Starters and drives Altistart / Altivar The best solution for each application...



Soft starters and **variable speed drives** for asynchronous motors from 0.18 to 1200 kW.





For each application ...



Simple machines







$\overline{\mathbb{N}}$

Complex, high power machines







\mathcal{N}

Pumping and ventilation machines







... a solution in variable speed and soft starting

>>> compact









>>> high performance









Drive Altivar 68/68F

>>> tailor-made





Starter Altistart 48



Altivar 38

The *simplicity* of a complete offer



Welcome to the Simply Smart* world compliments of Telemecanique...

Altistart starters and Altivar variable speed drives open the doors to this world by offering you more simplicity, compactness, open access and flexibility.

Ready to use versions, the same software for the complete offer, choice of communication networks...

so many evolutions and new items to aid your productivity.

Ready to use versions



Forget the costs and design times with the ready-assembled versions.

Integrated EMC standards





Installation pollution cure and heat dissipation benefits assured using models with integrated EMC filter.

Unique software:

PowerSuite

A single piece of software enables configuration of all the Altivar drives and Altistart 48 soft starters in all simplicity.

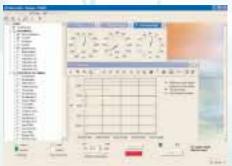
Customise your settings with the minimum of effort!

Power Suite enables you to easily define your parameters, prepare, print out configurations, compare files, etc. Configurations can be saved, enabling you to very quickly recall them for any similar applications.



Additional ergonomics with the pocket PC





Graphical display of settings





Setting-up and maintenance simplified

Total access

With a broad range of access to bus and communication networks, the Altivar variable speed drives and Altistart 48 soft starters easily integrate in all your architectures.

- Integrated Modbus.
- FIPIO.
- Modbus Plus.
- Ethernet.
- CANopen.
- AS-Interfaces.
- Unitelway.
- Profibus DP.
- Interbus S.
- DeviceNet.
- N2.
- Lonworks.



Using the Ethernet card and a simple Web browser, you can manage your installations from anywhere, at any time... with complete efficiency.



Transparent Factory™ Web serving industrial process



Transparent
Building™
Web serving
building
management
efficiency

With Ethernet,

monitor your installations 24 hours a day!

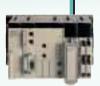
From a remote location you benefit, in real time, of having precise information to simplify operation of your machines (thermal state of the motor, motor torque, active power in kW/h, etc.)

Current status, Diagnostics, Adjustment, using PowerSuite



Connected to the internal Ethernet network, your PC remains in constant contact with your

Ethernet TCP/IP



Ethernet card







For simple machines, opt for the compact

Starter Altistart 01

The starting solution ...!

Extremely compact, the Altistart 01 combines simplicity and efficiency; it reduces machine wear, minimises maintenance time, etc. With TeSys®, Model U, the first motor startercontroller, control and communication functions are added to those of the Altistart.

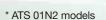


- Small compressors, pumps, fans,
- Conveyors, automatic doors,
- Washing gantries...



Main characteristics

- Adjustable starting and deceleration times: 5 seconds or 10 seconds.
- Adjustable unjamming torque.
- Integrated bypass contactor.
- Simple dialogue by 2 LEDs.
- Signalling on completion of starting.
- 24 V integrated power supply*.
- "Boost" function for difficult starting conditions*.
- Possibility to connect the starter in the delta connection of the motor to reduce the rating of the starter*.
- Compact.
- Safety guaranteed with combined Telemecanique components (circuitbreakers, contactors...).
- Control and communication functions with TeSys®, model U.





Voltage ranges

- 110... 480 V single-phase
- 110... 690 V 3-phase
- 50/60 Hz



Small compressors, fans, conveyors, etc.

(ATS 01N1 model)

- Reduction of surges on starting:
 - Suppression of mechanical wear,
 - Increase in service life of machines.

Pumps, fans, conveyors, washing gantries, etc. (ATS 01N2 model)

- Controlled deceleration:
 - Pressure surges eliminated,
 - Soft stopping.
- Limitation of current peaks on starting.

(ATS U01N2 model)

- Open to all communication protocols.
- Information of the various machine states (overload, underload, etc.).

