

Variable speed drives
Altivar 71 / Altivar 61
Make way for *evolution!*



For 3-phase asynchronous motors from 0.37 to 630 kW.

Simply Smart !

Leverage **ingenuity**
and intelligence
for **ease** of use

Altivar 71 / Altivar 61

The *leading edge*!

With this new generation of drives, the expertise and know-how of Schneider Electric within the variable speed drive domain is truly highlighted.

Exceptional performance, advanced functions...whilst always keeping the emphasis on **simplicity**.

Open to all communication networks, applications, users....

The **Altivar 71** constant torque offer and the **Altivar 61** variable torque offer provides **ingenious solutions** for all your particular requirements.

A *powerful* fleet

- IP20, UL Type 1, 3-phase 200 to 240 V:
Altivar 71 from 0.37 to 75 kW
Altivar 61 from 0.75 to 90 kW
- IP20, UL Type 1, 3-phase 380 to 480 V:
Altivar 71 from 0.75 to 500 kW
Altivar 61 from **0.75 to 630 kW**
- IP54, UL Type 12, 3-phase
380 to 480 V:
Altivar 71 from 0.75 to 75 kW
Altivar 61 from 0.75 to 90 kW
- EMC filters integrated class A or B.
- Worldwide offer:
UL, CSA, CE, C-Tick, GOST ...



Remarkable performance

- Up to **220% overtorque** for the Altivar 71 constant torque offer.
- Up to **130% overtorque** for the Altivar 61 variable torque offer.
- Flux vector control with or without sensor for asynchronous motors.
- On-line auto-tuning (FVC).
- Speed or torque control.
- Output frequency up to 1000 Hz.
- Synchronous motor control without sensor.
- Energy saving. 2 pts/5 pts quadratic ratio.



Expandable capabilities

Basic equipment with a wealth of features: application functions, inputs/outputs, communication networks... that can be further extended by:

- input/output extension cards.
- encoder interface cards.
- communication cards.
- Controller Inside programmable card.
- Multipump cards.

Closely related *safety*

Protection at all levels

- **of the motor:** thermal protection - PTC probe or integrated electronic thermal relay, surge limitation,
- **of the machine:** Power Removal safety function (no unintended motor starting), alarm management, external fault management,
- **of the environment:** drive developed in accordance with the Eco-Design principle,
- **of the drive:** protection in the event of overheating, current limitation using hardware and software.

Easy to control...

- Graphic screen with customisable display.
- Plain text with 6 available languages (English, Chinese, German, Spanish, French and Italian) with possibility of adding other languages.
- Navigation button for easily “surfing” through the menus.
- «**Simply Start**» menu for quick start-up and immediate benefit of the full performance of the **Altivar 71** and of the **Altivar 61**.
- Function keys for short-cuts, on-line help or configurable for some applications.
- Continuous display of the operating parameters of the motor.



Altivar 71 / Altivar 61

Evolutionary equipment

Unrivalled basic equipment

With the many functions already integrated in the **Altivar 71** and in the **Altivar 61**, you **reduce the cost of solutions** for your machine. The most economical solution is offered without compromise!

With more than 150 functions available, you benefit from:

- considerably increased flexibility,
- possibilities for reducing the machine cycle time,
- improved performance by processing as close as possible to the control motor,
- a high level of integration.

Integrated Modbus and CANopen

With these two standard networks, you achieve:

- savings in cabling,
- a high data exchange transfer rate,
- direct connection to industrial automation systems.

Dialogue

The graphic terminal can be multipoint connected to several drives. Economical, the **Altivar 71** and the **Altivar 61** are also available with a 7-segment display for ratings up to 15 kW.

