

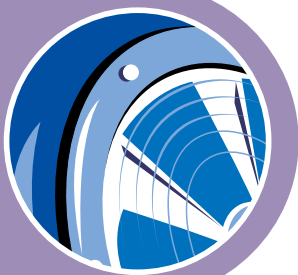
Variable speed drives

Altivar 38

Mastering *elements*
for *more comfort*



For 3-phase asynchronous motors from 0.75 to 315 kW.



Altivar 38 :

a dedicated range
for *pumps* and *fans*
from *0.75 to 315 kW*

The Altivar 38 controls the motor speed precisely,
offering both **comfort** and **energy savings**.

Uncompromisingly simple, it offers:

- **Immediate** start-up,
- Quick adjustments with **user-friendly** dialog tools,
- **Easy integration** in installations,
- Access to **suitable solutions** for the building environment.



Standards and approvals:
EN 50178 / IEC 1800-3
EN 55011 class A
EN 55022 class B

UL N998 **CE**

UL LISTED 170M
IND.CONT.EQ

Concentrated functions



Grande Arche (La Defense/France)
Transamerica Pyramid (San Francisco/USA)
Canary Wharf (London/Great Britain)



Air conditioning and heating

- Adjustment of flow rates on the basis of actual need for **better energy management**: use of built-in PI regulator.
- Suppression of mechanical resonance with jump frequencies.
- **Enhanced comfort with reduced noise pollution** caused by fan operation: flux vector control dedicated to pump and fan applications.



Air treatment in clean rooms, regulation of chilled water circuits

- **Ruggedness** for 24-hour continuous operation.
- **Continuity of service** assured in the event of loss of measuring signals: fallback position, automatic/manual operation.
- **Remote monitoring** of the installation with drives communication network connexions.

Microelectronics Company (France)



Ventilation

- **Safety with the smoke extraction function** in the event of a fire (drive does not stop).
- Catch on the fly by speed search regardless of the direction of rotation.
- Regulation of CO2 by the built-in PI regulator.



Pumping

- Autonomous management of a set of pumps, **maintaining constant pressure and spreading wear and tear** between the pumps with the Altivar 38 switching function.
- **Simplified start-up and diagnostics** with the Altivar 38
- **Management of installation faults**: if a pump is faulty, it is no longer taken into account during operation.

With the Altivar 38,
choose a ***taylor-***
made solution...
and so ***simple...***



Altivar 38 drives have all the
essential functions for **pumping**
and **fan** applications:

- PI regulator
- Automatic restart
- Catch on the fly
- Smoke extraction function
- Pump switching
- Three jump frequencies, etc.

... for maximum **comfort** while
actively participating in **cutting your**
energy consumption.



Immediate start-up

Wire up, connect... control

The Altivar 38 is immediately operational
due to its factory settings:

- I/O assignment,
- Protection,
- Adaptive tuning of ramps and motor
power supply to optimize energy
consumption.



Simple, *user-friendly* dialog tools

Take your pick to customize your settings...

- Built-in display with parameters
protected by padlocking.
- Terminal, PC or Pocket PC with
the Power Suite* software work-
shop for use on site or in the
office, etc.



"Just
enough" ...
No time wasting,
a limited number
of adjustments
needed for a quick
and efficient setup.



* Available in
5 languages
(English, French, German, Spanish and Italian)



Easy integration in installations

- **Compact**, the **Altivar 38** helps to reduce the size of your enclosures.
- **Low-cost**, the protection kit for direct wall-mounting offers IP21 degree of protection.
- **Ready-to-use**, the inclosed IP55 version allows an installation the closest possible to the motor.
- **Open** to all communication networks used:
 - in buildings: N2, Lonworks, Ethernet
 - in industry: FIPIO, Modbus Plus, (Modbus via integrated RS 485), Interbus-S, Profibus DP, AS-i, Unitelway, CanOpen, DeviceNet

the Altivar 38 facilitates the operation and the maintenance of your installations where ever you are :

- supervision of operations,
- adjustment,
- diagnostics,
- consumption monitoring, etc.

Transparent Building™

With the Ethernet card and a simple Web browser, Transparent Building™ lets you manage your buildings from any location, at any time ... with total efficiency.



Ethernet
TCP/IP

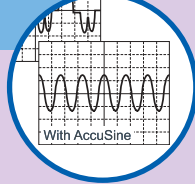
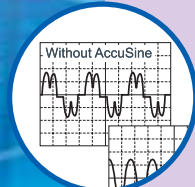