Standards and certifications IEC/EN 60947-4-2, C-TICK











For pumping and ventilation machines, choose the tailor-made

Starter Altistart 48

Taming energy ...

With its patented TCS* torque control system, the Altistart 48 is the ideal solution for machines requiring perfectly controlled starting and stopping, particularly those for pumps and fans. It limits energy loss and reduces temperature rise. In addition, it very easily integrates in enclosures and automation systems.





- Pumps.
- Fans and high inertia machines.
- Compressors.
- Conveyors.



Main characteristics

- Starting and stopping of the machine by the Altistart 48 torque control system (TCS* patent).
- Thermal protection of the motor.
- Protection of the machine: underload and overload with adjustable threshold and times. locked rotor, control of the direction of rotation.
- Factory set for immediate start-up.
- Simplified customisation of settings using built-in display or the PowerSuite software.
- Through connection
- Control of starter bypass contactor to prevent heat dissipation.
- Dual configuration (2 motors).
- Numerous configurable inputs/outputs.
- Cascaded starting and deceleration of a number of motors.
- Modbus integrated, FIPIO, Profibus DP, DeviceNet, Ethernet.

*TCS: Torque Control System





Voltage ranges

- 230...415 V
- 208...690 V
- 50/60 Hz.

Altistart 48 for your applications...

- Suppression of pressure surges and valve surges.
- Protection against running dry, loss or inversion of phases and in the event of a locked rotor.

Exclusive

concept

■ Reduction of motor temperature rise: automatic changing of the motor to freewheel mode on stopping when the flow rate of the pump drops to a low level.

Fans and high inertia machines

- Smooth starting, preventing stress on the drive chain and slipping of belts.
- Smoke extraction function.
- Limitation of current and voltage drops on starting.
- Catching on the fly of a fan rotating in reverse.
- Braking torque when stopping.



Settings simplified using the PowerSuite software

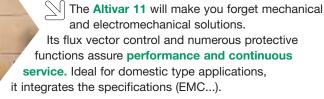
Standards and certifications UL / CSA / IEC 60947-4-2 CEM: classes A and B - DNV C-TICK / GOST / CCIB / NOM.





Drive Altivar 11

Real efficiency at a reduced size





- Conveyors, garage doors, lift doors, automatic parking barriers, check-out counters, etc...
- Grinders, saws, drills, exercise equipment, scrolling displays, retractable hoods, dough mixers, etc...



- Speed regulation by flux vector control.
- Speed range from 1 to 20.
- Protection of drive and of motor.
- Robustness even in severe environments from -10 to +50°C.
- Through wiring and connection using captive screws: simple replacement of electromechanical solutions.
- Compact, side by side mounting.
- DIN rail mounting possible.
- Integrated class B EMC filter or available as an option. Very low leakage current of drive compatible with 30 mA differential circuit-breaker for assured protection of personnel.
- Baseplate mounted version available.



Voltage ranges

- 100... 120 V / 200... 240 V single-phase.
- 200... 230 V 3-phase.
- 50/60 Hz

Altivar 11 for your applications...

Automatic parking barriers

Excellent dynamics: use of an advanced algorithmic vector motor control minimises cycle times.

Garage doors, lift doors, etc.

- Customisation of «Open / Close» cycles due to the assignment of several functions on the same logic input:
 - different ramps,
 - opening priority if obstructed on closing.
- Silent operation due to high switching frequency

Dough mixers, saws, etc.

Perfect mastery of this motor drive application: no tripping in the event of torque surges.





Back-up of each configuration and recall for all similar applications

Standards and certifications

CSA, EN 50178, EN 61800-3, EN 55011, EN 55022, class B and class A gr. 1, NOM 117,C-TICK













Drive Altivar 31

High performance instinctively!

With its high performance and numerous functions, the Altivar 31 still remains simple... "Plug and drive" for immediate start-up, compact and open access to automation systems using integrated Modbus and CANopen, it complies with local specifications (voltage ranges, positive and negative logic, etc).

Applications from 0.18 to 15 kW

- Pumps, fans,
- Conveyors, materials handling, packaging/ packing machines.
- Special machines...



