Catalog | March 2025

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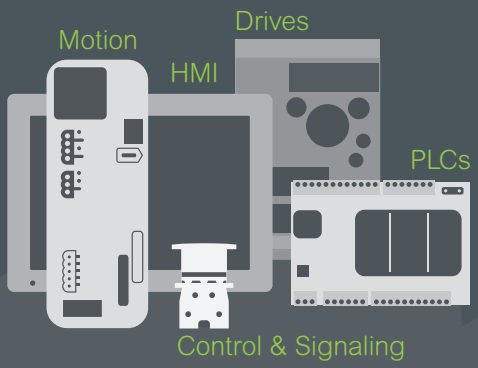

Easy Altivar 610

Variable speed drives

Drives for pumps and fans from 0.75 to 315 kW/1 to 500 HP

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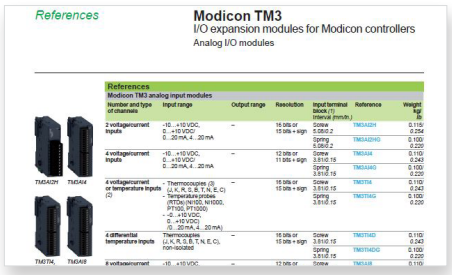

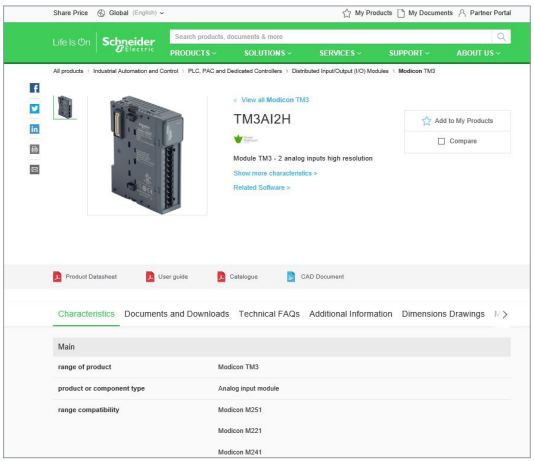

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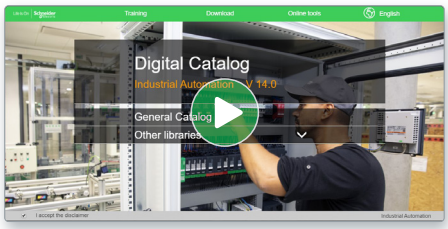

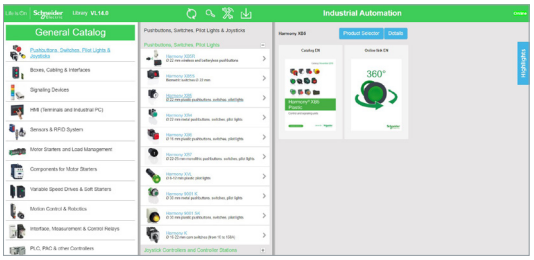

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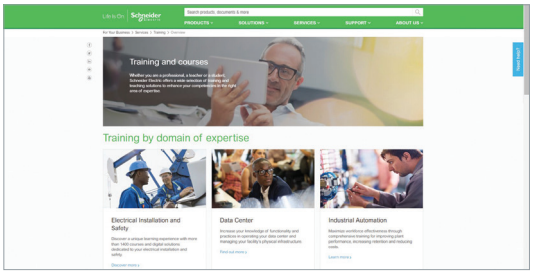

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Life Is On Schneider Electric

Altivar

Discover Altivar

Variable speed drives and soft starters

Improve your energy efficiency and sustainability with Altivar variable speed drives and soft starters. Manage motor control applications up to 20 MW with products ranging from compact products to custom-engineered solutions. Our connected devices offer built-in intelligence to improve operational efficiency, availability, and functional safety in various application areas, such as industrial processes, machines, or buildings.

Explore our offer

- Altivar Process
- Altivar Machine
- Altivar Building
- Altivar Soft Starters

Life Is On | Schneider Electric

General contents

Easy Altivar 610 variable speed drives

Variable speed drives
Easy Altivar 610
Market segments and domains

Water & wastewater

Oil & gas

Circulating pumps for building management

Introduction to the offer: applications

The Easy Altivar 610 drive is an IP20 frequency inverter for three-phase asynchronous motors (up to 315 kW/*500 HP*) and synchronous motors (up to 160 kW/*250 HP*), specially designed for standard applications in the following market segments and domains:

- Market segments

Water & wastewater

Oil & gas

- Domains

Process & machine management

Building management

Typical applications in the market segments

Water & wastewater

- Intake pump
- Booster pump
- Lifting pump
- Aeration blower

Oil & gas

- Circulating pump
- Drain pump
- Oil transfer pump

Pump and fan applications in the domains

Process & machine management

- Air cooling system fan
- Circulating pump
- Cooling fan
- Draft fan
- Compressor
- Conveyor

Building management

- Fan
- Circulating pump

Drives: page 6 | Configuration and runtime tools: page 10 | Options: page 12 | Motor starters: page 17 | Dimensions: page 19

Variable speed drives
Easy Altivar 610
Offer presentation

ATV610U07N4…U75N4

ATV610D11N4…D15N4

ATV610D18N4…D22N4

ATV610D30N4…D45N4

ATV610D55N4…D90N4

ATV610C11N4…C16N4

Presentation of the offer

The Easy Altivar 610 offer covers motor power ratings from 0.75 to 315 kW/*1 to 500 HP* for three-phase voltages between 380 and 460 V.

Easy Altivar 610 drives can help improve equipment performance and reduce operating costs by optimizing energy consumption and user comfort.

A communication module is available for seamless integration into the main automation architectures.
Easy Altivar 610 drives feature various configurable I/O as standard to facilitate adaptation to specific applications.
They offer a plug & play solution whereby parameters are preset in the factory to the desired configuration to help save process control and operating time.

Rugged

Easy Altivar 610 drives are robust products designed to adapt to various levels of thermal stress and to harsh environments.

- ■ Operating temperature (for continuous monitoring):
- □ Mounting in enclosure; mounted singly or side-by-side:
  - For ATV610U07N4●...C16N4● products:
    -15...+60 °C/*+5...+140 °F*, 45...60 °C/*113...140 °F* with derating
  - For ATV610C22N4...C31N4:
    -10...+60 °C/*+14...+140 °F*, 40...60 °C/*104...140 °F* with derating
- ■ Storage and transport temperature: -40...+70 °C /*-104...+158 °F*
- ■ Operating altitude:
- □ 0...1,000 m/*0...3,281 ft* without derating
- □ 1,000...3,000m/*3,281...9,842 ft,* for usage more above 1000m, please referer to the Installation Manual
- ■ Chemical class 3C3 conforming to IEC/EN 60721
- ■ Dust pollution resistance class 3S3 conforming to IEC/EN 60721
- ■ ATV610C22N4...C31N4 drives are certified as chemical class 3C2 and mechanical class 3S2 conforming to IEC/EN 60721
- ■ Electronic cards with protective coating
- ■ Protection to suit requirements:
- □ IP20 for mounting in enclosure
- □ IP40 on the top of the product (with top cover)
- □ IP43 for remote display terminal

Electromagnetic compatibility (EMC)

Compliance with electromagnetic compatibility requirements has been incorporated into the design of the drive, which simplifies installation and provides an economical means of helping to ensure equipment meets CE marking requirements.
Easy Altivar 610 drives have a category C3 EMC filter (see page 4).