Suitable solutions for the building environment

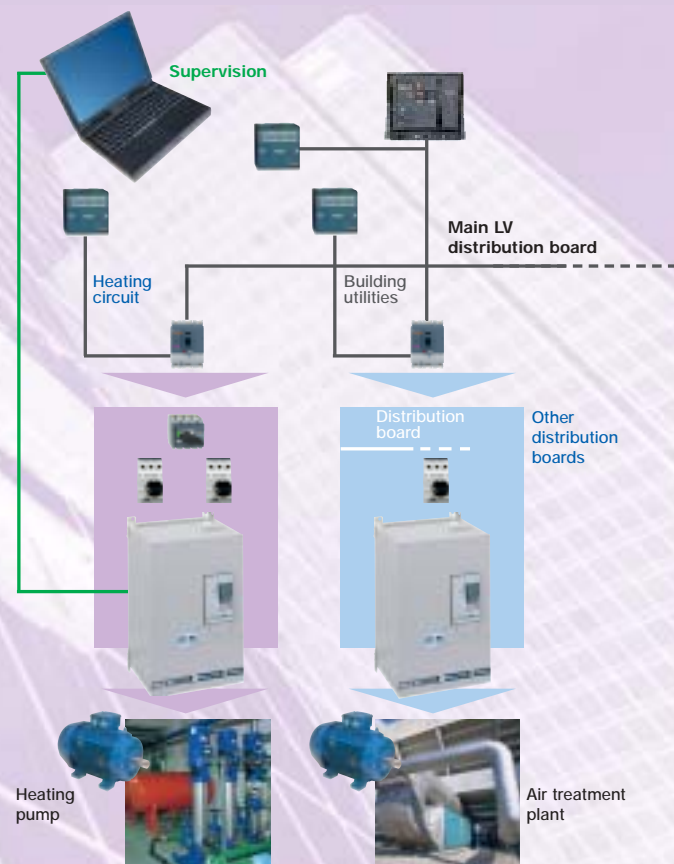
- To figure your installation **simply** and **safely**
 - Ecodial software (conforming to NF 15000).
 - Selection tables for type 2 coordination.
- **Anti-harmonic** solutions
 - Line chokes built-in or as an option
 - Complementary offer of passive filtering or active filtering with **AccuSine**.
 - Site design study on request
- Remedies for **installation pollution**
 - EMC integrated up to 75 kW
 - Additional filters for high power ratings and specific applications (class B, long cables)

Zero Harmonics
solution



Mastering electrical distribution

From transformer to motor control, a complete offer for protection, distribution, supervision, control and monitoring of your equipment



Altivar 38 *selection guide*



Altivar 38 «Energy»
Ready-assembled
version

- Altivar 38 drive,
- line choke,
- Vario switch
disconnecter,
- potentiometer,
- switch for selecting
the direction
of operation,
- operator terminal.

Variable speed drives 380 to 460 V - 50 / 60 Hz

Motor power kW	HP	Altivar 38 with heatsink	
0,75	1	ATV 38HU18N4	Built-in EMC filter
1,5	2	ATV 38HU29N4	
2,2	3	ATV 38HU41N4	
3	-	ATV 38HU54N4	
4	5	ATV 38HU72N4	
5,5	7,5	ATV 38HU90N4	
7,5	10	ATV 38HD12N4	
11	15	ATV 38HD16N4	
15	20	ATV 38HD23N4	Built-in EMC filter
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	Without EMC filter, add an X at the end of the reference
90	125	ATV 38HC10N4X	
110	150	ATV 38HC13N4X	
132	200	ATV 38HC15N4X	
160	250	ATV 38HC19N4X	
200	300	ATV 38HC23N4X	
220	350	ATV 38HC25N4X	
250	400	ATV 38HC28N4X	External EMC filters as option
280	450	ATV 38HC31N4X	
315	500	ATV 38HC33N4X	

Motor power kW	HP	Altivar 38 Energy
3	-	ATV 38ED05N4
4	5	ATV 38ED07N4
5,5	7,5	ATV 38ED09N4
7,5	10	ATV 38ED12N4
11	15	ATV 38ED16N4
15	20	ATV 38ED23N4
18,5	25	ATV 38ED25N4
22	30	ATV 38ED28N4
30	40	ATV 38ED33N4
37	50	ATV 38ED46N4
45	60	ATV 38ED54N4
55	75	ATV 38ED64N4
75	100	ATV 38ED79N4

A comprehensive range of *Motor Starters*

Increase your performance with
the associated **TeSys** components*

■ Variable speed drives



Altivar 11
0.18 to 2.2 kW



Altivar 38
0.75 to 315 kW



Altivar 31
0.18 to 15 kW



Altivar 58
0.37 to 75 kW



Altivar 68
75 to 630 kW

Also available in ready-assembled
versions ready for use in floor-mounted
or wall-mounted enclosures.

■ Soft start - soft stop units



LH4
6 to 85 A



Altistart 48
17 to 1200 A



■ Circuit-breakers,

■ Contactors,

...

up to the highest
powers

**For further details on the combinations
of products, please consult our catalog.*

A unique partner, a global presence



Constantly available, worldwide. With more than 5000 points of sale in 130 countries, you can be sure to find the range of products which is right for you and which complies totally with the standards in the country in which they are to be used.

Schneider Electric Services

Our services, near you, wherever you are. Our experts are at your disposal, working with you to design your customized solution. Our aim: to optimize your installations and improve your performance.

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