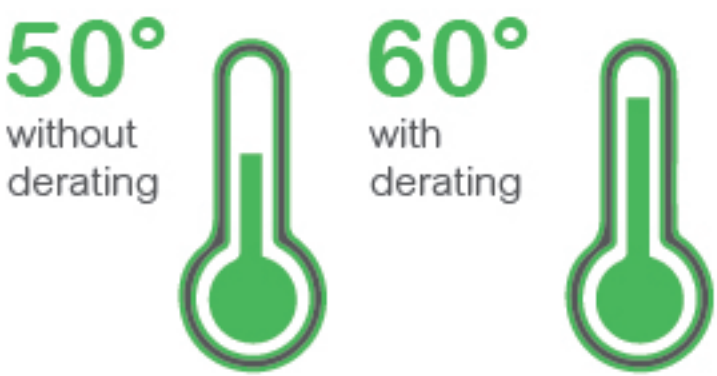
Ethernet Type

ATV340\*\*\*\*\*N4E

## Power



## Temperature



## IP



## Communication

N4	N4E
Modbus	Ethernet IP
Serial	Modbus TCP



## Integrated I/O

	N4	N4E
Analogue Inputs	2	3
Digital Inputs	5	8
Relay Outputs	2	3
Analogue Outputs	1	2

## Functions

- High speed native multi ethernet connectivity
- Embedded safety functions STO.
- Embedded Motor encoder interface
- Control of Synchronous & Asynchronous motors
- Built in EMC Filter

## Applications

- Printing
- Material handling
- Conveying
- Packaging
- Textiles
- Pumps & Fans
- Hoisting

## Altivar Process 340 Variable speed controllers for Industrial Applications

3 phase supply voltage 380... 480V 50/60 HZ



Heavy/Normal Duty	Motor Power		Description	Reference
	kW	HP		
HD	0.75	1	ATV340 0.75kW, 3 Phase 380V	ATV340U07N4
ND	1.1	1.5	ATV340 1.1kW, 3 Phase 380V	
HD	1.5	2	ATV340 1.5kW, 3 Phase 380V	ATV340U15N4
ND	2.2	3	ATV340 2.2kW, 3 Phase 380V	
HD	2.2	3	ATV340 2.2kW, 3 Phase 380V	ATV340U22N4
ND	3	3	ATV340 3kW, 3 Phase 380V	
HD	3	3	ATV340 3kW, 3 Phase 380V	ATV340U30N4
ND	4	5	ATV340 4kW, 3 Phase 380V	
HD	4	5	ATV340 4kW, 3 Phase 380V	ATV340U40N4
ND	5.5	7	ATV340 5.5kW, 3 Phase 380V	
HD	5.5	7	ATV340 5.5kW, 3 Phase 380V	ATV340U55N4
ND	7.5	10	ATV340 7.5kW, 3 Phase 380V	
HD	7.5	10	ATV340 7.5kW, 3 Phase 380V	ATV340U75N4
ND	11	15	ATV340 11kW, 3 Phase 380V	
HD	11	15	ATV340 11kW, 3 Phase 380V	ATV340D11N4
ND	15	20	ATV340 15kW, 3 Phase 380V	
HD	15	20	ATV340 15kW, 3 Phase 380V	ATV340D15N4
ND	18.5	25	ATV340 18.5kW, 3 Phase 380V	
HD	18.5	25	ATV340 18.5kW, 3 Phase 380V	ATV340D18N4
ND	22	30	ATV340 22kW, 3 Phase 380V	
HD	22	30	ATV340 22kW, 3 Phase 380V	ATV340D22N4
ND	30	40	ATV340 30kW, 3 Phase 380V	

HD: Heavy Duty applications

ND: Normal Duty applications

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Altivar Process 340 Variable speed Ethernet Drive for Industrial Applications

3 phase supply voltage 380... 480V 50/60 HZ



Heavy/Normal Duty	Motor Power		Description	Reference
	KW	HP		
HD	0.75	1	ATV340 0.75kW, 3 Phase 380V	ATV340U07N4E
ND	1.1	1.5	ATV340 1.1kW, 3 Phase 380V	
HD	1.5	2	ATV340 1.5kW, 3 Phase 380V	ATV340U15N4E
ND	2.2	3	ATV340 2.2kW, 3 Phase 380V	
HD	2.2	3	ATV340 2.2kW, 3 Phase 380V	ATV340U22N4E
ND	3	3	ATV340 3kW, 3 Phase 380V	
HD	3	3	ATV340 3kW, 3 Phase 380V	ATV340U30N4E
ND	4	5	ATV340 4kW, 3 Phase 380V	
HD	4	5	ATV340 4kW, 3 Phase 380V	ATV340U40N4E
ND	5.5	7	ATV340 5.5kW, 3 Phase 380V	
HD	5.5	7	ATV340 5.5kW, 3 Phase 380V	ATV340U55N4E
ND	7.5	10	ATV340 7.5kW, 3 Phase 380V	
HD	7.5	10	ATV340 7.5kW, 3 Phase 380V	ATV340U75N4E
ND	11	15	ATV340 11kW, 3 Phase 380V	
HD	11	15	ATV340 11kW, 3 Phase 380V	ATV340D11N4E
ND	15	20	ATV340 15kW, 3 Phase 380V	
HD	15	20	ATV340 15kW, 3 Phase 380V	ATV340D15N4E
ND	18.5	25	ATV340 18.5kW, 3 Phase 380V	
HD	18.5	25	ATV340 18.5kW, 3 Phase 380V	ATV340D18N4E
ND	22	30	ATV340 22kW, 3 Phase 380V	
HD	22	30	ATV340 22kW, 3 Phase 380V	ATV340D22N4E
ND	30	40	ATV340 30kW, 3 Phase 380V	
HD	30	40	ATV340 30kW, 3 Phase 380V	ATV340D30N4E
ND	37	50	ATV340 37kW, 3 Phase 380V	
HD	37	50	ATV340 37kW, 3 Phase 380V	ATV340D37N4E
ND	45	60	ATV340 45kW, 3 Phase 380V	
HD	45	60	ATV340 45kW, 3 Phase 380V	ATV340D45N4E
ND	55	75	ATV340 55kW, 3 Phase 380V	
HD	55	75	ATV340 55kW, 3 Phase 380V	ATV340D55N4E
ND	75	100	ATV340 75kW, 3 Phase 380V	
HD	75	100	ATV340 75kW, 3 Phase 380V	ATV340D75N4E
ND	90	125	ATV340 90kW, 3 Phase 380V	