Installation and maintenance

Easy Altivar 610 drives are ergonomically designed to adapt to any type of installation:

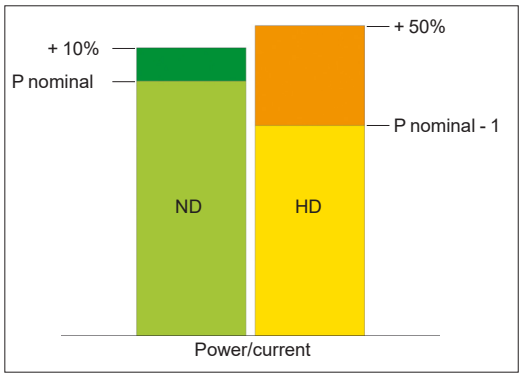
- ■ Products, systems, or integrated in iMCC
- ■ Easy installation of products and systems:
- □ Cable entry equipped with Romex cable glands to maintain an EMC connection for the power and control cable
- □ Color code for connections to the display terminal and control terminals
- ■ Asynchronous motors (up to 315 kW/*500 HP*) and synchronous motors (up to 160 kW/*250 HP*) drive in open loop for 0.1...500 Hz output frequency
- ■ Lower maintenance costs:
- □ Fans can be replaced in less than 5 minutes
- □ No maintenance tool required
- □ Limited number of parts

Environmental Data Program

Environmental Data Program

Easy Altivar 610 drives have been designed to have a smaller carbon footprint and meet with the following requirements:

- ■ RoHS according to European Directive 2011/65 and the Commission Delegated Directive (EU) 2015/863
- ■ REACH according to EU regulation 1907/2006
- ■ IEC 62635: The end-of-life instructions comply with the latest recycling rules.



Normal duty and Heavy duty modes

Normal duty and Heavy duty operating modes

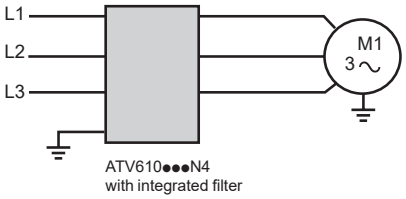
The Easy Altivar 610 offer covers motor power ratings from 0.75...315 kW/*1...500 HP* for three-phase voltages between 380 and 460 V.

Three-phase power supply	Motor power	Degree of protection	Reference
380...460 V	0.75 kW...315 kW *1...500 HP*	IP20/IP00	**ATV610U07N4●...C31N4**

Easy Altivar 610 variable speed drives are designed for use in two operating modes that can optimize the drive nominal rating according to the system constraints.

These two modes are:
- Normal duty (ND): Dedicated mode for applications requiring a slight overload (up to 110% for 60 s or 120% for 20 s) with a motor power no higher than the drive nominal power
- Heavy duty (HD): Dedicated mode for applications requiring a significant overload (up to 150% for 60 s) with a motor power no higher than the drive nominal power derated by one rating

These two operating modes make the Easy Altivar 610 range suitable for use in variable and constant torque applications, such as pump, fan, compressor, and conveyor.



Easy Altivar 610 drive with integrated EMC filter

Integrated functions

Integrated DC chokes

Above 4 kW/*5 HP*, Easy Altivar 610 variable speed drives are supplied with an integrated DC choke to reduce harmonic distortion.

Integrated EMC filters

Easy Altivar 610 drives have integrated radio interference input filters in accordance with the EMC standard for variable speed electrical power drive “products” IEC/EN 61800-3, edition 2, category C3 in environment 1 or 2, and to comply with the European EMC (electromagnetic compatibility) directive.

Maximum length of shielded cable *(1)* according to IEC/EN 61800-3, category C3: 50 m/*164 ft* (for all ratings).

The integrated EMC filter creates leakage current to ground. It is possible to reduce the leakage current by removing the filter capacitors (see the diagrams on our website or refer to the Installation Manual). In this configuration, the product does not meet the EMC requirements according to standard IEC 61800-3.

Communication protocol

The Modbus serial link allows the connection of configuration and runtime tools via two integrated ports.

(1) Values given depend on the nominal switching frequency of the drive. This frequency depends on the drive rating. If motors are connected in parallel, it is the total length of all cables that should be taken into account.

Variable speed drives
Easy Altivar 610
Configuration and runtime tools, accessories, and options

PF140391C

Extended I/O module

Configuration and runtime tools

Easy Altivar 610 drives can be supplied with a plain text display terminal (see page 10), offering the following functions:
- Drive control, adjustment, and configuration
- Display of current values (motor, I/O, etc.)
- Configuration storage and download
- Duplication of one drive configuration on another drive
- Remote use by means of appropriate accessories (see page 11)
- Read/write values

Accessories and options

Accessories

Easy Altivar 610 drives are designed to take complementary accessories to increase their functionality.
- Plain text display terminal:
  - Kit for mounting on enclosure door (see page 11)

Options

Easy Altivar 610 integrates a certain number of I/O as standard (see page 12).

The following options can be added:
- Modules:
  - Extended I/O module (see page 12):
    - 2 analog inputs configurable as voltage, current, or probe
    - 6 discrete inputs
    - 2 discrete outputs
  - Extended relay module (see page 12):
    - 3 relay NO discrete outputs
  - Communication module (see page 14):
    - Profibus DP V1 bus

- Passive filters (see page 15)

- Output filters:
  - dv/dt filters (see page 16)

Motor starters

Schneider Electric offers combinations of circuit breakers and contactors to be able to use Easy Altivar 610 drives in optimum conditions (see page 17).