Main characteristics

- Speed regulation by flux vector control.
- Speed range from 1 to 50.
- 2 Tn to 3 Hz without adjustment.
- Auto-tuning.
- Protection of motor and of drive
- Operation up to 50°C without derating.
- Brake sequence.
- Regulator and preset Pl.
- +/- speed, 16 preset speeds.
- Limit switch management.
- Traverse control (textile machines).
- Compact, side by side mounting.
- Integrated class A EMC filter, class B optional
- Integrated Modbus and CANopen, Fipio, Profibus DP, DeviceNet, Ethernet..
- Enclosed drive version available (in IP 55 enclosure) or kit drive version (drive on a metal fixing support with EMC filter).







Voltage ranges

- 200... 240 V single-phase
- 200... 240 V, 380... 500 V 3-phase
- 525... 600 V 3-phase
- 50/60 Hz

L'Altivar 31 for your applications...

Conveyors, materials handling, packaging machines, etc....

- High performance and reliability quaranteed:
 - Operation on line at -50% without derating,
 - Linear ramps, S, U or customised,
 - Brake sequence, etc.

Pumps and fans

- Enhanced functionalities
 - Automatic restart,
 - Stopping mode on faults,
 - Catch on the fly, etc.

Special machines

- Current limitation,
- Controlled stop on loss of line supply.
- Traverse control (textile machines), etc.





Adjustment in series with PowerSuite.

Standards and certifications CSA, EN 50178, EN 61800-3, EN 55011, EN 55022, class A, class B with option









For complex, high power machines...

Drive Altivar 58

Programmed performance

With its high performance speed regulation and ease of parametering, the **Altivar 58** is «the» reference up to 55 kW. Its access to all **industrial communication** networks and numerous **automation system options** enables simple adaptation to complex and advanced achines.



- Mechanical handling.
- Lifting.
- Modular machines.
- Textile machines.
- Transfer machines.
- Lifts.



Main characteristics

- Speed regulation by flux vector control.
- Speed range from 1 to 100.
- Energy savings, PI regulator (flow rate, pressure, etc.).
- Protection of motor and of drive.
- Dynamic braking (integrated transistor).
- Increase speed/decrease speed, S ramp, pre-selectable speeds, jog operation.
- Specific application cards for integrating automation system functions.
- Integrated EMC filter.
- Modbus integrated, FIPIO, Modbus Plus, Interbus-S, Profibus DP, AS-i, Unitelway, CANopen, DeviceNet, Ethernet.
- Baseplate mounted and ready-assembled version available.

Numerous options available.





Voltage ranges

■ 200...240 V single-phase,

Exceptional

adaptability

- 200...240 V / 380... 500 V 3-phase.
- 50/60 Hz.

Altivar 58 for your applications...

Mechanical handling, lifting

- Assured performance:
 - exceptional overtorque:2 Tn for 2 seconds.
 - Integrated brake sequence.
 - I/O update time: 2 ms.

Production line

- Precision of control and adjustment.
- Perfect integration in automation systems: access to all industrial communication networks.
- Ready-assembled IP55 version, closest possible mounting to the machine.



Graphical display of settings using Power *Suite*

Standards and certifications

CSA, EN 50178, IEC 1000-4-2 /4-3/4-4/4-5, IEC 1800-3, EN 55011, EN 55022 classe A and B



Contrôle vectoriel de flux avec capteur

Optimise the **drive performances** of your machines!

The drives Altivar 58 F and Altivar 68 F provide exceptional dynamics and accurate performance at low speed.

Even with communication modules, extensions and specific application cards, they are still **economical and compact.**

>>> ...select the high performance Altivar

Drive Altivar 68

Giving you the power



Robust and advanced, the Altivar 68 drive is designed for the most powerful applications found in industry and infrastructures. You will benefit from real energy savings.

In addition to user-friendly control and performance sized for your machines, you benefit from an efficient monitoring system.

Applications from 75 to 630 kW

- Lifting,
- Mechanical handling.
- Mixers, crushers,
- Extruders, presses,
- Centrifugal machines,
- Compressors.



Main characteristics

- Speed regulation by flux vector control.
- Speed range from 1 to 100.
- High overtorque on starting.
- 4 levels of energy saving.
- Protection of motor and of drive.
- Dual configuration (2 motors).
- Built-in PID regulator.
- Increase speed/decrease speed, pre-selectable speeds, jog operation.
- Comparator and logic functions.
- Modbus, FIPIO, Modbus Plus, Profibus DP.
- Ready-assembled IP23 or IP54 enclosed versions.