HD: Heavy Duty applications  
ND: Normal Duty applications

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## Notes



# HVAC DRIVES

## ATV 212



Reliable

Eco - friendly

User friendly

High-performance

+

### Power

Phase 200-240V 3	<div><div></div></div> <div>0.75kW30kW75kW</div>
Phase 380-480V 3	<div><div></div></div> <div>0.75kW75kW</div>

### Temperature

50°without derating

60°with derating

### IP

### Communication

- Modbus
- BAC net
- METASys N2
- APOGEEFLNP1



### Integrated I/O

Analogue Inputs	2	
Digital Inputs	3	
Relay Outputs	1	
Analogue Outputs	2	

### Features

- 7 Preset Speeds
- Built in EMC Filter
- C-less Technology
- Fire mode
- Dumper Control

### Applications

- Pumps & Fans in HVAC

## Altivar 212 variable speed controllers for HVAC application

3 Phase supply voltage 380... 480V 50/60 HZ



Motor Power	Motor Power	Description	Reference	Price
kW	HP			
Altivar 212 for HVAC application				
0.75	1	ATV212 0,75KW 1HP 480V TRI CEM IP20	ATV212H075N4	383.1
1.5	2	ATV212 1,5KW 2HP 480V TRI CEM IP20	ATV212HU15N4	430.5
2.2	3	ATV212 2,2KW 3HP 480V TRI CEM IP20	ATV212HU22N4	497.2
3	4	ATV212 3KW NAHP 480V TRI CEM IP20	ATV212HU30N4	574.3
4	5	ATV212 4KW 5HP 480V TRI CEM IP20	ATV212HU40N4	669.9
5.5	7.5	ATV212 5,5KW 7,5HP 480V TRI CEM IP20	ATV212HU55N4	813.7
7.5	10	ATV212 7,5KW 10HP 480V TRI CEM IP20	ATV212HU75N4	995.2
11	15	ATV212 11KW 15HP 480V TRI CEM IP20	ATV212HD11N4	1,314
15	20	ATV212 15KW 20HP 480V TRI CEM IP20	ATV212HD15N4	1,626
18.5	25	ATV212 18,5KW 25HP 480V TRI CEM IP20	ATV212HD18N4	2,143
22	30	ATV212 22KW 30HP 480V TRI CEM IP20	ATV212HD22N4	2,637
30	40	ATV212 30KW 40HP 480V TRI CEM IP20	ATV212HD30N4	2,990
37	50	ATV212 37KW 50HP 460V TRI IP20 VARIABLE	ATV212HD37N4	3,446
45	60	ATV212 45KW 60HP 460V TRI IP20 VARIABLE	ATV212HD45N4	4,043
55	75	ATV212 55KW 75HP 460V TRI IP20 VARIABLE	ATV212HD55N4	4,850
75	100	ATV212 75KW 100HP 460V TRI IP20 VARIABLE	ATV212HD75N4	5,774

\* All Prices are in EUR and not including VAT



# ALTIVAR PROCESS

ATV600



Wall Mounted

IP20	ATV630*****
IP55	ATV650*****



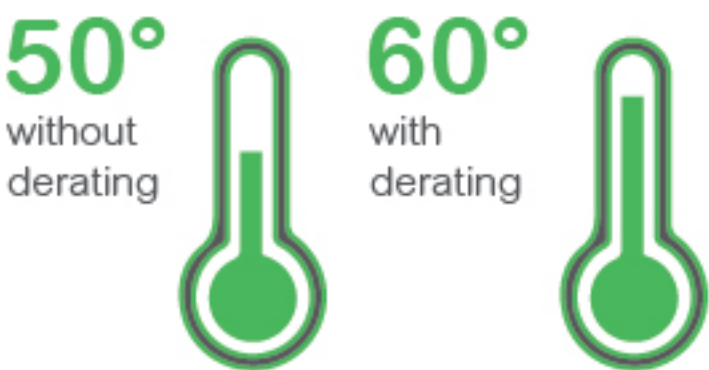
Floor Standing

IP20	ATV630*****F
IP55	ATV650*****F

## Power

3 Phase 200-240V		
3 Phase 380-400V		

## Temperature



## IP



## Communication

Modbus / TCP  
Modbus Serial Link  
Ethernet / IP



## Integrated I/O

Analogue Inputs	3	
Digital Inputs	6	
Relay Outputs	3	
Analogue Outputs	2	

## Functions

- Multi drive link
- Level control
- Dynamic QR code
- Dry run protection
- Friction loss compensation
- Pump curve simulation
- Web server embedded