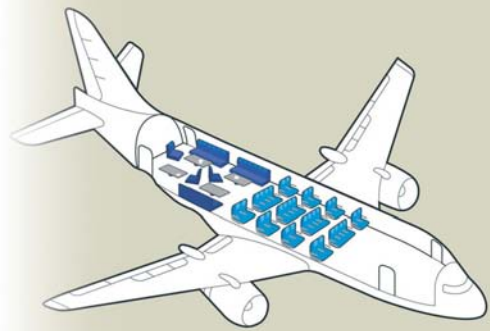
EMC mastered

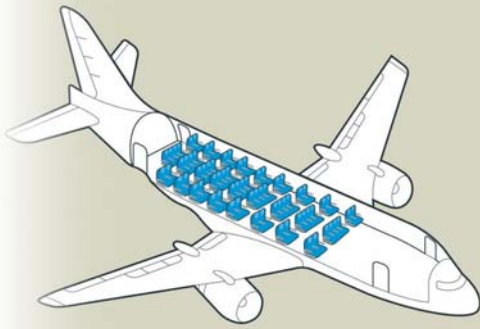
Incorporating level A conducted and radiated EMC filters, the **Altivar 71** and the **Altivar 61** simplifies installation and establishes conformity of the machines for CE marking, without additional costs.

“Power Removal” safety function

Conforming to the machine standard EN 954-1 category 3 and the standard for electrical installations IEC/EN 61508 SIL2, and certified by a competent body (INERIS), it enables:

- machine certification without difficulty,
- elimination of electromechanical redundancies,
- reduced cabling and installation times,
- savings in space in enclosures.





Modular configuration

You require additional inputs/outputs, a particular communication network....

All you have to do is select up to 3 cards from those available.

By sizing the **Altivar 71** or the **Altivar 61** yourself, you benefit from both **simplified integration** in your automation system and **optimised costs**.



■ **Input/output extension** cards:

logic inputs, open collector outputs, relays, PTC probe input, analogue inputs, analogue outputs, pulse input.

■ **Communication** cards:

Fipio, Ethernet, Modbus Plus, Profibus DP, DeviceNet, Uni-Telway, INTERBUS, for connection to the main communication networks available on the market.



■ **Controller Inside** programmable card:

Integration of programmes in the drive for decentralisation of the machine automation systems.

■ **Multipump** cards.



■ **Interface cards for incremental encoder**

RS422, open collector, Push-Pull, for:

- obtaining **full torque** even at zero speed,
- increasing **speed and torque precision**,
- increasing dynamic **performance**.

Altivar 71 / Altivar 61

The *Ace* at piloting

The Altivar 71 just like the Altivar 61, easily adapts its drive performance...

Whatever your choice of automation system solution, it always provides excellent efficiency for [improved productivity](#).. Access to the means of command, information or to actuators is direct, with complete [transparency](#).

Automatic piloting

The **Controller Inside** programmable card transforms the Altivar into a true [automation island](#).

- It incorporates [automation functions](#) appropriate to your profession.
- With its processing as close as possible to the control motor, the movements gain in [speed](#).
- Its CANopen master network enables [control of other drives](#) (Altivar 31, Altivar 61 or Altivar 71) and the exchange of any data.
- This card has [its own inputs/outputs](#) and access to those of the Altivar.
- The display functions of the graphic terminal are kept for [information and configuration](#).
- [Supervision](#) is available via Ethernet, Modbus (or an alternative communication network).

Semi-automatic piloting

One group of commands is issued by a [programmable controller](#), the other by the [operator](#).

- The source of commands such as start/stop instructions, references, etc. can be separated. You benefit from [quick reaction times](#) due to direct processing of information by the drive.
- The switching of these channels enables [adaptation of the piloting to the operating phase](#): setting-up, operation or maintenance.
- The control of the drive conforms to the protocol standards in use.
- Using the I/O mode, the networks are accessible to all: the Altivar is controlled in the same way as cabled logic.
- The possibility to supply the control with an external 24 V DC makes [diagnostics always available](#).



Manual Piloting

Commands are issued directly by the **operator** via a joystick, pushbuttons, switches or using the **graphic terminal**.

- The numerous **inputs/outputs** enable all the commands and information to be received.
- Commands can also be issued via the **graphic terminal**: start/stop instruction, speed reference, torque reference, PID reference, etc.
- The function keys of the terminal can be **assigned** to the preset speeds or PID references, +speed / -speed, channel switching, etc.
- On a channel switching, the instructions can be duplicated so as not to disturb the operation of the Altivar.



