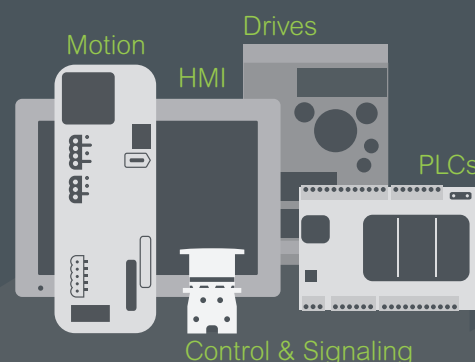




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Easy Altivar 610

Variable speed drives

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

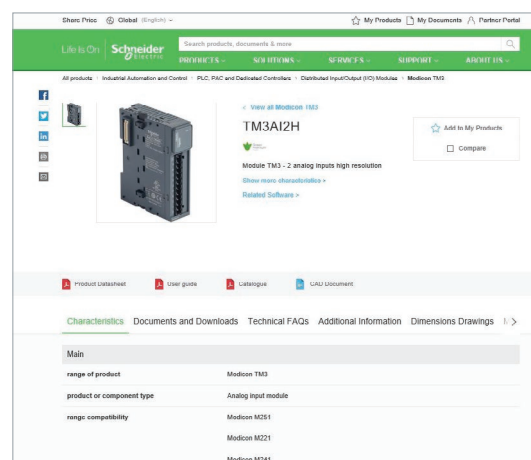
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References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

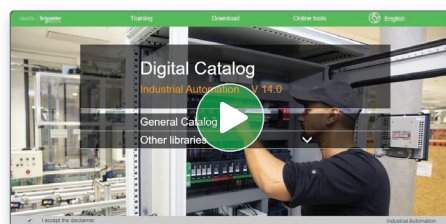
Input range	Output range	Resolution	Input terminal block (T)	Reference	Weight (kg)
2 voltage/current inputs	-15...+15 VDC 0...+10 VDC 0...20 mA A, 20 mA	16 000 01 16 000 02 16 000 03	0580.2 0580.2 0580.2	TM3A22H TM3A22H TM3A22H	0.150 0.150 0.150
4 voltage/current inputs	-15...+15 VDC 0...+10 VDC 0...20 mA A, 20 mA	12 000 01 11 000 01 11 000 02	0580.2 0580.2 0580.2	TM3A42H TM3A42H TM3A42H	0.200 0.200 0.200
4 voltage/current or temperature inputs (T)	Thermocouples (T) J, K, R, S, E, T, N, B, C Temperature inputs (PT100, PT1000, RTD, ITC, ITC1000) 0...+15 VDC 0...20 mA A, 20 mA	16 000 01 16 000 02 16 000 03	0580.2 0580.2 0580.2	TM3A42H TM3A42H TM3A42H	0.200 0.200 0.200
4 differential temperature inputs	Thermocouples (T) J, K, R, S, E, T, N, B, C Temperature inputs (PT100, PT1000, RTD, ITC, ITC1000) 0...+15 VDC 0...20 mA A, 20 mA	16 000 01 16 000 02 16 000 03	0580.2 0580.2 0580.2	TM3A42H TM3A42H TM3A42H	0.200 0.200 0.200
4 voltage/current inputs	-15...+15 VDC	12 000 01	0580.2	TM3A42H	0.200



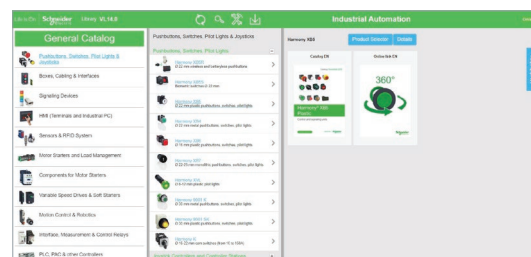
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

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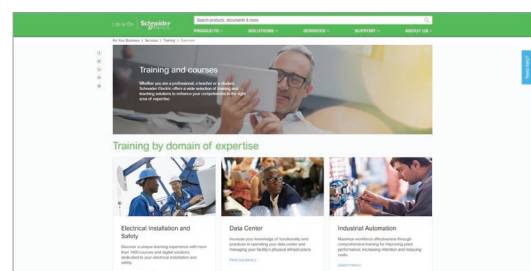


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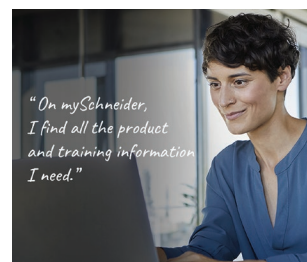
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Easy Altivar 610 variable speed drives

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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