Variable speed drives
Easy Altivar 610
Supply voltage 380…460 V 50/60Hz with keypad

ATV610U07N4

ATV610D18N4

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter

Motor			Power supply to the power section				Easy Altivar 610			
Nominal power indicated on rating plate *(1)*			Max. input current *(2)*		Apparent power	Max. prospective line Isc	Maximum continuous current *(1)*	Maximum transient current for 60 s	Reference	Weight
			380 V	460 V	460 V					
ND: Normal duty *(3)*										
HD: Heavy duty *(4)*										
	kW	***HP***	**A**	**A**	**kVA**	**kA**	**A**	**A**		**kg/ *lb***
ND	0.75	*1*	3.1	2.6	2.1	5	2.2	2.4	**ATV610U07N4**	3.135/ *6.9*
HD	0.37	*0.5*	1.7	1.4	1.1	5	1.5	2.3		
ND	1.5	*2*	5.7	4.8	3.8	5	4	4.4	**ATV610U15N4**	3.135/ *6.9*
HD	0.75	*1*	3.1	2.6	2.1	5	2.2	3.3		
ND	2.2	*3*	7.8	6.5	5.2	5	5.6	6.2	**ATV610U22N4**	3.135/ *6.9*
HD	1.5	*2*	5.6	4.6	3.7	5	4	6		
ND	3	–	10.1	8.4	6.7	5	7.2	7.9	**ATV610U30N4**	3.135/ *6.9*
HD	2.2	*3*	7.6	6.4	5.1	5	5.6	8.4		
ND	4	*5*	8.8	7.9	6.3	5	9.3	10.2	**ATV610U40N4**	4.045/ *8.9*
HD	3	–	7.2	6.2	4.9	5	7.2	10.8		
ND	5.5	*7.5*	11.6	10.5	8.4	22	12.7	14	**ATV610U55N4**	4.575/ *10*
HD	4	*5*	8.9	7.9	6.3	22	9.3	14		
ND	7.5	*10*	14.7	12.8	10.2	22	15.8	17.4	**ATV610U75N4**	4.575/ *10*
HD	5.5	*7.5*	11.3	10.2	8.1	22	12.7	19.1		
ND	11	*15*	22	19.6	15.6	22	23.5	25.9	**ATV610D11N4**	7.73/ *17*
HD	7.5	*10*	16.4	14.6	11.6	22	16.5	24.8		
ND	15	*20*	29.4	26	20.7	22	31.7	34.9	**ATV610D15N4**	7.73/ *17*
HD	11	*15*	23	20.8	16.6	22	23.5	35.3		
ND	18.5	*25*	37.2	33.5	26.7	22	39.2	43.1	**ATV610D18N4**	13.5/ *29.8*
HD	15	*20*	31.6	28.3	22.6	22	31.7	47.6		
ND	22	*30*	41.9	36.2	28.8	22	46.3	50.9	**ATV610D22N4**	13.5/ *29.8*
HD	18.5	*25*	36	31.6	25.2	22	39.2	58.8		
ND	30	*40*	62.5	55.8	44.5	22	61.5	67.7	**ATV610D30N4**	25.5/ *56.2*
HD	22	*30*	49.7	42.5	33.8	22	46.3	69.5		
ND	37	*50*	76.6	68.3	54.4	22	74.5	82	**ATV610D37N4**	25.5/ *56.2*
HD	30	*40*	65.8	56.8	45.2	22	59.6	89.4		

*(1) These values are given for a nominal switching frequency of 4 kHz up to **ATV610D45N4**, or 2.5 kHz for **ATV610D55N4...C31N4** for use in continuous operation.*
*The switching frequency is adjustable from 2…12 kHz up to **ATV610D45N4**, or from 1…8 kHz for **ATV610D55N4...C31N4**. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Installation Manual).*

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Values given for applications requiring a slight overload (up to 110% for 60 s or 120% for 20 s).

(4) Values given for applications requiring a slight overload (up to 150% for 60 s).

Variable speed drives
Easy Altivar 610
Supply voltage 380…460 V 50/60Hz with keypad

ATV610C11N4_IoP_Default

ATV610C11N4

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter *(continued)*

Motor			Power supply to the power section				Easy Altivar 610			
Nominal power indicated on rating plate *(1)*			Max. input current *(2)*		Apparent power	Max. prospective line Isc	Maximum continuous current *(1)*	Maximum transient current for 60 s	Reference	Weight
			380 V	460 V	460 V					
ND: Normal duty *(3)*										
HD: Heavy duty *(4)*										
	kW	*HP*	A	A	kVA	kA	A	A		kg/ *lb*
ND	45	*60*	92.9	82.7	65.9	22	88	97	ATV610D45N4	25.5/ *56.2*
HD	37	*50*	80.5	69.6	55.4	22	74.5	112		
ND	55	*75*	111.5	99.7	79.5	22	120	132	ATV610D55N4	53/ *117*
HD	45	*60*	95.9	84	66.9	22	88	132		
ND	75	*100*	147.9	130.2	103.7	22	145	160	ATV610D75N4	53/ *117*
HD	55	*75*	115.8	101.7	81	22	106	159		
ND	90	*125*	177.8	159.9	127.4	50	173	190	ATV610D90N4	53/ *117*
HD	75	*100*	155.8	138.1	110	50	145	218		
ND	110	*150*	201	175.7	140	50	211	232	ATV610C11N4 *(5)*	85.5/ *188.5*
HD	90	*125*	170	149.1	118.8	50	173	260		
ND	132	*200*	237	203.8	162.4	50	250	275	ATV610C13N4 *(5)*	85.5/ *188.5*
HD	110	*150*	201	174.2	138.7	50	211	317		
ND	160	*250*	284	249.5	198.8	50	302	332	ATV610C16N4 *(5)*	85.5/ *188.5*
HD	132	*200*	237	205.9	164	50	250	375		
ND	220	*350*	397	341	272	50	427	470	ATV610C22N4 *(5)*	173/ *381*
HD	160	*250*	296	258	206	50	302	453		
ND	250	*400*	451	383	305	50	481	529	ATV610C25N4 *(5)*	173/ *381*
HD	200	*300*	365	313	249	50	370	555		
ND	315	*500*	571	480	369	50	616	678	ATV610C31N4 *(5)*	180/ *397*
HD	250	*400*	460	391	301	50	481	722		

*(1) These values are given for a nominal switching frequency of 4 kHz up to **ATV610D45N4**, or 2.5 kHz for **ATV610D55N4...C31N4** for use in continuous operation.*
*The switching frequency is adjustable from 2…12 kHz up to **ATV610D45N4**, or from 1…8 kHz for **ATV610D55N4...C31N4**. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Installation Manual).*

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Values given for applications requiring a slight overload (up to 110% for 60 s or 120% for 20 s).

(4) Values given for applications requiring a slight overload (up to 150% for 60 s).