The 3 piloting modes can be combined



All locations

In enclosure

- Savings in space assured, with an IP20 degree of protection: reduced width of drive, side by side mounting...
- Reduction of heat dissipation inside the enclosure by installing the heatsink outside (degree of protection IP54).

On a wall

- Simple installation using mounting kit (protection degree IP21 or UL Type 1).
- **Altivar 71** and **Altivar 61** in IP54 version

In severe environments

- Resistance assured with **Altivar 71** and the **Altivar 61** version, conforming to category 3C2 of IEC 721-3-3.



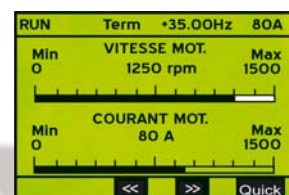
Altivar 71 / Altivar 61

Messages *received 10/10...*

The **Altivar 71** and the **Altivar 61** are professionals of the communication. its messages are clear, precise, illustrated... and the dialogue is also performed according to the requirements of the interlocutor.

Clarity

of the display comprising 8 lines of text and graphics. Legibility from 5 m. 6 languages available: English, Chinese, German, French, Spanish and Italian... with the possibility of simply downloading other languages.

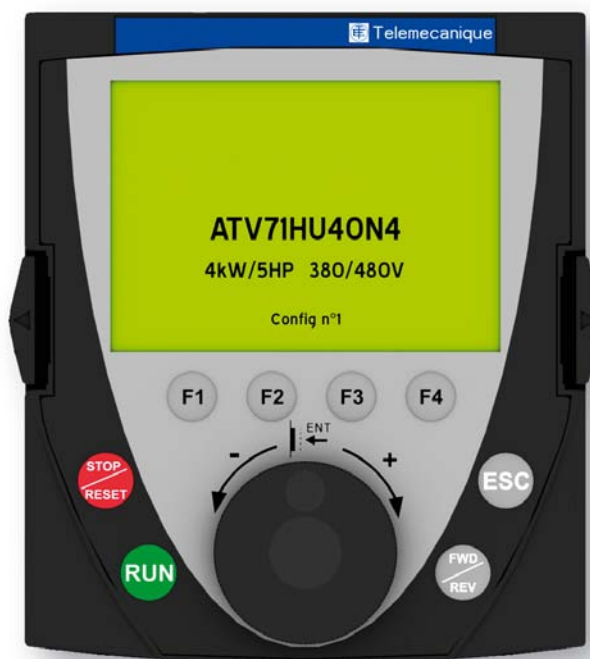


Flexibility

with its remote mounting alternatives:

- on the door of an enclosure, with an IP54 or IP65 degree of protection.
- for multipoint connection to several drives.

Storage of 4 configurations for transfer to other drives.



Simplicity

using the function keys for short-cuts, direct access and on-line help, display of the minimum and maximum values of the parameters

Protection

of parameters, control of their display, password protected, for simplified access to configurations with complete security.

Ergonomic

with its navigation button. With just one finger freely and quickly "surf" the drop-down menu.

Customisation

of parameters, display screens, monitoring line, creation of "user" menu, etc.

RUN	Term	+50.00Hz	5.4A
1.1-SIMPLY START			
Cde 2fils/3fils	:	Cde 2fils	
Macro-configuration	:	Manutention	
Standard freq.mot	:	50Hz IEC	
Puissance Nom.mot	:	2.2kW	
Tension nom.mot.	:	400V	
Code	<<	>>	Quick

The “Simply Start” menu provides you with assistance for obtaining the best from the **Altivar 71** as from the **Altivar 61** and for protecting your motor.

Configure without being aware of it!

- Many **macro-configurations** are already integrated that are designed for a wide variety of applications and uses: materials handling, hoisting, general use, connection to communication networks, PID regulation, master / slave, etc. They can easily be modified.
- The architecture of the menus, hierarchical parameter system and short-cut functions enable **simple and quick programming**, even for the most sophisticated functions.