Numerous options available

Performance to meet every challenge

Voltage ranges

- 380...500 V 3-phase.
- 50/60 Hz.

Altivar 68 for your applications...

- Drive performance and safety:
 - Brake release sequences for lifting.
 - Torque at zero speed (model ATV 68F).
 - Control of several motors.

Centrifugal machines

■ Efficient braking via motor losses (0.3 Tn without braking module)



Setting-up simplified with PowerSuite

Standards and certifications CSA, EN 50178, IEC 61800-3.





Reused energy!

The Altivar 68R enables regeneration of energy on the supply. By combining the Altivar 68R reversible module with one or more Altivar 68 drives, you achieve significant savings:

- Energy common to several drives,
- Energy savings in braking phases, no heat dissipation restraints,
- "0" harmonics (reduction of transformer size.) It is particularly suited for lifting applications.





 Dynamics compatible with control by axis cards.

Modular machines

• Precision of numerical speed between several sections.

High performance lifting

• Drive performance and reduced cycle times.

For pumping and ventilation machines...

Drive Altivar 38 Mastering elements for more comfort

With its dedicated functions for the circulation of fluids, the Altivar 38 offers suitable solutions for industrial and commercial building environments:

energy savings, communication networks, remedies for installation pollution, etc.



- Air conditioning and heating.
- Air treatment systems.
- Fans.
- Pumps.



Main characteristics

- Speed regulation by flux vector control.
- Speed range from 1 to 10.
- Functions for pumps and fans:
 - PI regulator.
 - catch on the fly,
 - smoke extraction function,
 - pump switching card,
 - three jump frequencies.
- Factory set for immediate start-up.
- Simplified customisation of settings using built-in display or the Power Suite software.
- Anti-harmonic solutions: line chokes, complementary filtering offer...
- EMC filter integrated up to 75 kW, additional filters for high power ratings.
- N2, Lonworks, Ethernet. Modbus integrated, FIPIO, Modbus Plus, Interbus-S, Profibus DP, AS-i, Unitelway, CANopen, DeviceNet.
- Ready-assembled, ready for use version available.



- 380...460 V 3-phase
- 50/60 Hz

Altivar 38 for your applications...

Air conditioning and heating

- Adjustment of flow rates on the basis of actual need for better energy management: use of integrated PI regulator.
- Suppression of mechanical resonance with jump frequencies.
- Enhanced comfort with reduced noise pollution caused by fan operation: high switching frequency.

Air treatment in clean rooms, water treatment

- Continuity of service assured in the event of loss of measuring signals: fallback position, automatic / manual operation.
- Remote monitoring of the installation with connection of drives to a communication network.



With PC or Pocket PC, for use on site or in the office, etc.

Standards and certifications CSA, EN 50178 / IEC 1800-3 EN 55011 classe A -EN 55022 classe B











Selection guide

For pumping and ventilation machines

Starter **Altistart 48**



Standard class 10* applications

3-phase 208... 690 V

230 V		690 V		
kW / HP		kW		Α
4/5	ATS 48D17Q	15	ATS 48D17Y	17
5,5 / 7,5	ATS 48D22Q	18,5	ATS 48D22Y	22
7,5 / 10	ATS 48D32Q	22	ATS 48D32Y	32
9 / -	ATS 48D38Q	30	ATS 48D38Y	38
11 / 15	ATS 48D47Q	37	ATS 48D47Y	47
15 / 20	ATS 48D62Q	45	ATS 48D62Y	62
18,5 / 25	ATS 48D75Q	55	ATS 48D75Y	75
22 / 30	ATS 48D88Q	75	ATS 48D88Y	88
30 / 40	ATS 48C11Q	90	ATS 48C11Y	110
37 / 50	ATS 48C14Q	110	ATS 48C14Y	140
45 / 60	ATS 48C17Q	160	ATS 48C17Y	170
55 / 75	ATS 48C21Q	200	ATS 48C21Y	210
75 / 100	ATS 48C25Q	250	ATS 48C25Y	250
90 / 125	ATS 48C32Q	315	ATS 48C32Y	320
110 / 150	ATS 48C41Q	400	ATS 48C41Y	410
132 / -	ATS 48C48Q	500	ATS 48C48Y	480
160 / 200	ATS 48C59Q	560	ATS 48C59Y	590
- / 250	ATS 48C66Q	630	ATS 48C66Y	660
220 / 300	ATS 48C79Q	710	ATS 48C79Y	790
250 / 350	ATS 48M10Q	900	ATS 48M10Y	1000
355 / 455	ATS 48M12Q	-	ATS 48M12Y	1200