## Applications

- Oil & Gas applications
- Water & Waste water application
- Mining, Minerals & Metals applications
- Food & Beverage application

## Altivar Process 630 Variable speed controllers for Process and utilities

3 phase supply voltage 380...480V 50/60 HZ



Heavy/ Normal Duty	Motor Power	Motor Power	Description	Reference	Price
	kW	HP			
ND	0.75	1	ATV630 0.75kW, 3 Phase 380V	ATV630U07N4	797.3
HD	0.37	0.5	ATV630 0.37kW, 3 Phase 380V		
ND	1.5	2	ATV630 1.5kW, 3 Phase 380V	ATV630U15N4	821.8
HD	0.75	1	ATV630 0.75kW, 3 Phase 380V		
ND	2.2	3	ATV630 2.2kW, 3 Phase 380V	ATV630U22N4	921.9
HD	1.5	2	ATV630 1.5kW, 3 Phase 380V		
ND	3	-	ATV630 3kW, 3 Phase 380V	ATV630U30N4	1,003
HD	2.2	3	ATV630 2.2kW, 3 Phase 380V		
ND	4	5	ATV630 4 Kw, 3 Phase 380V	ATV630U40N4	1,042
HD	3	-	ATV630 3 Kw, 3 Phase 380V		
ND	5.5	7.5	ATV630 5.5Kw, 3 Phase 380	ATV630U55N4	1,196
HD	4	5	ATV630 4Kw, 3 Phase 380V		
ND	7.5	10	ATV630 7.5Kw, 3 Phase 380V	ATV630U75N4	1,433
HD	5.5	7.5	ATV630 5.5Kw, 3 Phase 380V		
ND	11	15	ATV630 11Kw, 3 Phase 380V	ATV630D11N4	1,797
HD	7.5	10	ATV630 7.5Kw, 3 Phase 380V		
ND	15	20	ATV630 15Kw, 3 Phase 380V	ATV630D15N4	2,284
HD	11	15	ATV630 11Kw, 3 Phase 380V		
ND	18.5	25	ATV630 18.5Kw, 3 Phase 380V	ATV630D18N4	2,751
HD	15	20	ATV630 15Kw, 3 Phase 380V		
ND	22	30	ATV630 22kW, 3 Phase 380V	ATV630D22N4	3,087
HD	18	25	ATV630 18kW, 3 Phase 380V		
ND	30	40	ATV630 30kW, 3 Phase 380V	ATV630D30N4	3,940
HD	22	30	ATV630 22kW, 3 Phase 380V		
ND	37	50	ATV630 37Kw, 3 Phase 380V	ATV630D37N4	4,519
HD	30	40	ATV630 30 Kw, 3 Phase 380V		
ND	45	60	ATV630 45Kw, 3 Phase 380	ATV630D45N4	5,440
HD	37	50	ATV630 37Kw, 3 Phase 380V		
ND	55	75	ATV630 55Kw, 3 Phase 380V	ATV630D55N4	7,023
HD	45	60	ATV630 45Kw, 3 Phase 380V		
ND	75	100	ATV630 75Kw, 3 Phase 380V	ATV630D75N4	7,682
HD	55	75	ATV630 55Kw, 3 Phase 380V		
ND	90	125	ATV630 90Kw, 3 Phase 380V	ATV630D90N4	9,416
HD	75	100	ATV630 75Kw, 3 Phase 380V		
ND	110	150	ATV630 110Kw, 3 Phase 380V	ATV630C11N4	10,713
HD	90	125	ATV630 90Kw, 3 Phase 380V		

\* All Prices are in EUR and not including VAT





Heavy/ Normal Duty	Motor Power	Motor Power	Description	Reference	Price
	kW	HP			
ND	132	200	ATV630 132 kW, 3 Phase 380V	ATV630C13N4	12,331
HD	110	150	ATV630 110 kW, 3 Phase 380V		
ND	160	250	ATV630 160 kW, 3 Phase 380V	ATV630C16N4	14,554
HD	132	200	ATV630 132 kW, 3 Phase 380V		
ND	220	350	ATV630 220 kW, 3 Phase 380V	ATV630C22N4	*
HD	160	250	ATV630 160 kW, 3 Phase 380V		
ND	250	400	ATV630 250 kW, 3 Phase 380V	ATV630C25N4	*
HD	220	350	ATV630 220 kW, 3 Phase 380V		
ND	315	500	ATV630 315 Kw, 3 Phase 380V	ATV630C31N4	*
HD	250	400	ATV630 250 Kw, 3 Phase 380V		

HD: Heavy Duty applications  
ND: Normal Duty applications

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## Altivar Process 650 Variable speed controllers for Process and utilities