RDY	Term	+0.00Hz	0.0A
1. MENU VARIATEUR			
1.1 SIMPLY START			
1.2. SURVEILLANCE			
1.3. REGLAGES			
1.4. CONTROLE MOTEUR			
1.5. ENTREES / SORTIES			
Code	<<	>>	Quick

RDY	Term	+0.00Hz	0.0A
RACCOURCI			
RETOUR MENU GENERAL			
ACCES DIRECT A			
10 DERNIERES MODIFS.			
RETOUR ECRAN MULTIPOINT			
Code			

More on board *services*

Ample and varied, the services available via the graphic terminal **simplify setting-up** and **diagnostics** of your machines.



With **PowerSuite**, software workshop **stay in control, even from a distance!**

For configuring, adjusting and setting-up your Altivar drive... by always keeping an eye on your installations via Modbus, Ethernet, a modem, Bluetooth®...

Oscilloscope function

integrated in the **Altivar 71** just as the **Altivar 61** :
display of channels using **PowerSuite**

RUN	Mod.	+50.00Hz	5.4A
COM. IMAGE			
Canal cmd	:	Modbus	
Valeur cmd	:	ABCD Hex	
Canal réf. actif	:	CANopen	
Réf. Fréq.			
Mot d'état			
Code			

RUN	Term	+50.00Hz	5.4A
Image entrées logiques			
PR	LI1	LI2	LI3
LI4	LI5	LI6	
LI7	LI8	LI9	LI10
MOT LI: 010101010101B			
	<<	>>	Quick

Display of inputs/outputs, communication, etc.

RDY	Term	+0.00Hz	0.0A
TEST IGBT			
IGBT 1		OK	
Diode 1		OK	
IGBT 2		Open	
Diode 2		Short circuit	
IGBT 3		OK	

Test functions for drive, motor, components, inputs/outputs, etc.

RUN	Term	+50.00Hz	5.4A
MESSAGE SERVICES			
Pour tout renseignement, appeler le poste 32 12 75			
	<<	>>	Quick

Service messages

all types of information on the display: a telephone number, a specific instruction... stored in the drive.

RUN	Term	+50.00Hz	5.4A
1.11 IDENTIFICATION			
ATV71HU22N4			
2.2kW/ 3HP			
380 / 480 V			
Appl. Software V1.0 IE 01			
MC Software V1.0 IE 01			
	<<	>>	Quick

Identity card incorporated in the drive simplifies **installed base management**.

Altivar 61

Performances on tap!

Altivar 61 is a range specifically for *pumps* and *fans* from 0.75 to 630 kW.

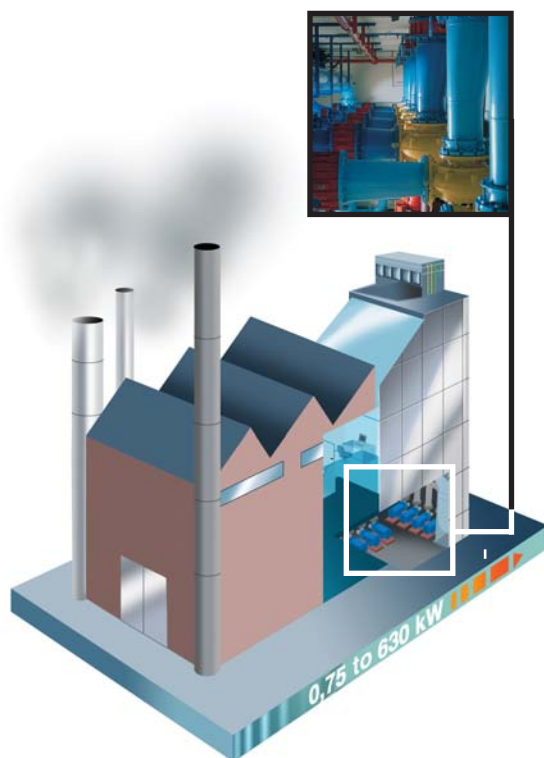
integration in installations subject to difficult environments using the Altivar 61 UL Type 12/IP54:

- IP54 protection for direct mounting on a wall.
- Integrated anti-harmonic solutions.
- Remedies for installation pollution.
- IP54 product with EN 55011 class A or class B (IEC/EN 61800-3) *integrated EMC filters*.