*Severe class 20 applications: starting time greater than 30 seconds. Upgrade the starter by 1 rating (example: 230 V / 75 kW = ATS48 C32Q)

Drive Altivar 38



3

3-phase 380.	460 V		
Integrated EN kW / HP	MC filter	Optional ex	ternal EMC filter
0,75 / 1	ATV 38HU18N4	90 / 125	ATV 38HC10N4
1,5 / 2	ATV 38HU29N4	110 / 150	ATV 38HC13N42
2,2 / 3	ATV 38HU41N4	132 / 200	ATV 38HC15N4
3 / -	ATV 38HU54N4	160 / 250	ATV 38HC19N4
4/5	ATV 38HU72N4	200 / 300	ATV 38HC23N4)
5,5 / 7,5	ATV 38HU90N4	220 / 350	ATV 38HC25N4)
7,5 / 10	ATV 38HD12N4	250 / 400	ATV 38HC28N4
11 / 15	ATV 38HD16N4	280 / 450	ATV 38HC31N4
15 / 20	ATV 38HD23N4	315 / 500	ATV 38HC33N42
18,5 / 25	ATV 38HD25N4*		
22 / 30	ATV 38HD28N4*		
30 / 40	ATV 38HD33N4*		
27 / 50	VI/\ 38HD46N4*		

*Without EMC filter, add the letter "X" to the end of the reference.

0,75 / 1	ATV 38HU18N4	90 / 125	ATV 38HC1
1,5 / 2	ATV 38HU29N4	110 / 150	ATV 38HC1
2,2 / 3	ATV 38HU41N4	132 / 200	ATV 38HC1
3 / -	ATV 38HU54N4	160 / 250	ATV 38HC1
4/5	ATV 38HU72N4	200 / 300	ATV 38HC2
5,5 / 7,5	ATV 38HU90N4	220 / 350	ATV 38HC2
7,5 / 10	ATV 38HD12N4	250 / 400	ATV 38HC2
11 / 15	ATV 38HD16N4	280 / 450	ATV 38HC3
15 / 20	ATV 38HD23N4	315 / 500	ATV 38HC3
18,5 / 25	ATV 38HD25N4*		
22 / 30	ATV 38HD28N4*		
30 / 40	ATV 38HD33N4*		
37 / 50	ATV 38HD46N4*		
45 / 60	ATV 38HD54N4*		
55 / 75	ATV 38HD64N4*		
75 / 100	ATV 38HD79N4*		

Selection guide

For simple machines

Starter **Altistart 01**



** Replace "••" in the reference by: "LU" for 200...240 V, "QN" for 380...415 V, "**RT**" for 440... 480 V.

Soft start units

3-phase 110 480 V					
460 V					
HP	Α				
0,5	3	ATS 01N103FT			
1,5	3	ATS 01N103FT			
2	6	ATS 01N106FT			
3	6	ATS 01N106FT			
5	9	ATS 01N109FT			
7,5	12	ATS 01N112FT			
	460 V HP 0,5 1,5 2 3 5	460 V HP A 0,5 3 1,5 3 2 6 3 6 5 9			

Single-phase 110... 480 V: please refer to our catalogue

Soft start - soft stop units*

3-phase 20	00 480 V *	*		
230 V	400 V	460 V		
kW / HP	kW	HP	Α	
0,75 / 1	1,5	2	6	ATS 01N206 ••
1,1 / 1,5	2,2	3	6	ATS 01N206 ••
1,5 / 2	3	5	9	ATS 01N209 ••
-	4	-	9	ATS 01N209 ••
2,2 / 3	5,5 / 5	7,5	12	ATS 01N212 ••
3 / -	-	-	12	ATS 01N212 ••
4/5	7,5	10	22	ATS 01N222 ••
5,5 / 7,5	11	15	22	ATS 01N222 ••
7,5 / 10	15	20	32	ATS 01N232 ••
*Available un t	o 75 kW · nles	se refer to	our cat	talogue