(5) This drive is IP00, you can order an IP21 conformity kit as option. See page 9

ATV610_IoP_S7_ATV610C22N4_Default

ATV610C22N4

Variable speed drives
Easy Altivar 610
Supply voltage 380…460 V 50/60Hz without keypad

ATV610U07N4Z

ATV610D11N4Z

ATV610D18N4Z

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter

Motor			Power supply to the power section				Easy Altivar 610			
Nominal power indicated on rating plate *(1)*			Max. input current *(2)*		Apparent power	Max. prospective line Isc	Maximum continuous current *(1)*	Maximum transient current for 60 s	Reference	Weight
			380 V	460 V	460 V					
***ND: Normal duty** (3)*										
***HD: Heavy duty** (4)*										
	kW	HP	A	A	kVA	kA	A	A		kg/lb
ND	0.75	1	3.1	2.6	2.1	5	2.2	2.4	ATV610U07N4Z●	2.985/6.58
HD	0.37	0.5	1.7	1.4	1.1	5	1.5	2.3		
ND	1.5	2	5.7	4.8	3.8	5	4	4.4	ATV610U15N4Z●	2.985/6.58
HD	0.75	1	3.1	2.6	2.1	5	2.2	3.3		
ND	2.2	3	7.8	6.5	5.2	5	5.6	6.2	ATV610U22N4Z●	2.985/6.58
HD	1.5	2	5.6	4.6	3.7	5	4	6		
ND	3	–	10.1	8.4	6.7	5	7.2	7.9	ATV610U30N4Z●	2.985/6.58
HD	2.2	3	7.6	6.4	5.1	5	5.6	8.4		
ND	4	5	8.8	7.9	6.3	5	9.3	10.2	ATV610U40N4Z●	3.885/8.565
HD	3	–	7.2	6.2	4.9	5	7.2	10.8		
ND	5.5	7.5	11.6	10.5	8.4	22	12.7	14	ATV610U55N4Z●	4.415/9.73
HD	4	5	8.9	7.9	6.3	22	9.3	14		
ND	7.5	10	14.7	12.8	10.2	22	15.8	17.4	ATV610U75N4Z●	4.415/9.73
HD	5.5	7.5	11.3	10.2	8.1	22	12.7	19.1		
ND	11	15	22	19.6	15.6	22	23.5	25.9	ATV610D11N4Z●	7.540/16.62
HD	7.5	10	16.4	14.6	11.6	22	16.5	24.8		
ND	15	20	29.4	26	20.7	22	31.7	34.9	ATV610D15N4Z●	7.540/16.62
HD	11	15	23	20.8	16.6	22	23.5	35.3		
ND	18.5	25	37.2	33.5	26.7	22	39.2	43.1	ATV610D18N4Z●	13.300/29.32
HD	15	20	31.6	28.3	22.6	22	31.7	47.6		
ND	22	30	41.9	36.2	28.8	22	46.3	50.9	ATV610D22N4Z●	13.300/29.32
HD	18.5	25	36	31.6	25.2	22	39.2	58.8		
ND	30	40	62.5	55.8	44.5	22	61.5	67.7	ATV610D30N4Z●	25.295/55.77
HD	22	30	49.7	42.5	33.8	22	46.3	69.5		
ND	37	50	76.6	68.3	54.4	22	74.5	82	ATV610D37N4Z●	25.295/55.77
HD	30	40	65.8	56.8	45.2	22	59.6	89.4		
ND	45	60	92.9	82.7	65.9	22	88	97	ATV610D45N4Z●	25.295/55.77
HD	37	50	80.5	69.6	55.4	22	74.5	112		
ND	55	75	111.5	99.7	79.5	22	120	132	ATV610D55N4Z●	52.045/114.7
HD	45	60	95.9	84	66.9	22	88	132		
ND	75	100	147.9	130.2	103.7	22	145	160	ATV610D75N4Z●	52.045/114.7
HD	55	75	115.8	101.7	81	22	106	159		
ND	90	125	177.8	159.9	127.4	50	173	190	ATV610D90N4Z●	52.045/114.7
HD	75	100	155.8	138.1	110	50	145	218		
ND	110	150	201	175.7	140	50	211	232	ATV610C11N4Z● *(5)*	85.445/188.4
HD	90	125	170	149.1	118.8	50	173	260		
ND	132	200	237	203.8	162.4	50	250	275	ATV610C13N4Z● *(5)*	85.445/188.4
HD	110	150	201	174.2	138.7	50	211	317		
ND	160	250	284	249.5	198.8	50	302	332	ATV610C16N4Z● *(5)*	85.445/188.4
HD	132	200	237	205.9	164	50	250	375		

*(1) These values are given for a nominal switching frequency of 4 kHz up to **ATV610D45N4Z●**, or 2.5 kHz for **ATV610D55N4Z●...C16N4Z●** for use in continuous operation.*
*The switching frequency is adjustable from 2…12 kHz up to **ATV610D45N4Z●**, or from 1…8 kHz for **ATV610D55N4Z●...C16N4Z●**. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves Installation Manual).*
(2) Typical value for the indicated motor power and for the maximum prospective line Isc.
(3) Values given for applications requiring a slight overload (up to 110% for 60 s or 120% for 20 s).
(4) Values given for applications requiring a slight overload (up to 150% for 60 s).
(5) This drive is IP00, you can order an IP21 conformity kit as option. See page 9

Drives: page 6 | Configuration and runtime tools: page 10 | Options: page 12 | Motor starters: page 17 | Dimensions: page 19

Variable speed drives
Easy Altivar 610
Mounting accessories

VW3A9708

Accessories for mounting of variable speed drives

IP conformity kit

For use with variable speed drives	IP rating	Power		Reference
		kW	*HP*	
ATV610C11N4●…C16N4●	IP21	110...160	*149...216*	VW3A9704
ATV610C22N4...C25N4	IP21	220...250	*350...400*	VW3A9707
ATV610C31N4	IP21	315	*500*	VW3A9708

Variable speed drives
Easy Altivar 610
Configuration and runtime tools
Plain text display terminal

ATV610U07N4_IoP_Default

Plain text display terminal mounted on the front of an ATV610U07N4 drive

PF142246

Plain text display terminal

Plain text display terminal

The plain text display terminal is supplied with ATV610●●●N4 drives. It can also be ordered as a spare part.

This terminal can be:
- Connected and mounted on the front of the drive
- Connected and mounted on an enclosure door using a remote-mounting accessory

This terminal is used to:
- Control, adjust, and configure the drive
- Display current values (motor, I/O, and process data)
- Store and download configurations (several configuration files can be stored in the memory)
- Duplicate the configuration of one powered-up drive on another powered-up drive

Other features:
- Displaying the device - via Web server and password; a display terminal is required to log in to the Web server for the first time
- Realtime clock providing data acquisition and event time-stamping functions
- 2 lines
- Languages (Chinese, English, French, German, Italian, Spanish, Portuguese, Turkish, Russian, Korean)
- White backlit LCD screen
- Operating range: -15...50 °C/*+5...122 °F*
- IP21 protection
- Removable, easy plug-in with RJ45 port