Wide range of integrated functions for variable torque applications:

- Pump and fan macro configurations.
- Zero flow detection, flow limitation.
- Sleep/wake function.
- Smoke extraction function.
- Underload and overload detection.
- PID regulator, PID references.
- Energy saving ratio, 2 pts/5 pts quadratic ratio.
- Alarm.
- Fault configuration.



Altivar 71 / Altivar 61

Eco-Design:

thinking of the future

Within its sustainable development policy, Schneider Electric is committed to environmental friendliness:

"Our products safeguard life, make goods safer and optimise the consumption of energy and natural resources.

We are actively involved in design, production, distribution and recycling processes that are environmentally friendly.

Protection of the environment forms an integral part of our strategic decision making".

The new generation of **Altivar 71 / Altivar 61** drives benefits from an **Eco-Design** approach. The same importance has been given to the "environment" criterion as that for other criteria, such as: performance, quality, ergonomics.... and this applies to each stage of the **life cycle of the product*** (manufacture, distribution, usage and end of life).

Exemplary end of life recovery ...

88% of the parts used for the Altivar 71 are recyclable.

They enable the recuperation of energy (incineration with energy recuperation) or of material (recycling, composting) conforming to the European directive WEEE (Waste Electrical & Electronic Equipment).

With Eco-Design



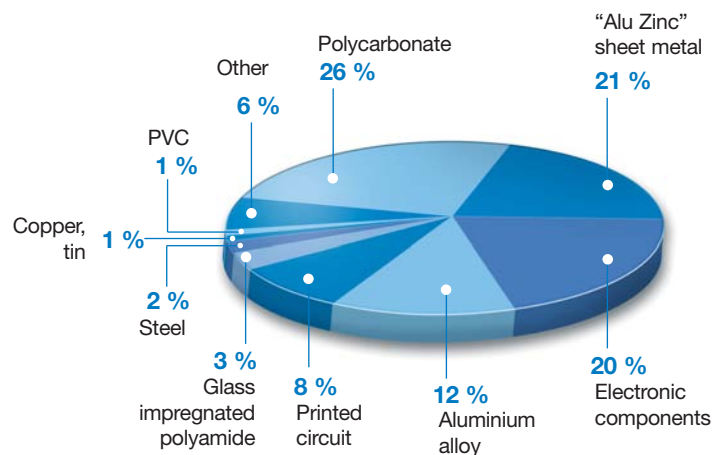
Without Eco-Design



70 %
Recovery rate imposed by the European directive WEEE.

... due to a strict selection and ideal combination of materials

Materials used for the Altivar have been selected for their minimal impact on the environment. Conformity to the European directive ROHS (Restriction Of Hazardous Substances) that prohibits the use of materials such as lead, chromium 6...



ISO 14 001 certified sites for their manufacturing operations since 1997:

- Pacy-sur-Eure / France
 - Mie / Japon
- and certified for their Eco-Design cycles since 2002.

*For the complete "Product Environmental Profile" document relating to the entire range, please contact Schneider Electric.

Analysis carried out using EIME (Environmental Information and Management Explorer) software and based on international averages.



Altivar 71

Excellent freedom of movement

The **Altivar 71** incorporates a wide range of functions, from very simple to very sophisticated. Its performance is perfectly coordinated for very many applications. With **Altivar 71**, the performance of your machines will soar!



Material handling:

- Reaction time on logic command: $2 \text{ ms} \pm 0.5 \text{ ms}$.
- Positioning on limit switches with optimisation of low speed operating time.



Hoisting:

- Weight measurement processing.
- High speed hoisting.
- Brake feedback control.
- Management of limit switches.



Wood machines:

- Operation up to 1000 Hz.
- Fast controlled stop on supply failure.



Process machines:

- PID regulator dedicated to process.
- High resolution of the reference (1/32000).
- Speed or torque control.
- Connection to main communication networks.
- Connection to common DC bus.



Textile machines:

- Precision of speed whatever the load by using synchronous motor.
- Up to 50Hz bandwidth.
- Traverse control function.



Packaging:

- Control via integrated CANopen network.