Three phase supply voltage 380...480V 50/60 HZ



Motor Power	Motor Power	Description	Reference
kW	HP		
0.75	1	ATV650 IP54 0.75kW, 3 Phase 380V	ATV650U07N4
1.5	2	ATV650 IP54 1.5kW, 3 Phase 380V	ATV650U15N4
2.2	3	ATV650 IP54 2.2kW, 3 Phase 380V	ATV650U22N4
3	4	ATV650 IP54 3.0kW, 3 Phase 380V	ATV650U30N4
4	5	ATV650 IP54 4.0kW, 3 Phase 380V	ATV630U40N4
5.5	7	ATV650 IP54 5.5kW, 3 Phase 380V	ATV650U55N4
7.5	10	AATV650 IP54 7.5kW, 3 Phase 380V	ATV650U75N4
11	15	ATV650 IP54 11kW, 3 Phase 380V	ATV650D11N4
15	20	ATV650 IP54 15 Kw, 3 Phase 380V	ATV650D15N4
18	25	ATV650 IP54 18 Kw, 3 Phase 380V	ATV650D18N4
22	30	ATV650 IP54 22 Kw, 3 Phase 380V	ATV650D22N4
30	40	ATV650 IP54 30 Kw, 3 Phase 380V	ATV650D30N4
37	50	ATV650 IP54 37 Kw, 3 Phase 380V	ATV650D37N4
45	60	ATV650 IP54 45 Kw, 3 Phase 380V	ATV650D45N4
55	75	ATV650 IP54 55 Kw, 3 Phase 380V	ATV650D55N4
75	100	ATV650 IP54 75 Kw, 3 Phase 380V	ATV650D75N4
90	125	ATV650 IP54 90 Kw, 3 Phase 380V	ATV650D90N4

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# ALTIVAR PROCESS

ATV900



Wall Mounted

IP21	ATV930*****
IP55	ATV950*****



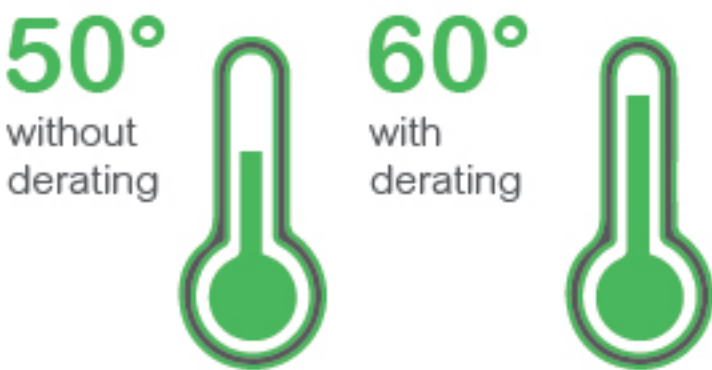
Floor Standing

IP21	ATV930*****F
IP55	ATV950*****F

## Power

3 Phase 240-200V	
3 Phase 400-380V	
3 Phase 480-380V	

## Temperature



## IP



## Communication

Ethernet / IP  
Modbus / TCP  
Modbus Serial Link



## Integrated I/O

Analogue Inputs	3	
Digital Inputs	6	
Relay Outputs	3	
Analogue Outputs	2	

## Functions

- Master Slave - Multi drive link
- Dynamic QR code
- Back spin control
- Energy adaptation
- Low harmonic design
- Back lash sequence

## Applications

- Oil & Gas Applications
- Water & Waste water Application
- Mining, Minerals & Metals Applications
- Food & Beverage Application

## Altivar Process 930 Variable speed controllers for heavy Industrial Applications

3- phase supply voltage 380... 480V 50/60 HZ



Heavy/ Normal Duty	Motor Power		Description	Reference	Price
	kW	HP			
ND	0.75	1	ATV930 0.75kW, 3 Phase 380V	ATV930U07N4	1,100
HD	0.37	0.5	ATV930 0.37kW, 3 Phase 380V		
ND	1.5	2	ATV930 1.5kW, 3 Phase 380V	ATV930U15N4	1,134
HD	0.75	1	ATV930 0.75kW, 3 Phase 380V		
ND	2.2	3	ATV930 2.2kW, 3 Phase 380V	ATV930U22N4	1,273
HD	1.5	2	ATV930 1.5kW, 3 Phase 380V		
ND	3	-	ATV930 3kW, 3 Phase 380V	ATV930U30N4	1,385
HD	2.2	3	ATV930 2.2kW, 3 Phase 380V		
ND	4	5	ATV930 4kW, 3 Phase 380V	ATV930U40N4	1,439
HD	3	-	ATV930 3kW, 3 Phase 380V		
ND	5.5	7.5	ATV930 5.5kW, 3 Phase 380	ATV930U55N4	1,650
HD	4	5	ATV930 4kW, 3 Phase 380V		
ND	7.5	10	ATV930 7.5kW, 3 Phase 380V	ATV930U75N4	1,813
HD	5.5	7.5	ATV930 5.5kW, 3 Phase 380V		
ND	11	15	ATV930 11kW, 3 Phase 380V	ATV930D11N4	2,274
HD	7.5	10	ATV930 7.5kW, 3 Phase 380V		
ND	15	20	ATV930 15kW, 3 Phase 380V	ATV930D15N4	2,909
HD	11	15	ATV930 11kW, 3 Phase 380V		
ND	18.5	25	ATV930 18.5kW, 3 Phase 380V	ATV930D18N4	3,163
HD	15	20	ATV930 15kW, 3 Phase 380V		
ND	22	30	ATV930 22kW, 3 Phase 380V	ATV930D22N4	3,551
HD	18	25	ATV930 18kW, 3 Phase 380V		
ND	30	40	ATV930 30kW, 3 Phase 380V	ATV930D30N4	4,531
HD	22	30	ATV930 22kW, 3 Phase 380V		
ND	37	50	ATV930 37kW, 3 Phase 380V	ATV930D37N4	5,197
HD	30	40	ATV930 30 kW, 3 Phase 380V		
ND	45	60	ATV930 45kW, 3 Phase 380	ATV930D45N4	6,256
HD	37	50	ATV930 37kW, 3 Phase 380V		
ND	55	75	ATV930 55kW, 3 Phase 380V	ATV930D55N4	8,432
HD	45	60	ATV930 45kW, 3 Phase 380V		
ND	75	100	ATV930 75kW, 3 Phase 380V	ATV930D75N4	9,150
HD	55	75	ATV930 55kW, 3 Phase 380V		
ND	90	125	ATV930 90kW, 3 Phase 380V	ATV930D90N4	11,160
HD	75	100	ATV930 75kW, 3 Phase 380V		
ND	110	150	ATV930 110kW, 3 Phase 380V	ATV930C11N4C	*
HD	90	125	ATV930 90kW, 3 Phase 380V		