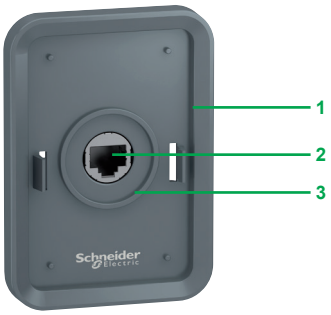
Description

The front of the display terminal comprises:
1. LCD backlight screen
2. OK button: saves the current value (ENT)
3. RUN button: local control of motor run command
4. STOP/RESET button: local control of motor stop command/clearing detected errors
5. ESC button: aborts a value, parameter, or menu to return to the previous selection
6. Home: root menu
7. Turn ±: navigation dial, increases or decreases the value, goes to the next or previous line

References

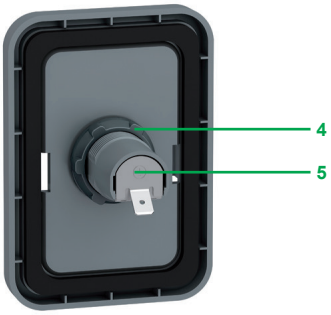
Description	Reference	Weight kg/ *lb*
Plain text display terminal	VW3A1113	0.200/ *0.441*

PF142222



Remote mounting kit for mounting plain text display terminal on enclosure door (front panel)

PF142251



Remote mounting kit for mounting plain text display terminal on enclosure door (rear panel)

Door mounting kit for plain text display terminal

Remote mounting kit for mounting on an enclosure door with IP43 degree of protection as standard

Description

The kit comprises:
- \- Tightening tool (also sold separately under the reference ZB5AZ905)
- 1 Mounting plate
- 2 RJ45 port for the plain text display terminal
- 3 Seal
- 4 Fixing nut
- 5 RJ45 port for connecting the remote-mounting cordset

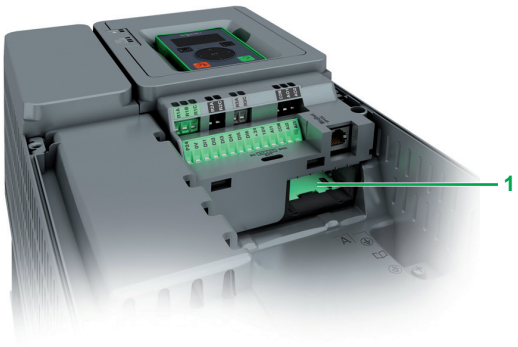
Cordsets should be ordered separately depending on the length required.
Drilling a hole with a standard Ø 22 mm tool, as used for a pushbutton, allows the unit to be mounted without needing a cut-out in the enclosure (Ø 22.5 mm/*Ø 0.89 in.* drill hole).

An anti-rotation function is provided that works as follows: when the kit is locked tightly on the panel by the nut, the gasket on the back cannot rotate.

References

Description	Length m/ *ft*	IP degree of protection	Reference	Weight kg/ *lb*
Basic keypad door mounting kit Order with remote-mounting cordset VW3A1104R●●●	–	43	VW3A1114	–
Tightening tool for remote mounting kit	–	–	ZB5AZ905	0.016/ *0.035*
Remote-mounting cordset equipped with 2 RJ45 connectors	1/ *3.28*	–	VW3A1104R10	0.050/ *0.110*
	3/ *9.84*	–	VW3A1104R30	0.150/ *0.331*
	5/ *16.40*	–	VW3A1104R50	0.250/ *0.551*
	10/ *32.81*	–	VW3A1104R100	0.500/ *1.102*

PF142250



Integrated I/O and I/O option modules

Presentation

Easy Altivar 610 integrates the following types of I/O as standard:
- 3 analog inputs 0....10 V/0...20 mA (software-configurable as voltage, current, temperature probe, and water level sensor)
- 6 digital inputs 24 V DC (2 of which can be programmed as pulse inputs)
- 2 analog outputs 0....10 V/0...20 mA (software-configurable as voltage or current)
- 3 relay outputs (configurable relay logic)

By installing I/O option modules, Easy Altivar 610 drives can meet the needs of applications that manage additional sensors or specific sensors.

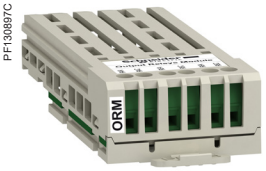
Two I/O option modules are available:
- Extended I/O module
- Extended relay module

These I/O modules and the communication modules insert into slot A **1** on Easy Altivar 610 drives.

PF140391C

Extended I/O module VW3A3203

PF130897C



Extended relay module VW3A3204

Extended I/O module

- 2 differential analog inputs configurable via software as current (0-20 mA/4-20 mA) or probe (PTC, PT100, or 2-wire or 3-wire PT1000) inputs
- 14-bit resolution
- 6 x 24 V ⎓ positive or negative discrete inputs
- Sampling: 1 ms max.
- 2 assignable discrete outputs

Extended relay module

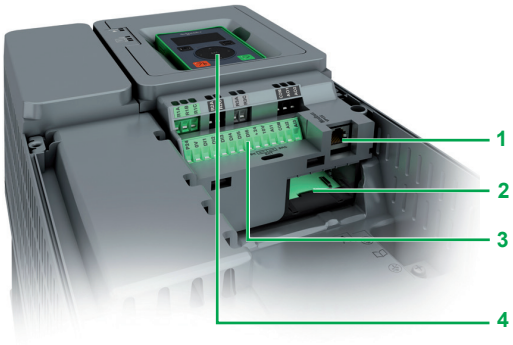
- 3 relay outputs with NO contacts
- 1 fixed screw terminal block

References

Description	I/O type				Reference	Weight kg/ lb
	Discrete inputs	Discrete outputs	Analog inputs	Relay outputs		
Extended I/O module	6	2	2 *(1)*	–	**VW3A3203**	–
Extended relay module	–	–	–	3 *(2)*	**VW3A3204**	–

(1) Differential analog inputs configurable via software as current (0-20 mA/4-20 mA) or probe (PTC, PT100, or 2-wire or 3-wire PT1000) inputs.
When configured as PTC probe inputs, they must never be used to protect an ATEX motor in applications in explosive atmospheres. Please refer to the Altivar Process ATV600, ATV900, and Modular ATEX guide.
(2) NO contacts.

PF142250



Integrated ports and communication protocol

Presentation

Easy Altivar 610 drives have two built-in RJ45 communication ports as standard:
- One port dedicated to field network operation for exchanging data with other devices via the Modbus serial link protocol **1**
- A second dedicated port for the multidrop connection of the following HMIs and configuration tools **4**:
  - the plain text terminal
  - a Harmony industrial HMI terminal

Easy Altivar 610 drives integrate the Modbus serial link communication protocol as standard. The detailed specifications for serial communication ports and the Modbus protocol are available on our website.

Description

1 RJ45 serial port
2 Slot A for extended I/O or communication modules
3 Fixed screw terminal blocks for 24 V ⎓ power supply and integrated I/O
4 RJ45 serial link for HMI (remote plain text terminal, Magelis terminal, etc.)

Easy Altivar 610 drives can take one communication module, or digital and analog I/O option module, or relay output module in slot A.