Selection guide

Altivar 71

Supply voltage: 3-phase 200... 240 V

Motor kW	HP	Drive References	Dimensions W x H x D (mm)
0.37	0.5	ATV 71H037M3 ⁽¹⁾	130 x 230 x 175
0.75	1	ATV 71H075M3 ⁽¹⁾	130 x 230 x 175
1.5	2	ATV 71HU15M3 ⁽¹⁾	130 x 230 x 175
2.2	3	ATV 71HU22M3 ⁽¹⁾	155 x 260 x 187
3	-	ATV 71HU30M3 ⁽¹⁾	155 x 260 x 187
4	5	ATV 71HU40M3 ⁽²⁾	155 x 260 x 187
5.5	7.5	ATV 71HU55M3 ⁽²⁾	175 x 295 x 187
7.5	10	ATV 71HU75M3 ⁽²⁾	210 x 295 x 213
11	15	ATV 71HD11M3X ⁽³⁾	230 x 400 x 213
15	20	ATV 71HD15M3X ⁽³⁾	230 x 400 x 213
18.5	25	ATV 71HD18M3X ⁽³⁾	240 x 420 x 236
22	30	ATV 71HD22M3X ⁽³⁾	240 x 420 x 236
30	40	ATV 71HD30M3X ⁽³⁾	320 x 550 x 266
37	50	ATV 71HD37M3X ⁽³⁾	320 x 550 x 266
45	60	ATV 71HD45M3X ⁽³⁾	320 x 550 x 266
55	75	ATV 71HD55M3X ⁽³⁾	320 x 920 x 377
75	100	ATV 71HD75M3X ⁽³⁾	350 x 1022 x 377

(1) For single-phase 0.37 to 5.5 kW range, select the next rating up
(Example: 2.2 kW - reference = ATV 71HU30M3).

(2) For single-phase operation, select the next rating up and add a line choke.

(3) Without EMC filter.

Supply voltage: 3-phase 380... 480 V

Motor kW	HP	Drive References	Dimensions W x H x D (mm)
0.75	1	ATV 71H075N4	130 x 230 x 175
1.5	2	ATV 71HU15N4	130 x 230 x 175
2.2	3	ATV 71HU22N4	130 x 230 x 175
3	-	ATV 71HU30N4	155 x 260 x 187
4	5	ATV 71HU40N4	155 x 260 x 187
5.5	7.5	ATV 71HU55N4	175 x 295 x 187
7.5	10	ATV 71HU75N4	175 x 295 x 187
11	15	ATV 71HD11N4	210 x 295 x 213
15	20	ATV 71HD15N4	230 x 400 x 213
18.5	25	ATV 71HD18N4	230 x 400 x 213
22	30	ATV 71HD22N4	240 x 420 x 236
30	40	ATV 71HD30N4	240 x 550 x 266
37	50	ATV 71HD37N4	240 x 550 x 266
45	60	ATV 71HD45N4	320 x 630 x 290
55	75	ATV 71HD55N4	320 x 630 x 290
75	100	ATV 71HD75N4	320 x 630 x 290
90	125	ATV 71HD90N4	320 x 920 x 377
110	150	ATV 71HC11N4	360 x 1 022 x 377
132	200	ATV 71HC13N4	340 x 1 190 x 377
160	250	ATV 71HC16N4	440 x 1 190 x 377
200	300	ATV 71HC20N4	595 x 1 190 x 377
220	350	ATV 71HC25N4	595 x 1 190 x 377
250	400	ATV 71HC25N4	595 x 1 190 x 377
280	450	ATV 71HC28N4	595 x 1 190 x 377
315	500	ATV 71HC31N4	890 x 1 390 x 377
355	-	ATV 71HC40N4	890 x 1 390 x 377
400	600	ATV 71HC40N4	890 x 1 390 x 377
500	700	ATV 71HC50N4	1 110 x 1 390 x 377

For up to 15 kW, add the letter "Z" to the end of the reference for an Altivar 71 incorporating a 7-segment terminal.

