

IP 54 or IP 55 variable speed drives for asynchronous and synchronous motors

Type of machine	Simple machines	Pumps and fans (building (HVAC)) (1)
Power range for 50...60 Hz (kW) line supply		
Single-phase 200...240 V (kW)	0.18...15	0.75...75
Three-phase 380...480 V (kW)	0.18...2.2	—
Three-phase 380...500 V (kW)	—	0.75...75
—	0.37...15	—
Degree of protection		
Variants	IP 55 Enclosure user-definable up to 4 kW: Vario switch disconnector, LEDs, selector switch, potentiometer	IP 55 —
Drive	Output frequency	0.1...200 Hz
	Type of control	Sensorless flux vector control Voltage/frequency ratio
	Asynchronous motor	—
	Synchronous motor	170...200% of the nominal motor torque
	Transient overtorque	120% of the nominal motor torque for 60 seconds
Functions		
Number of functions	50	50
Number of preset speeds	16	7
Number of I/O	Analog inputs Logic inputs Analog outputs Logic outputs Relay outputs	3 6 1 — 2
Communication	Integrated	Modbus and CANopen
	Available as an option	Modbus TCP, Fipio, PROFIBUS DP, DeviceNet
Cards (available as an option)	—	—
Dialogue tools	IP 65 remote terminal	IP 54 or IP 65 remote graphic display terminal
Configuration tools	Setup software Configuration tool	PCSoft for ATV 212 drive Multi-Loader
Standards and certifications	IEC 61800-5-1, IEC 61800-3 (environments 1 and 2, categories C1 to C3) CE, UL, CSA, C-Tick, GOST	
References	ATV 31C	ATV 212W
Catalogues	“Altivar 31C variable speed drives” (1) Heating, Ventilation and Air Conditioning	“Altivar 212 variable speed drives”

More technical information on www.schneider-electric.com

**Pumps and fans
(industrial)**



0.75...90

—

0.75...90

—

Complex machines



0.75...75

—

0.75...75

—

IP 54

—	Equipped with a Vario switch disconnector
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—	Equipped with a Vario switch disconnector
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0.1...599 Hz from 0.75 to 45 kW
0.1...500 Hz from 55...90 kW

0.1...599 Hz from 0.75 to 37 kW
0.1...500 Hz from 45 to 75 kW

Sensorless flux vector control
Voltage/frequency ratio (2 or 5 points)
Energy saving ratio

Sensorless flux vector control
Voltage/frequency ratio (2 or 5 points)
ENA System

Vector control without speed feedback

Vector control with or without speed feedback

110% of the nominal motor torque for 60 seconds

220% of the nominal motor torque for 2 seconds
170% for 60 seconds

>100

8

2...4

6...20

1...3

0...8

2...4

>150

16

2...4

6...20

1...3

0...8

2...4

Modbus and CANopen

Modbus TCP Daisy Chain, Modbus/Uni-Telway, EtherNet/IP, DeviceNet, PROFIBUS DP V0 and V1, INTERBus, CC-Link, LonWorks, METASYS N2, APOGEE FLN, BACnet

Modbus TCP Daisy Chain, Modbus/Uni-Telway, EtherNet/IP, DeviceNet, PROFIBUS DP V0 and V1, INTERBus, CC-Link

I/O extension cards, "Controller Inside" programmable card, multi-pump cards, encoder interface cards

Interface cards for incremental, resolver, SinCos, SinCos Hiperface®, EnDat® or SSI encoders, I/O extension cards, Controller Inside programmable card

IP 54 or IP 65 remote graphic display terminal

SoMove

Simple Loader, Multi-Loader

IEC 61800-5-1, IEC 61800-3 (environments 1 and 2, categories C1 to C3), IEC 61000-4-2/4-3/4-4/4-5/4-6/4-11
CE, UL, CSA, DNV, C-Tick, NOM, GOST

ATV 61W

ATV 61E5

ATV 71W

ATV 71E5

"Altivar 61 variable speed drives"

"Altivar 71 variable speed drives"



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