Note: The user manuals and description files (gsd) for devices on the communication buses and networks are available on our website.

PF095130

PROFIBUS DP communication module VW3A3607

PROFIBUS DP communication module

Presentation and functions

Easy Altivar 610 drives can also be connected to other industrial communication buses and networks using the communication module available as an option. This communication module is supplied in “cassette” format for ease of mounting/removal.

Dedicated communication module: PROFIBUS DP.
The PROFIBUS DP V1 module also supports the Profidrive and CiA402 profiles.
It is possible to maintain communication using a separate power supply for the control and power sections. Monitoring and diagnostics are possible via the network even if there is no power supply to the power section.

All drive functions can be accessed via the various communication networks:
- Configuration
- Adjustment
- Control
- Monitoring

Easy Altivar 610 drives offer a high degree of interfacing flexibility with the possibility of assigning, by configuration, the different control sources (I/O, communication networks, and HMI terminal) to control functions in order to meet the requirements of complex applications.

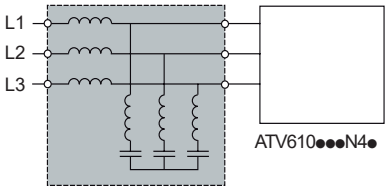
Communication is monitored according to the specific criteria for each protocol. However, regardless of the protocol, it is possible to configure how the drive responds to a detected communication interruption as follows:
- Define the type of stop when a communication interruption is detected
- Maintain the last command received
- Ignore the detected communication interruption

References

Description	Reference	Weight kg/ *lb*
PROFIBUS DP communication module Port: 1x 9-way female SUB-D connector Conforming to PROFIBUS DP V1 Profiles supported: ■ CiA 402 drive ■ Profidrive Offers several message handling modes based on DP V1	VW3A3607	0.140/ *0.309*
IP20 straight connectors *(1)* for Profibus module (SUB-D connection)	LU9AD7	–

(1) Only straight connectors are compatible with Easy Altivar 610 drives.

Variable speed drives
Easy Altivar 610
Option: Passive filters



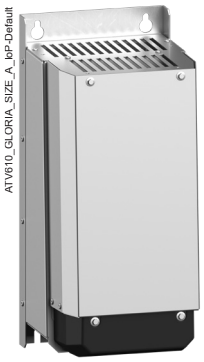
Easy Altivar 610 drive with passive filter

Presentation

Passive filters are used to obtain total harmonic distortion of less than 10%.
Reactive power increases at no load or low load. To help reduce this reactive power, the filter capacitors can be disconnected (see the diagrams on our website).
Passive filters provide IP20/IP00 protection.

Applications

Reduction of current harmonics in order to use drives in the first environment (restricted distribution, domestic applications).



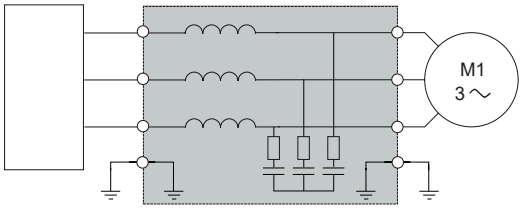
Passive filter VW3A46106A

Passive filters: 400 V 50 Hz three-phase supply

Corresponding Easy Altivar 610 drives	Line current value	Passive filter				Capacitor contactor
Reference	(380 V)	Reference	Quantity required per drive	IP degree	Weight	Reference *(1)*
	A				kg/ *lb*	
THDi < 10%						
ATV610U07N4●	3.1	VW3A46098A	1	IP20	6/ *13.2*	LC1DFK●●
ATV610U15N4●	5.7	VW3A46099A	1	IP20	9/ *19.8*	LC1DFK●●
ATV610U22N4●	7.8	VW3A46100A	1	IP20	12/ *26.5*	LC1DFK●●
ATV610U30N4●	10.1					
ATV610U40N4●	8.8	VW3A46101A	1	IP20	10/ *22*	LC1DFK●●
ATV610U55N4●	11.6	VW3A46102A	1	IP20	10/ *22*	LC1DFK●●
ATV610U75N4●	14.7	VW3A46103A	1	IP20	15/ *33.1*	LC1DFK●●
ATV610D11N4●	22	VW3A46104A	1	IP20	20/ *44.1*	LC1DFK●●
ATV610D15N4●	29.4	VW3A46105A	1	IP20	22/ *48.5*	LC1DFK●●
ATV610D18N4●	37.2	VW3A46106A	1	IP20	25/ *55.1*	LC1DGK●●
ATV610D22N4●	41.9	VW3A46107A	1	IP20	29/ *63.9*	LC1DGK●●
ATV610D30N4●	62.5	VW3A46108A	1	IP20	37/ *81.6*	LC1DMK●●
ATV610D37N4●	76.6	VW3A46109A	1	IP20	43/ *94.8*	LC1DMK●●
ATV610D45N4●	92.9	VW3A46110A	1	IP20	47/ *103.6*	LC1DPK●●
ATV610D55N4●	111.5	VW3A46111A	1	IP20	50/ *110.2*	LC1DTK●●
ATV610D75N4●	147.9	VW3A46112A	1	IP20	86/ *189.6*	LC1DTK●●
ATV610D90N4●	177.8	VW3A46113A	1	IP20	92/ *202.8*	LC1DWK●●
ATV610C11N4●	201	VW3A46114A	1	IP20	100/ *220.5*	LC1DWK●●
ATV610C13N4●	237	VW3A46115A	1	IP20	125/ *275.6*	LC1DWK●●
ATV610C16N4●	284	VW3A46116A	1	IP20	135/ *297.6*	LC1G115●●●●
ATV610C22N4	397	VW3A46118A	1	IP20	240/ *529.1*	LC1G185●●●●
ATV610C25N4	451					LC1G265●●●●
ATV610C31N4	570.9	VW3A46119A	1	IP00	270/ *595.2*	LC1G330●●●●

(1) Replace ●●/●●●● with the appropriate control voltage code

Variable speed drives
Easy Altivar 610
Options: dv/dt filters



ATV610●●●N4● dv/dt filter

Easy Altivar 610 drive with dv/dt filter

Presentation

Easy Altivar 610 drives maximum motor cable lengths without dv/dt filters

Easy Altivar 610 drive	Maximum cable length	
	Shielded cables	Unshielded cables
ATV610U07N4●…U55N4●	100 m/*328 ft*	150 m/*492 ft*
ATV610U75N4●...D45N4●	100 m/*328 ft*	200 m/*656 ft*
ATV610D55N4●…C16N4● ATV610C22N4●...C31N4●	150 m/*492 ft*	200 m/*656 ft*

To limit the impact of dv/dt filters and overvoltages at the motor side, it is recommended, for cables longer than 50 m/*164 ft*, that you check the motor insulation type and add an output filter if necessary.

Output filters are used to limit dv/dt at the motor terminals.