Soft start - soft stop units combined with TeSys® model U



*** Replace "•" by "A" for a standard unit "M", for a multifonction "B" for an updateable

3-phase 200 480 V						
230 V	400 V	460 V		Starter	Motor starter co	ntroller
kW / HP	kW	HP	Α	Altistart	TeSys® model U	
				Power base	Control unit***	
0,75 / 1	1,5	2	6	ATSU 01N206LT	LUB12	LUC•05BL
1,1 / 1,5	2,2	3	6	ATSU 01N206LT	LUB12	LUC•12BL
1,5 / 2	3	-	9	ATSU 01N209LT	LUB12	LUC•12BL
-	4	5	9	ATSU 01N209LT	LUB12	LUC•12BL
2,2 / 3	-	-	12	ATSU 01N212LT	LUB12	LUC•12BL
3 / -	5,5	7,5	12	ATSU 01N212LT	LUB32	LUC•18BL
4/5	7,5	10	22	ATSU 01N222LT	LUB32	LUC•18BL
5,5 / 7,5	11	15	22	ATSU 01N222LT	LUB32	LUC•32BL
7,5 / 10	15	20	32	ATSU 01N232LT	LUB32	LUC•32BL

Drive Altivar 11



Integrated EMC class B filter.



Current NEC 208 V 1999



Local controls and NPN logic.

*Version on baseplate: replace the letter «H» by «P».

"Europe" range

Single-phase 200 V to 240 V

kW	
0,18	ATV 11HU05M2E
0,37	ATV 11HU09M2E *
0,55	ATV 11HU12M2E *
0,75	ATV 11HU18M2E *
1,5	ATV 11HU29M2E
2,2	ATV 11HU41M2E

"America" range

Single-phase 100 120 V		Single-phase 200 240 V		3-phase 200 230 V
kW / HP		kW / HP		
0,18 / 0,25	ATV 11HU05F1U	0,18 / 0,25	ATV 11HU05M2U	ATV 11HU05M3U
0,37 / 0,5	ATV 11HU09F1U*	0,37 / 0,5	ATV 11HU09M2U*	ATV 11HU09M3U*
0,75 / 1	ATV 11HU18F1U	0,75 / 1	ATV 11HU18M2U*	ATV 11HU18M3U*
		1,5 / 2	ATV 11HU29M2U	ATV 11HU29M3U
		2,2 / 3	ATV 11HU41M2U	ATV 11HU41M3U

"Asia" range

Asia rang	,			
Single-phase 100 120 V		Single-phase	200 240 V	3-phase 200 230 V
kW / HP		kW / HP		
0,18 / 0,25	ATV 11HU05F1A	0,18 / 0,25	ATV 11HU05M2A	ATV 11HU05M3A
0,37 / 0,5	ATV 11HU09F1A*	0,37 / 0,5	ATV 11HU09M2A*	ATV 11HU09M3A*
0,75 / 1	ATV 11HU18F1A	0,75 / 1	ATV 11HU18M2A*	ATV 11HU18M3A*
		1,5 / 2	ATV 11HU29M2A	ATV 11HU29M3A
		2,2 / 3	ATV 11HU41M2A	ATV 11HU41M3A

Selection guide

For simple machines

Drive Altivar 31





* Local controls on the drive. add the letter "A" at the end of the reference

Single-phase	200 240 V*	3-phase 200	. 240 V *		
kW / HP		kW / HP		kW / HP	
0,18 / 0,25	ATV 31H018M2	0,18 / 0,25	ATV 31H018M3X	3 / -	ATV 31HU30M3X
0,37 / 0,5	ATV 31H037M2	0,37 / 0,5	ATV 31H037M3X	4/5	ATV 31HU40M3X
0,55 / 0,75	ATV 31H055M2	0,55 / 0,75	ATV 31H055M3X	5,5 / 7,5	ATV 31HU55M3X
0,75 / 1	ATV 31H075M2	0,75 / 1	ATV 31H075M3X	7,5 / 10	ATV 31HU75M3X
1,1 / 1,5	ATV 31HU11M2	1,1 / 1,5	ATV 31HU11M3X	11 / 15	ATV 31HD11M3X
1,5 / 2	ATV 31HU15M2	1,5 / 2	ATV 31HU15M3X	15 / 20	ATV 31HD15M3X
2,2/3	ATV 31HU22M2	2,2/3	ATV 31HU22M3X		