\* For Prices please contact Schneider Electric +9611321645

\* All Prices are in EUR and not including VAT





Heavy/ Normal Duty	Motor Power	Motor Power	Description	Reference	Price
	kW	HP			
ND	132	200	ATV630 132 kW, 3 Phase 380V	ATV930C13N4C	*
HD	110	150	ATV630 110 kW, 3 Phase 380V		
ND	160	250	ATV630 160 kW, 3 Phase 380V	ATV930C16N4C	*
HD	132	200	ATV630 132 kW, 3 Phase 380V		
ND	220	350	ATV630 220 kW, 3 Phase 380V	ATV930C22N4C	*
HD	160	250	ATV630 160 kW, 3 Phase 380V		
ND	250	400	ATV630 250 kW, 3 Phase 380V	ATV930C25N4C	*
HD	220	350	ATV630 220 kW, 3 Phase 380V		
ND	315	500	ATV630 315 Kw, 3 Phase 380V	ATV930C31N4C	*
HD	250	400	ATV630 250 Kw, 3 Phase 380V		

HD: Heavy Duty applications  
ND: Normal Duty applications

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# OPTIONS

	REFERENCE	RANGE	PRICE
 <p>Graphic display terminal</p>	VW3A1111	Altivar Process 600 Altivar Process 900 Altivar Machine 340	150
 <p>Mounting kit</p>	VW3A1112	Altivar Process 600 Altivar Process 900 Altivar Machine 340	25
 <p>Graphic display terminal</p>	VW3A1006	Altivar 12 Altivar 312 Altivar 312 Solar Altivar Machine 320 Altivar 310	125
 <p>Graphic display terminal</p>	VW3A1101	Altivar 312 Altivar 312 Solar Altivar Machine 320	237
 <p>Female connector</p>	VW3A1105	Altivar 61 Altivar 71 Altivar Lift	20