PowerSuite software workshop

PowerSuite CD-ROM for PC
(English, French, German, Chinese, Spanish and Italian) _____ VW3 A8104

Connection kit

for PC _____ VW3 A8106

Adaptor for wireless link

Modbus-Bluetooth® _____ VW3 A8114

USB-Bluetooth® _____ VW3 A8115

Input/output cards

Logic inputs/outputs

1 voltage output, 24 V

1 voltage output, -10 V

1 logic output, relay

4 programmable logic inputs

2 assignable logic outputs with open collector

1 input for 6 PTC probes max.

_____ VW3 A3201

Extended inputs/outputs

Same as logic inputs/outputs card +

2 analogue inputs

2 analogue outputs

1 pulse input

_____ VW3 A3202

Interface cards for incremental encoders

with RS 422 outputs, 5 V _____ VW3 A3401

with RS 422 outputs, 15 V _____ VW3 A3402

with open collector outputs, 12 V _____ VW3 A3403

with open collector outputs, 15 V _____ VW3 A3404

with push-pull outputs, 12 V _____ VW3 A3405

with push-pull outputs, 15 V _____ VW3 A3406

with push-pull outputs, 24 V _____ VW3 A3407

Controller Inside programmable card

_____ VW3 A3501

Communication cards

Fipio _____ VW3 A3311

Ethernet _____ VW3 A3310

Modbus Plus _____ VW3 A3302

Profibus DP _____ VW3 A3307

DeviceNet _____ VW3 A3309

Uni-Telway _____ VW3 A3303

INTERBUS _____ VW3 A3304

For full and detailed information on the Altivar 71 offer, please refer to our catalogue.



Altivar 61

The *power* of the elements!

The Altivar 61 offers you a wide range of functions for your pumps and fans. Its evolutionary design is particularly aimed at meeting your application requirements. The Altivar 61 enables you to touchdown smoothly...



Multipump: water distribution

- With its multipump cards, the Altivar 61 provides **flexibility, user-friendliness and adaptability** for the management of several pumps.
- **Monitoring and full control of the installation** by switching and spreading the wear and tear between pumps.
- Underload and overload detection.
- Detection of absence of fluid..



Ventilation: safety/smoke extraction

- Drive **forced start** function with fault inhibition, selection of running direction and speed reference.
- For high inertia applications, **braking possible** using resistors, **catch on the fly** by speed search regardless of the direction of rotation.
- Regulation of CO₂ by the integrated PI regulator.



Ventilation: Air treatment plant

- **Enhanced comfort with reduced noise pollution** caused by fan operation: jump frequencies, energy saving ratio, adjustment of switching frequency during operation, variable "white noise" frequency.

Selection guide

Altivar 61

Motor power		Triphase 200V to 240V	Dimensions (mm) within graphic terminal		
kW	HP	UL Type 1 / IP20	W	H	D
0.75	1	ATV61H075M3 (1)(4)	130	230	175
1.5	2	ATV61HU15M3 (1)(4)	130	230	175
2.2	3	ATV61HU22M3 (1)(4)	155	260	187
3	-	ATV61HU30M3 (1)(4)	155	260	187
4	5	ATV61HU40M3 (2)(4)	155	260	187
5.5	7.5	ATV61HU55M3 (2)(4)	175	295	187
7.5	10	ATV61HU75M3 (2)(4)	210	295	213
11	15	ATV61HD11M3X (3)(4)	230	400	213
15	20	ATV61HD15M3X (3)(4)	230	400	213
18.5	25	ATV61HD18M3X (3)	240	420	236
22	30	ATV61HD22M3X (3)	240	420	236
30	40	ATV61HD30M3X (3)	320	550	266
37	50	ATV61HD37M3X (3)	320	550	266
45	60	ATV61HD45M3X (3)	320	550	266
55	75	ATV61HD55M3X (3)(5)	320	920	377
75	100	ATV61HD75M3X (3)(5)	320	920	377
90	125	ATV61HD90M3X (3)(5)	360	1022	377

(1) For single-phase 0.75 to 7.5 kW range, select the next rating up
(example: 2.2 kW - reference = ATV61HU30M3).

(2) For single-phase operation, select the next rating up and add a line choke.

(3) Without EMC filter.