They are also used to:
- Limit overvoltages at the motor terminals to:
  - 1,000 V at 400 V ~ (rms value)
- Filter interference caused by opening a contactor placed between the filter and the motor
- Reduce the motor ground leakage current

The performance of dv/dt filters will be affected if the maximum cable lengths are exceeded. For an application with several motors connected in parallel, the cable length must include all cabling. If a cable longer than that recommended is used, the dv/dt filters may overheat.

dv/dt filters

Corresponding drives	Maximum length of motor cable			Degree of protection	Nominal current	Unit reference	Weight
	Maximum switching frequency *(1)*	Shielded cable *(2)*	Unshielded cable *(2)*				
	kHz	m/*ft*	m/*ft*	IP	A		kg/*lb*
Three-phase supply voltage: 380...460 V							
ATV610U07N4●...U22N4●	4	150/*492*	200/*656*	20	6	VW3A5301	11.000/*24.251*
ATV610U30N4●...U55N4●	4	150/*492*	200/*656*	20	15	VW3A5302	12.000/*26.455*
ATV610U75N4●...D15N4●	4	250/*820*	300/*984*	20	25	VW3A5303	12.000/*26.455*
ATV610D18N4●...D22N4●	4	250/*820*	300/*984*	20	50	VW3A5304	18.000/*39.683*
ATV610D30N4●...D45N4●	4	250/*820*	300/*984*	20	95	VW3A5305	19.000/*41.888*
ATV610D55N4●...D90N4●	2.5	300/*984*	350/*1,148*	00	180	VW3A5306	22.000/*48.502*
ATV610C11N4●...C16N4●	2.5	300/*984*	350/*1,148*	00	305	VW3A5307	40.000/*88.185*
ATV610C22N4	2.5	250/*820*	350/*1,148*	00	427	VW3A5106	58.000/*127.868*
ATV610C25N4...C31N4	2.5	200/*656*	350/*1,148*	00	481	VW3A5107	93.000/*205.23*

(1) The filters are designed to operate in a switching frequency range of between 2 and 8 kHz.
(2) Values given depend on the nominal switching frequency of the drive. This frequency depends on the drive rating. These cable lengths are given as examples only as they can vary depending on the application. They correspond to motors conforming to IEC 6034-25 and NEMA MG1/31.2006.

NSX160-MA150

+

LC1D115

+

ATV610D55N4

Applications

Circuit breaker/contactor/drive combinations help to ensure continuity of service in an installation.
The type of circuit breaker/contactor coordination selected can help reduce maintenance costs in the event of a motor short-circuit on the drive input by minimizing the time required to make the necessary repairs and the cost of replacement equipment. The suggested combinations provide coordination according to the drive rating.

The drive controls the motor, provides a monitoring function against short-circuits between the drive and the motor, and helps protect the motor cable against overloads. Overload monitoring is provided by the drive's motor thermal monitoring function if this has been enabled. Otherwise, an external monitoring device such as a probe or thermal overload relay should be provided. The circuit breaker helps protect the drive's power cables against short-circuits.

IEC standard motor starters

Motor Power *(1)*		Drive reference	Circuit breaker				Line contactor reference *(2)*
			Global reference	Magnetic protection rating	Ics *(1)*	Irm	
kW	*HP*			A	kA	A	
Three-phase supply voltage: 380…460 V 50/60 Hz							
0,75	*1*	ATV610U07N4●	GV2L08	4	5	74	**LC1D09●●**
1,5	*2*	ATV610U15N4●	GV2L10	6,3	5	91	
2,2	*3*	ATV610U22N4●	GV2L14	10	5	149	
3	–	ATV610U30N4●	GV2L16	14	5	253.4	**LC1D25●●**
4	*5*	ATV610U40N4●	GV2L16	14	5	253.4	
5,5	*7,5*	ATV610U55N4●	GV2L16	14	22	253.4	
7,5	*10*	ATV610U75N4●	GV2L20	18	22	341	**LC1D32●●**
11	*15*	ATV610D11N4●	GV2L22	25	22	388.3	
15	*20*	ATV610D15N4●	GV3L32	32	22	448	**LC1D40A●●**
18,5	*25*	ATV610D18N4●	GV3L40	40	22	560	**LC1D50A●●**
22	*30*	ATV610D22N4●	GV3L50	50	22	700	
30	*40*	ATV610D30N4●	GV3L65	65	22	910	**LC1D65A●●**
37	*50*	ATV610D37N4●	**GV4L80●**	80	22	480	**LC1D80●●**
45	*60*	ATV610D45N4●	**GV4L115●**	115	22	690	**LC1G115●●●●**
55	*75*	ATV610D55N4●	**NSX160●●MA150**	150	22	1350	
75	*100*	ATV610D75N4●	**NSX160●●MA150**	150	22	1350	**LC1G150●●●●**
90	*125*	ATV610D90N4●	**NSX250●●MA220**	220	50	1980	**LC1G225●●●●**
110	*150*	ATV610C11N4●	**NSX250●●MA220**	220	50	1980	
132	*200*	ATV610C13N4●	**NSX400.Mic 1.3M 320A**	320	50	4800	**LC1G265●●●●**
160	*250*	ATV610C16N4●	**NSX400.Mic 1.3M 320A**	320	50	4800	**LC1G330●●●●**
220	*350*	ATV610C22N4	**NSX630.Mic 1.3M 500A**	500	50	6500	**LC1G400●●●●**
250	*400*	ATV610C25N4	**NSX630.Mic 1.3M 500A**	500	50	6500	**LC1G500●●●●**
315	*500*	ATV610C31N4	**NS630● Micrologic 2 or 5**	800	50	1600	**LC1G630●●●●**

(1) At 400/415 V.
(2) Replace ●/●●/●●●● with the control voltage code indicated in the table below:

Basic reference	Power supply	Control voltage code			
	Volts ∿	380	415	440	
LC1D09…LC1D80	50/60 Hz	**Q7**	**N7**	**R7**	
	50 Hz	**Q5**	**N5**	**R5**	
	60 Hz	**Q6**	–	**R6**	
	Volts ∿	**24...48**	**48...130**	**100...250**	**200...500**
LC1G115…LC1G500		**BEEA**	**EHEA EHEN**	**KUEA KUEN**	**LSEA LSEN**
LC1G630		–	**EHEA EHEN**	**KUEN**	**LSEA LSEN**

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Center.