\* All Prices are in EUR and not including VAT





# Customized drive solutions

Low-Voltage Drive Systems  
Ready-to-use from 110 – 1200 kW



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Electric



# Soft Starters / Altistart Ranges



## Type of application



### Crusher

- Overtorque
- Starting current
- Brake vibration



### Compressor

- Torque
- Mechanical stress
- Pressure drops



### Pump

- Water hammer
- Rotor protection
- Voltage drops



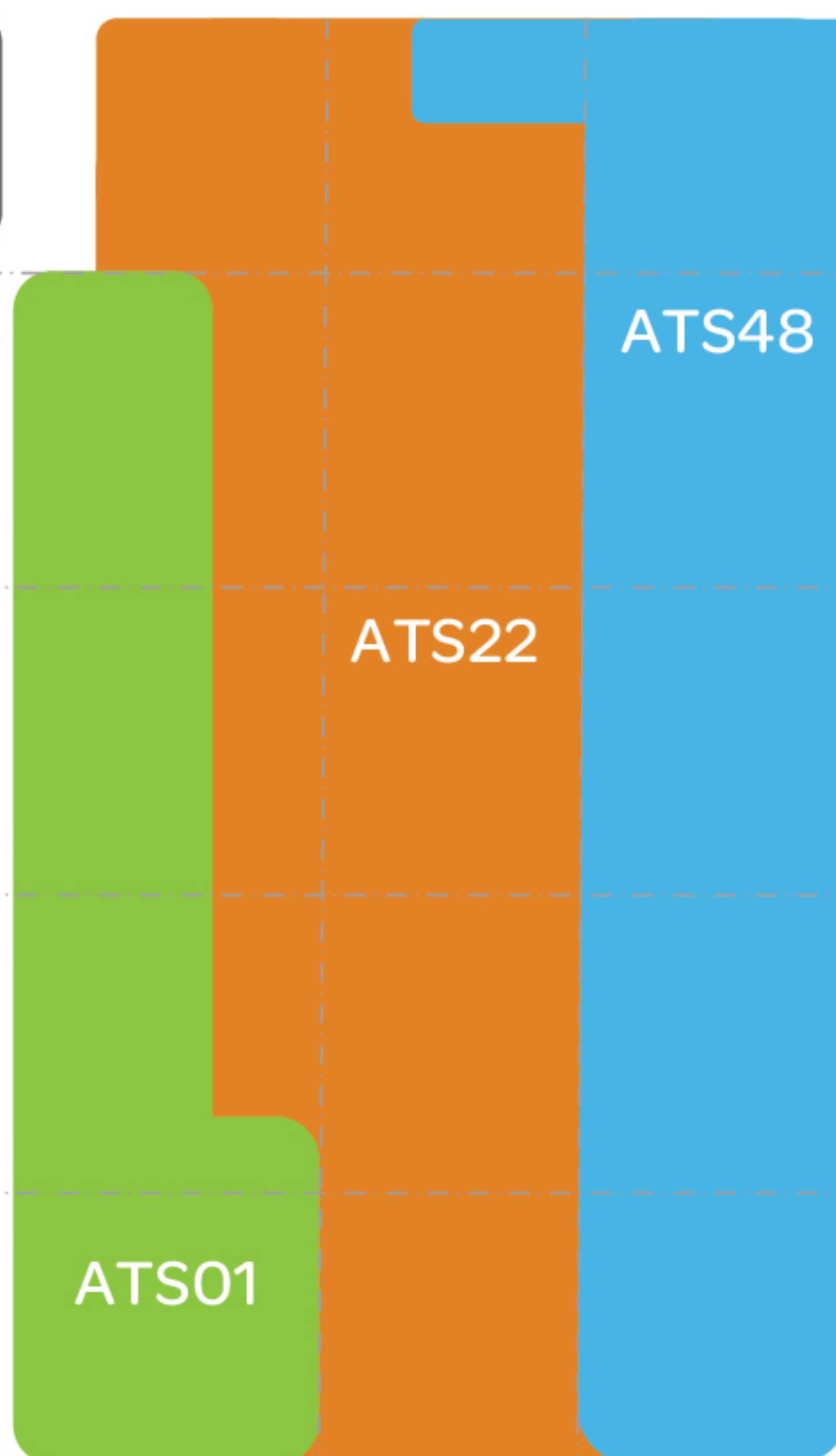
### Fan

- Inertia
- Under- / Overload
- Slipping belt



### Conveyor

- Torque
- Conveyor length
- Jammed belt



Characteristics	Simple	Standard	Severe
Ramp up time	< 5sec	< 30sec	> 30sec
Starts per hour	1 to 100	1 to 6	1 to 10

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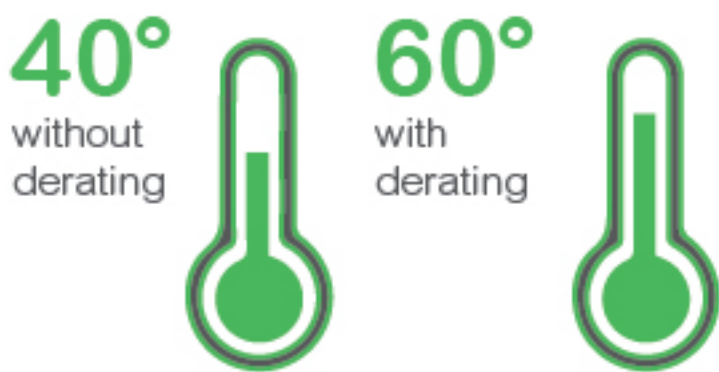
# ATS01



## Power

1 Phase 200-240V	<div><div></div><div>3 A25 A32 A</div><div>0.37kW2.2kW15kW</div></div>	
3 Phase 200-400V		<div><div></div><div>3 A6 A25 A32 A</div><div>0.37kW0.75kW7.5kW15kW</div></div>
3 Phase 380-415V	<div><div></div><div>3 A6 A32 A</div><div>0.73kW1.5kW15kW</div></div>	

## Temperature



## Integrated by Pass contactor



## Integrated I/O

Digital Inputs	3	
Relay Outputs	1	

## Functions

- Voltage boost
- Soft stop
- Up to 100 starts/hr

## Applications

- Conveyors / Conveyor belts
- Pumps & Fans
- Compressors
- Small cranes

## ATS01 Soft start and soft stop units

Soft Start units from 0.37 to 7.5 kW Single Phase 110..230V&amp; 3 Phase 110..480V



Single phase 230V	3 phase 400 V	Rated operating current	Description	Reference	Price
kW	kW	A			
1.1	0.37	3	Soft Starter 3A, 0.37 kW 230V	ATS01N103FT	112.2
2.2	0.75	6	Soft Starter 6A, 0.75 kW 230V	ATS01N106FT	127.3
4	1.1	9	Soft Starter 9A, 1.1 kW 230V	ATS01N109FT	151.5
5.5	1.5	12	Soft Starter 12A, 1.5 kW 230V	ATS01N112FT	159.1
7.5	2.2	25	Soft Starter 25A, 2.2 kW 230V	ATS01N125FT	172.4