(4) For up to 45 kW, add the letter "Z" to the end of the reference for an Altivar 61 incorporating a 7-segment terminal.

(5) With integrated DC bus inductance.

Motor power		Triphase 380V to 480V	Dimensions (mm) within graphic terminal		
kW	HP	UL Type 1 / IP20	W	H	D
0.75	1	ATV61H075N4 (4)	130	230	175
1.5	2	ATV61HU15N4 (4)	130	230	175
2.2	3	ATV61HU22N4 (4)	130	230	175
3	-	ATV61HU30N4 (4)	155	260	187
4	5	ATV61HU40N4 (4)	155	260	187
5.5	7.5	ATV61HU55N4 (4)	175	295	187
7.5	10	ATV61HU75N4 (4)	175	295	187
11	15	ATV61HD11N4 (4)	210	295	213
15	20	ATV61HD15N4 (4)	230	400	213
18.5	25	ATV61HD18N4 (4)	230	400	213
22	30	ATV61HD22N4 (4)	240	420	236
30	40	ATV61HD30N4 (4)	240	550	266
37	50	ATV61HD37N4 (4)	240	550	266
45	60	ATV61HD45N4 (4)	320	630	290
55	75	ATV61HD55N4 (4)	320	630	290
75	100	ATV61HD75N4 (4)	320	630	290
90	125	ATV61HD90N4 (5)	320	920	377
110	150	ATV61HC11N4 (5)	320	920	377
132	200	ATV61HC13N4 (5)	360	1022	377
160	250	ATV61HC16N4 (5)	340	1190	377
220	350	ATV61HC22N4 (5)	440	1190	377
250	400	ATV61HC25N4 (5)	595	1190	377
315	500	ATV61HC31N4 (5)	595	1190	377
400	600	ATV61HC40N4 (5)	890	1390	377
500	700	ATV61HC50N4 (5)	890	1390	377
630	900	ATV61HC63N4 (5)	1120	1390	377

(4) For up to 75 kW, add the letter "Z" to the end of the reference for an Altivar 61 incorporating a 7-segment terminal.

(5) With integrated DC bus inductance.

Motor power		Triphase 380V to 480V	Dimensions (mm) within graphic terminal		
kW	HP	UL Type 12 / IP54	W	H	D
0.75	1	ATV61W075N4 (6)	235	490	272
1.5	2	ATV61WU15N4 (6)	235	490	272
2.2	3	ATV61WU22N4 (6)	235	490	272
3	-	ATV61WU30N4 (6)	235	490	272
4	5	ATV61WU40N4 (6)	235	490	286
5.5	7.5	ATV61WU55N4 (6)	235	490	286
7.5	10	ATV61WU75N4 (6)	255	525	286
11	15	ATV61WD11N4 (6)	255	525	286
15	20	ATV61WD15N4 (6)	290	560	315
18.5	25	ATV61WD18N4 (6)	310	665	315
22	30	ATV61WD22N4 (6)	310	665	315
30	40	ATV61WD30N4 (6)	284	720	315
37	50	ATV61WD37N4 (6)	284	880	343
45	60	ATV61WD45N4 (6)	284	880	343
55	75	ATV61WD55N4 (6)	362	1000	364
75	100	ATV61WD75N4 (6)	362	1000	364
90	125	ATV61WD90N4 (6)	362	1000	364

(6) with integrated EMC class A filters. To order a product with integrated EMC class B filters, add the letter "C" to the end of the reference.

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Input/output cards

Logic inputs/outputs

1 voltage output, 24 V

1 voltage output, -10 V

1 logic output, relay

4 programmable logic inputs

2 assignable logic outputs with open collector

1 input for 6 PTC probes max. [VW3 A3201](#)

Extended inputs/outputs

Same as logic inputs/outputs card +

2 analogue inputs

2 analogue outputs

1 pulse input [VW3 A3202](#)

Controller Inside programmable card [VW3 A3501](#)

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Profibus DP [VW3 A3307](#)

DeviceNet [VW3 A3309](#)

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LonWorks [VW3 A 3312](#)

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BACnet [VW3 A 3315](#)

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