

Variable speed drives

**Altivar 71 / Altivar 61 IP 54**

Make way for *evolution!*



For 3-phase asynchronous motors from 90 to 630 kW

*Simply Smart !*

Leveraging  
ingenuity  
and intelligence  
for ease of use

# Altivar 61 and Altivar 71 *ready-assembled* in IP 54 enclosure

Altivar 61 and Altivar 71 variable speed drives rated from 90 kW to 630 kW can be supplied ready-assembled in an IP 54 enclosure to facilitate installation and, in particular, to ensure optimum ventilation.

These ATV61E5•••N4• and ATV71E5•••N4• offer consist of one or two IP 54 enclosures with a non-modifiable hardware configuration for a 380... 480 V three phase supply only.

**The ready-assembled enclosure offer consist of:**

- One ready-assembled enclosure or two ready-assembled enclosures depending on the rating
- A drive on heatsink
- A switch and fast-acting fuses
- An IP 65 remote graphic display terminal kit

**All the options available for Altivar 61 and Altivar 71 drives can be used with the same rating of the ATV61E5•••N4• and ATV71E5•••N4• enclosed drives offer**



Altivar 61 IP 54 enclosed		
References	With drive	Power kW
ATV61E5C11N4	ATV61HC11N4	110 kW
ATV61E5C13N4	ATV61HC13N4	132 kW
ATV61E5C16N4	ATV61HC16N4	160 kW
ATV61E5C22N4	ATV61HC22N4	200 kW
ATV61E5C25N4 <sup>(1)</sup>	ATV61HC25N4	250 kW
ATV61E5C31N4 <sup>(1)</sup>	ATV61HC31N4	315 kW
ATV61E5C40N4 <sup>(3)</sup>	ATV61HC40N4	400 kW
ATV61E5C50N4 <sup>(3)</sup>	ATV61HC50N4	500 kW
ATV61E5C63N4 <sup>(3)</sup>	ATV61HC63N4	630 kW

(1) To add a compatible braking unit, order reference ATV61E5C25N4F and ATV61E5C31N4F.

Altivar 71 IP 54 enclosed		
References	With drive	Power kW
ATV71E5D90N4	ATV71HD90N4	90 kW
ATV71E5C11N4	ATV71HC11N4	110 kW
ATV71E5C13N4	ATV71HC13N4	132 kW
ATV71E5C16N4	ATV71HC16N4	160 kW
ATV71E5C20N4 <sup>(2)</sup>	ATV71HC20N4	200 kW
ATV71E5C25N4 <sup>(2)</sup>	ATV71HC25N4	250 kW
ATV71E5C28N4 <sup>(2)</sup>	ATV71HC28N4	280 kW
ATV71E5C31N4 <sup>(3)</sup>	ATV71HC31N4	315 kW
ATV71E5C40N4 <sup>(3)</sup>	ATV71HC40N4	400 kW
ATV71E5C50N4 <sup>(3)</sup>	ATV71HC50N4	500 kW

(2) To add a compatible braking unit, order reference ATV71E5C20N4F, ATV71E5C25N4F and ATV71E5C28N4F.

(3) To add a compatible braking unit, order the reference VW3A7E102

# Enclosed *solution* for Altivar 61 and Altivar 71



Material  
handling



Hoisting



Process  
machines



Wood  
machines



Ventilation:  
Air treatment  
plant  
safety/smoke  
extraction



Multipump:  
water  
distribution

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

Exceptional performance, advanced functions...whilst always maintaining emphasis on *simplicity*. Open to all communication networks, applications, users....

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



**Ready-assembled** in IP 54 enclosure

- A switch and fast-acting fuses
- An IP 65 remote graphic display terminal kit



**Pre-assembled** solution kit

- Time savings
- Simplicity
- Ruggedness



**Customized offer** with limited stock

- IP 23 or IP 54 compact version without separate cooling circuit
- IP 54 version with separate cooling circuit

**This equipment is supplied with operating instructions containing all the:**

- Parts lists
- Electrical diagrams
- Mechanical drawings

**Common characteristics:**

- Modular enclosed concept using SAREL Spacial 6000 enclosure
- Design in protection degree IP 23 or IP 54
- Option possibilities for the power section
- Options in control area in order to match the desired interface
- Braking function up to 750 kW
- Safety function "Power Removal"

# Realize your IP 54 enclosure with your *pre-assembled* Kit solution

With a simple reference, you can *assembly* all the mechanical part to realise your IP 54 enclosure