## Soft Start - Soft Stop units from 1.5 to 15 Kw 3 Phase 380-415 V

3 phase 400 V	Rated operating current	Discription	Reference	Price
kW	A			
2.2	6	Soft Starter 6A, 2.2 kW 380V	ATS01N206QN	174.1
4	9	Soft Starter 9A, 4 kW 380V	ATS01N209QN	199.9
5.5	12	Soft Starter 12A, 5.5 kW 380V	ATS01N212QN	214.6
11	22	Soft Starter 22A, 11 kW 380V	ATS01N222QN	238.3
15	32	Soft Starter 32A, 15 kW 380V	ATS01N232QN	303.1

\* All Prices are in EUR and not including VAT



# ATS 22



Digital Interface

Cordination type 1

Reduce mechanical stress

+

Current limitation 350%

## Power

3 Phase 230-440V	
3 Phase 208-500V	

## Temperature

40°  
without  
derating

60°  
with  
derating

## Integrated bypass

Yes

## Communication

Modbus serial

## Integrated I/O

Digital Inputs	3	
Relay OutPuts	2	
Analogue Inputs	1	

## Functions

- Store 2 motor parameters
- Full motor protection
- Voltage & Torque ramp
- Remote display terminal
- Additional fan unit

## Applications

- Centrifugal & Piston pump
- Centrifugal & Screw compressors
- Conveyors
- Mixers
- Fans

## ATS22 Soft start and soft stop units with internal bypass contactor

Soft Start units from 7.5 to 315 kW 3 Phase 230...440V



3 phase 400V Standard Application		Description	Reference	Price
kW	A (Rated)			
7.5	17	Soft Starter 17A, 7.5 kW 380V	ATS22D17Q	697
15	32	Soft Starter 32A, 15 kW 380V	ATS22D32Q	759
22	47	Soft Starter 47A, 22 kW 380V	ATS22D47Q	871
30	62	Soft Starter 62A, 30 kW 380V	ATS22D62Q	1,033
37	75	Soft Starter 71A, 37 kW 380V	ATS22D75Q	1,195
45	88	Soft Starter 88A, 45 kW 380V	ATS22D88Q	1,244
55	110	Soft Starter 110A, 55 kW 380V	ATS22C11Q	1,400
75	140	Soft Starter 140A, 75 kW 380V	ATS22C14Q	1,650
90	170	Soft Starter 170A, 90 kW 380V	ATS22C17Q	1,960
110	210	Soft Starter 210A, 110 kW 380V	ATS22C21Q	2,235
132	250	Soft Starter 250A, 132 kW 380V	ATS22C25Q	2,550
160	320	Soft Starter 320A, 160 kW 380V	ATS22C32Q	2,950
220	410	Soft Starter 410A, 220 kW 380V	ATS22C41Q	3,420
250	480	Soft Starter 480A, 250 kW 380V	ATS22C48Q	3,958
315	590	Soft Starter 590A, 315 kW 380V	ATS22C59Q	4,759

\* All Prices are in EUR and not including VAT



# ATS 48



Digital Interface

Cordination type 2

Heavy duty

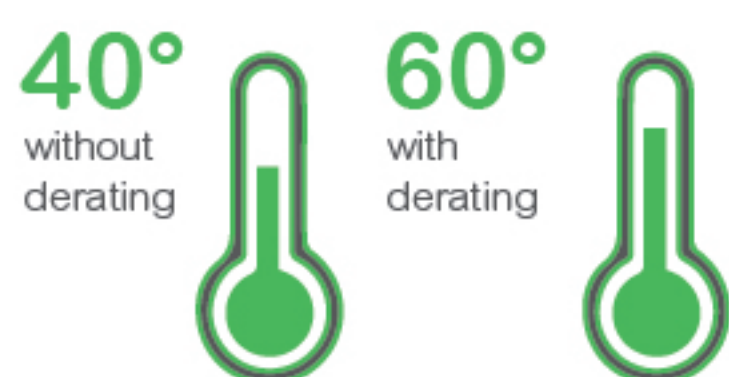
Current limitation 500%



## Power

3 Phase 230-415V	
3 Phase 208-690V	

## Temperature



## Integrated bypass



## Communication

Modbus serial



## Integrated I/O

Analogue Inputs	1	
Digital Inputs	4	
Relay Outputs	3	
Analogue Outputs	1	
PTC	1	

## Functions

- Torque control system
- Cascaded starting
- Coordination type 2
- Remote display terminal

## Applications

- Centrifugal & Piston pump
- Centrifugal, Screw & Piston compressors
- Conveyors
- Mixers
- Crushers & Grinders
- Fans