3-phase 380	500 V*	3-phase 525	600 V*		
kW / HP		kW / HP		kW / HP	
0,37 / 0,5	ATV 31H037N4	3 / -	ATV 31HU30N4	0,75 / 1	ATV 31H075S6X
0,55 / 0,75	ATV 31H055N4	4/5	ATV 31HU40N4	1,5 / 2	ATV 31HU15S6X
0,75 / 1	ATV 31H075N4	5,5 / 7,5	ATV 31HU55N4	2,2 / 3	ATV 31HU22S6X
1,1 / 1,5	ATV 31HU11N4	7,5 / 10	ATV 31HU75N4	4/5	ATV 31HU40S6X
1,5 / 2	ATV 31HU15N4	11 / 15	ATV 31HD11N4	5,5 / 7,5	ATV 31HU55S6X
2,2 / 3	ATV 31HU22N4	15 / 20	ATV 31HD15N4	7,5 / 10	ATV 31HU75S6X
				11 / 15	ATV 31HD11S6X
				15 / 20	ATV 31HD15S6X

For complex, high power machines

Drive Altivar 58 Altivar 58F*



*Flux vector control with sensor: in the reference, add the letter "F" before the letter "H" (380...500V)

High torque applications (170% Tn)** 3-phase 200... 240 V

Single-phase 2	200 240 V	3-phase 200	. 240 V
kW / HP		kW / HP	
0,37 / 0,5	ATV 58HU09M2	1,5 / 2	ATV 58HU29M2
0,75 / 1	ATV 58HU18M2	2,2 / 3	ATV 58HU41M2
1,5 / 2	ATV 58HU29M2	3 / -	ATV 58HU54M2
2,2 / 3	ATV 58HU41M2	4/5	ATV 58HU72M2
3 / -	ATV 58HU72M2	5,5 / 7,5	ATV 58HU90M2
4/5	ATV 58HU90M2	7,5 / 10	ATV 58HD12M2
5,5 / 7,5	ATV 58HD12M2		
3-phase 380	. 500 V		

kW/HP kW / HP 0,75/1ATV 58HU18N4 15 / 20 ATV 58HD23N4 1,5/2 ATV 58HU29N4 18,5 / 25 ATV 58HD28N4 2,2/3 ATV 58HU41N4 22 / 30 ATV 58HD33N4 ATV 58HU54N4 30 / 40 ATV 58HD46N4 3 / -4/5 ATV 58HU72N4 37 / 50 ATV 58HD54N4 5,5 / 7,5 ATV 58HU90N4 45 / 60 ATV 58HD64N4 ATV 58HD79N4 7,5 / 10 ATV 58HD12N4 55 / 75 11 / 15 ATV 58HD16N4

**ATV 58:

standard torque applications (120% Tn) from 22 to 55 kW: downgrade the drive by 1 rating (example: 22 kW = ATV 58HD28N4)

Drive Altivar 68 Altivar 68F*



with sensor: in the reference, add the letter "F" before the letter "C".

High torque applications (150% Tn)**

3-phase 400 \	V - 15% 500 V -	+ 10%		
kW / HP		kW / HP		
75 / 100	ATV 68C10N4	200 / 300	ATV 68C28N4	ļ
90 / 125	ATV 68C13N4	250 / 350	ATV 68C33N4	ļ
110 / 150	ATV 68C15N4	315 / 500	ATV 68C43N4	ļ
132 / 200	ATV 68C19N4	400 / 600	ATV 68C53N4	ļ
160 / 250	ATV 68C23N4	500 / 700	ATV 68C63N4	ļ

^{**}Standard torque applications (120% Tn): downgrade the drive by 1 rating (example: 132 kW = ATV 68C15N4). On 460 V, only the high torque is available.

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