Variable speed drives
Easy Altivar 610
Drives and fuses

Coordination table between drives and fuses

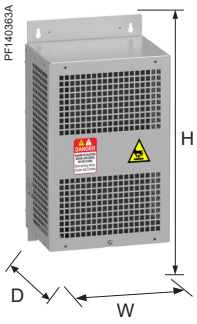
Variable speed drives					Semi-conductor fuses	
Line current		Isc	Reference	Power	Nominal current	Type
380 V	460 V					
		kA		kW	A	
3.1	2.6	5	ATV610U07N4●	0.75	8	gR
5.7	4.8	5	ATV610U15N4●	1.5	10	gR
7.8	6.5	5	ATV610U22N4●	2.2	12	gR
10.1	8.4	5	ATV610U30N4●	3	20	gR
8.8	7.9	5	ATV610U40N4●	4	16	gR
11.6	10.5	22	ATV610U55N4●	5.5	20	gR
14.7	12.8	22	ATV610U75N4●	7.5	25	gR
22	19.6	22	ATV610D11N4●	11	40	gR
29.4	26.0	22	ATV610D15N4●	15	50	gR
37.2	33.5	22	ATV610D18N4●	18.5	63	gR
41.9	36.2	22	ATV610D22N4●	22	80	gR
62.5	55.8	22	ATV610D30N4●	30	100	gR
76.6	68.3	22	ATV610D37N4●	37	125	gR
92.9	82.7	22	ATV610D45N4●	45	160	gR
111.5	99.7	22	ATV610D55N4●	55	160	gR
147.9	130.2	22	ATV610D75N4●	75	250	gR
177.8	159.9	50	ATV610D90N4●	90	250	gR
200	175.7	50	ATV610C11N4●	110	315	aR
236	203.8	50	ATV610C13N4●	132	350	aR
283	249.5	50	ATV610C16N4●	160	400	aR
397	341	50	ATV610C22N4●	220	630	aR
451	383	50	ATV610C25N4●	250	700	aR
571	463	50	ATV610C31N4●	315	900	aR

Variable speed drives
Easy Altivar 610
ATV610●●●N4● drives

Variable speed drives 380...460 V IP20

Overall dimensions

Reference		W x H x D	
		mm	*in.*
ATV610U07N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610U15N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610U22N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610U30N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610U40N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610U55N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610U75N4●		145 x 297 x 203	*5.71 x 11.69 x 7.99*
ATV610D11N4●		171 x 360 x 233	*6.73 x 14.17 x 9.17*
ATV610D15N4●		171 x 360 x 233	*6.73 x 14.17 x 9.17*
ATV610D18N4●		211 x 495 x 232	*8.31 x 19.50 x 9.13*
ATV610D22N4●		211 x 495 x 232	*8.31 x 19.50 x 9.13*
ATV610D30N4●		226 x 613 x 271	*8.90 x 24.10 x 10.67*
ATV610D37N4●		226 x 613 x 271	*8.90 x 24.10 x 10.67*
ATV610D45N4●		226 x 613 x 271	*8.90 x 24.10 x 10.67*
ATV610D55N4●		290 x 762 x 323	*11.42 x 30 x 12.72*
ATV610D75N4●		290 x 762 x 323	*11.42 x 30 x 12.72*
ATV610D90N4●		290 x 762 x 323	*11.42 x 30 x 12.72*
ATV610C11N4●		300 x 850 x 375	*11.81 x 33.46 x 14.76*
	With option VW3A9704	300 x 1156 x 375	*11.81 x 45.51 x 14.76*
ATV610C13N4●		300 x 850 x 375	*11.81 x 33.46 x 14.76*
	With option VW3A9704	300 x 1156 x 375	*11.81 x 45.51 x 14.76*
ATV610C16N4●		300 x 850 x 375	*11.81 x 33.46 x 14.76*
	With option VW3A9704	300 x 1156 x 375	*11.81 x 45.51 x 14.76*
ATV610C22N4		440 x 1196 x 379	*17.32 x 47.09 x 14.92*
	With option VW3A9707	446 x 1579 x 379	*17.56 x 62.17 x 14.92*
ATV610C25N4		440 x1196 x 379	*17.32 x 47.09 x 14.92*
	With option VW3A9707	446 x 1579 x 379	*17.56 x 62.17 x 14.92*
ATV610C31N4		595 x1196 x 379	*23.43 x 47.09 x 14.92*
	With option VW3A9708	595 x 1580 x 380	*23.43 x 62.2 x 14.96*



dv/dt filters

Overall dimensions

Reference	W x H x D	
	mm	*in.*
VW3A5301	295 x 535 x 215	*11.61 x 21.06 x 8.47*
VW3A5302	295 x 535 x 215	*11.61 x 21.06 x 8.47*
VW3A5303	295 x 535 x 215	*11.61 x 21.06 x 8.47*
VW3A5304	295 x 560 x 245	*11.61 x 22.05 x 9.65*
VW3A5305	295 x 610 x 245	*11.61 x 24.02 x 9.65*
VW3A5306	380 x 235 x 350	*14.96 x 9.25 x 13.78*
VW3A5307	360 x 420 x 270	*14.17 x 16.54 x 10.63*
VW3A5106	245 x 250 x 200	*9.65 x 9.84 x 7.87*
VW3A5107	320 x 250 x 220	*12.60 x 9.84 x 8.66*

Passive filters

Overall dimensions

Reference	W x H x D	
	mm	*in.*
VW3A46098A	160 x 360 x 185	*6.3 x 14.17 x 7.28*
VW3A46099A	160 x 360 x 185	*6.3 x 14.17 x 7.28*
VW3A46100A	180 x 425 x 206	*7.09 x 16.73 x 8.11*
VW3A46101A	185 x 390 x 190	*7.28 x 15.35 x 7.48*
VW3A46102A	185 x 390 x 190	*7.28 x 15.35 x 7.48*
VW3A46103A	185 x 390 x 190	*7.28 x 15.35 x 7.48*
VW3A46104A	250 x 455 x 230	*9.84 x 17.91 x 9.06*
VW3A46105A	250 x 455 x 230	*9.84 x 17.91 x 9.06*
VW3A46106A	250 x 455 x 230	*9.84 x 17.91 x 9.06*
VW3A46107A	250 x 455 x 230	*9.84 x 17.91 x 9.06*
VW3A46108A	280 x 520 x 248	*11.02 x 20.47 x 9.76*
VW3A46109A	280 x 520 x 248	*11.02 x 20.47 x 9.76*
VW3A46110A	280 x 520 x 248	*11.02 x 20.47 x 9.76*
VW3A46111A	280 x 520 x 248	*11.02 x 20.47 x 9.76*
VW3A46112A	450 x 700 x 385	*17.72 x 27.56 x 15.16*
VW3A46113A	450 x 700 x 385	*17.72 x 27.56 x 15.16*
VW3A46114A	450 x 700 x 385	*17.72 x 27.56 x 15.16*
VW3A46115A	450 x 700 x 385	*17.72 x 27.56 x 15.16*
VW3A46116A	450 x 700 x 385	*17.72 x 27.56 x 15.16*
VW3A46118A	650 x 505 x 1,120	*25.59 x 19.88 x 44.09*
VW3A46119A	650 x 505 x 1,120	*25.59 x 19.88 x 44.09*

Product reference index

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