3 phase 400V Severe Application		Description	Reference	Price
kW	A (Rated)			
7.5	17	Soft Starter 17A, 7.5 kW 380V	ATS48D17Q	822
11	22	Soft Starter 22A, 11 kW 380V	ATS48D22Q	892
15	32	Soft Starter 32A, 15 kW 380V	ATS48D32Q	926
18.5	38	Soft Starter 38A, 18.5 kW 380V	ATS48D38Q	1,030
22	47	Soft Starter 47A, 22 kW 380V	ATS48D47Q	1,238
30	62	Soft Starter 62A, 30 kW 380V	ATS48D62Q	1,454
37	75	Soft Starter 75A, 37 kW 380V	ATS48D75Q	1,557
45	88	Soft Starter 88A, 45 kW 380V	ATS48D88Q	1,881
55	110	Soft Starter 110A, 55 kW 380V	ATS48C11Q	2,177
75	140	Soft Starter 140A, 75 kW 380V	ATS48C14Q	2,468
90	170	Soft Starter 170A, 90 kW 380V	ATS48C17Q	2,733
110	210	Soft Starter 210A, 110 kW 380V	ATS48C21Q	3,068
132	250	Soft Starter 250A, 132 kW 380V	ATS48C25Q	3,347
160	320	Soft Starter 320A, 160 kW 380V	ATS48C32Q	4,278
220	410	Soft Starter 410A, 220 kW 380V	ATS48C41Q	5,164
250	480	Soft Starter 480A, 250 kW 380V	ATS48C48Q	7,223
315	590	Soft Starter 590A, 315 kW 380V	ATS48C59Q	8,317
355	660	Soft Starter 660A, 355 kW 380V	ATS48C66Q	9,997
400	790	Soft Starter 790A, 400 kW 380V	ATS48C79Q	11,248
500	1000	Soft Starter 1000A, 500 kW 380V	ATS48M10Q	11,884
630	1200	Soft Starter 1200A, 630 kW 380V	ATS48M12Q	14,001



# Altivar 1200

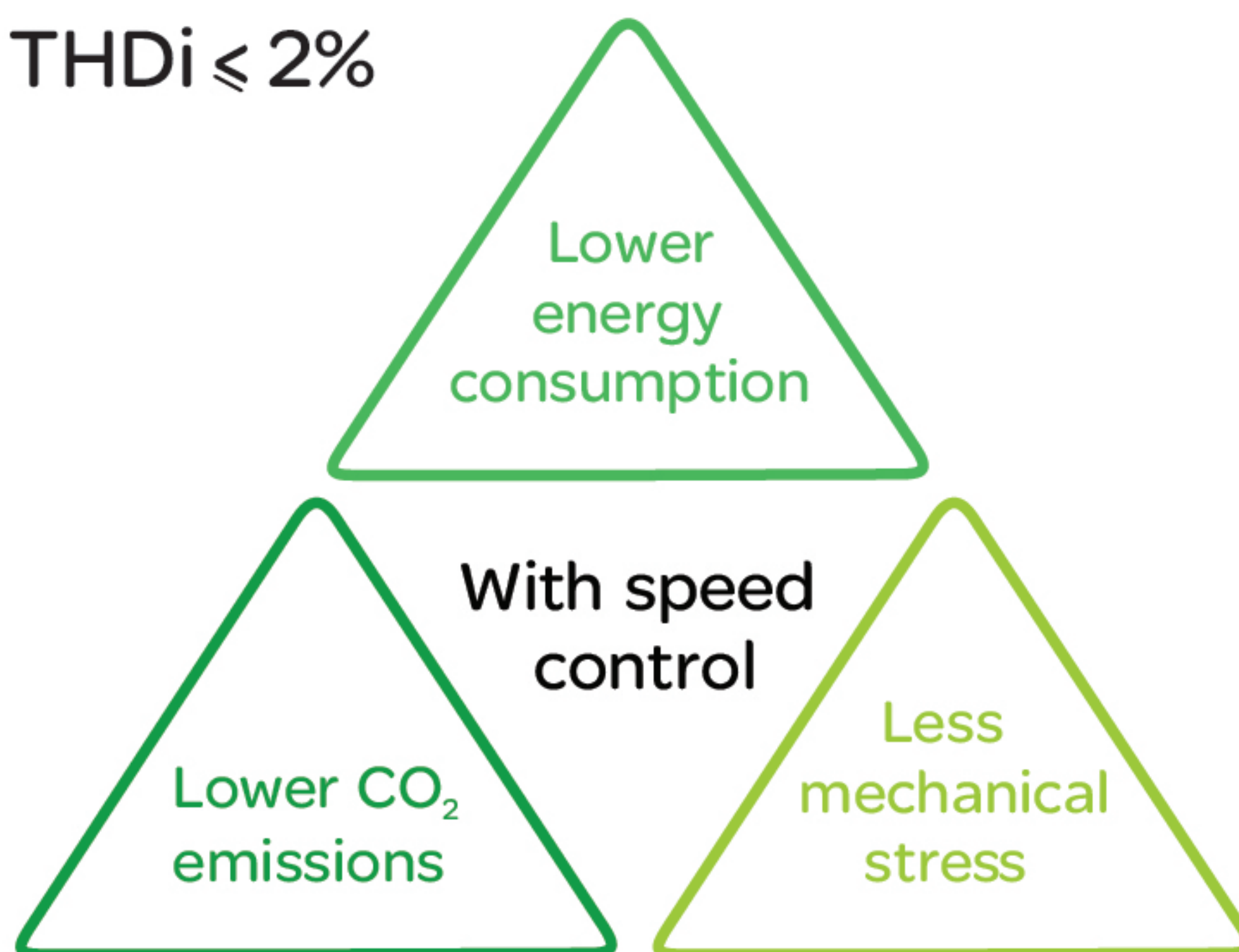
Medium Voltage Drives

315 ... 16200 kVA

2.4 ... 11kV



THDi  $\leq$  2%



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## Notes





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# Variable Speed Drives & Soft Starters Lebanon Price list 2018