## Time savings

- Thermal and mechanical studies already carried out
- Test IP 54 approved
- Availability of the offer

## Simplicity

- A single reference at the time of the command
- Simplified assembly

## Ruggedness

- Reliability of equipment and approved mechanical concept
- Air exchanger kit for difficult and dusty environments

Kit	References		
	Altivar 61	Altivar 71	KIT
	ATV61HC11N4	ATV71HD90N4	VW3A9541
	ATV61HC13N4	ATV71HC11N4	VW3A9542
	ATV61HC16N4	ATV71HC13N4	VW3A9543
	ATV61HC22N4	ATV71HC16N4	VW3A9544
	ATV61HC25N4	ATV71HC20N4	VW3A9545
	ATV61HC31N4	ATV71HC25N4 ATV71HC28N4	
With braking unit VW3A7101	ATV61HC25N4 ATV61HC31N4	ATV71HC20N4 ATV71HC25N4 ATV71HC28N4	VW3A9546
Without braking unit	ATV61HC40N4 ATV61HC50N4 ATV61HC63N4	ATV71HC31N4 ATV71HC40N4 ATV71HC50N4	VW3A9547 VW3A9548 VW3A9549
Braking unit VW3A7102			VW3A9549
	Additional empty enclosed 600 mm		VW3A9550
	Additional empty enclosed 800 mm		VW3A9551





## Customize your enclosed version !

IP 23 or IP 54 compact version for the industrial plants and infrastructures

■ The Altivar 61 and Altivar 71 enclosed are delivered ready to be connected. This reduces the planning costs to the cabling and caters for a quick installation and commissioning of the drive. Generous space is provided to connect the power cables, although the design of the enclosure is optimized for minimum dimensions.



### Extended delivery range

In the modular system the options can be selected according to the demands.

Possible options:

- Main switch with door handle
- Line contactor
- Output-Motor-Filter
- Sinus-Motor-Filter
- Braking unit
- Mains current - and mains voltage display
- Circuit breaker
- Control voltage transformer
- Additional voltage
- Emergency off / Emergency stop
- Terminal extension
- Fieldbus communication
- Speed feedback
- Pt 100 switching device
- Measuring transducer
- Air conditioning
- Motor stand still heating control
- Motor external fan control
- Enclosure heating
- Enclosure lighting
- Plinth 200mm
- ...

### Custom-made designs

Our customer proximity and internal flexibility enables us to be able to also offer different custom-made designs.

IP 54 version with separate cooling circuit for harsh conditions.

■ The Altivar 61 and Altivar 71 enclosed with separate air flow are designed for usage in areas with higher environmental pollution. The protection degree IP 54 is reached via the suction of the power section cooling air through the plinth and guided through the Altivar enclosed in a sealed air duct. The air outlet is carried out using an attached air hood. Control losses can be evacuated by filter blowers or air conditioners for completely sealed versions.

### The special characteristics

- Enclosed with separate air passage for control part and power section <sup>(1)</sup>
- Basic design includes Altivar, AC lines shokes or DC shokes, superfast fuses, main switch, graphical keypad mounted in the cubicle door.
- Option, possibility in the mechanical design of the enclosure
- Spacious dimensioned control panel allowing supplementary extensions <sup>(1)</sup>

(1) only for IP54 with separate cooling circuit

To order these products, please contact your Schneider Electric Sales Office.

# The efficiency of Telemecanique branded *solutions*

Used in combination, Telemecanique products provide quality solutions, meeting all your **Automation** and **Control** applications requirements.



Simple machines  
**Altistart 01**: 0.37 to 75 kW  
**Altivar 11**: 0.18 to 2.2 kW  
**Altivar 31**: 0.18 to 15 kW



Complex, high power machines  
**Altivar 71**: 0.37 to 500 kW



Pumping and ventilation machines  
**Altistart 48**: 4 to 1 200 kW  
**Altivar 11...347**: 0.18 to 2.2 kW  
**Altivar 21**: 0.75 to 75 kW  
**Altivar 61**: 0.75 to 630 kW



## A worldwide presence

### Constantly available

- More than 5 000 points of sale in 190 countries.
- You can be sure to find the range of products that are right for you and which complies fully with the standards in the country where they are used.

### Technical assistance wherever you are

- Our technicians are at your disposal to assist you in finding the optimum solution for your particular needs.
- Schneider Electric provides you with all necessary technical assistance, throughout the world.

[www.telemecanique.com](http://www.telemecanique.com)



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