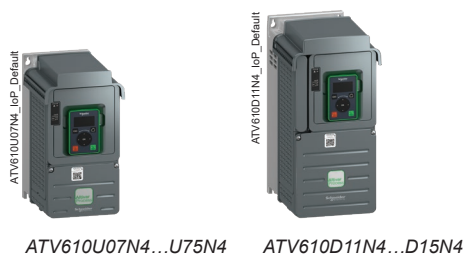
Pump and fan applications in the domains

Process & machine management

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

Building management

- Fan
- Circulating pump



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...3,000 m/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

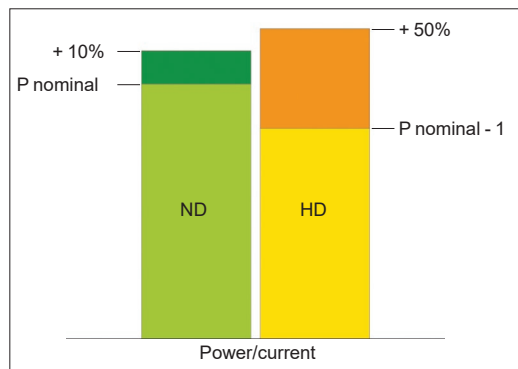
Easy Altivar 610 drives are ergonomically designed to adapt to any type of installation:

- 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

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.

Integrated functions

Integrated DC chokes

Equal or 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.

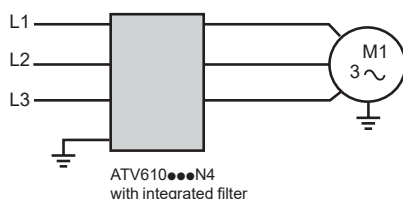
Maximum length of shielded cable (1) according to IEC/EN 61800-3, category C3: 50 m/164 ft (for all ratings).

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.



Easy Altivar 610 drive with integrated EMC filter

Variable speed drives

Easy Altivar 610

Configuration and runtime tools, accessories, and options

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](#)).



Extended I/O module

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).



ATV610C11N4



ATV610C22N4

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			403	341	272	50	427	470	ATV610C22N4 (5)	173/381	
HD 160 250			301	260	207.2	50	302	453			
ND 250 400			454	383	305	50	481	529	ATV610C25N4 (5)	173/381	
HD 200 300			369	314	250.2	50	370	555			
ND 315 500			571	480	382.8	50	616	678	ATV610C31N4 (5)	180/397	
HD 250 400			460	391	311.4	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](#)

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](#)

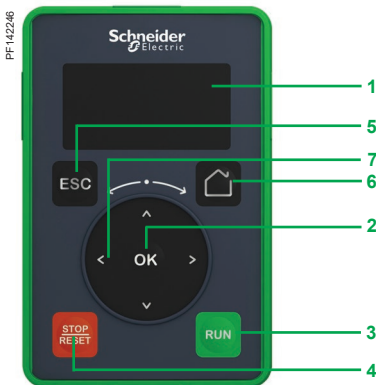


VW3A9708

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



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



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

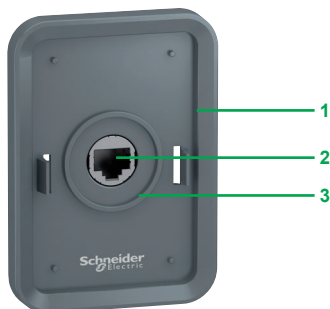
The front of the display terminal comprises:

- 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

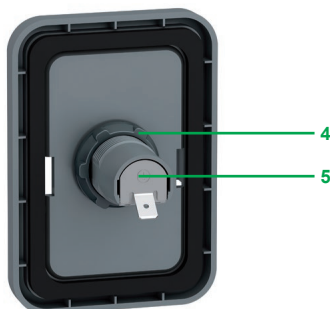
Description	Reference	Weight kg/ lb
Plain text display terminal	VW3A1113	0.200/ 0.441

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.

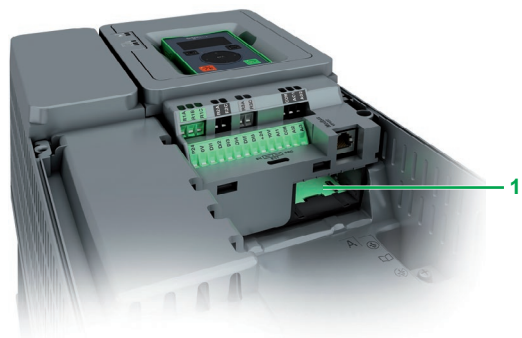
Drilling a hole with a standard Ø 22 mm tool, as used for a pushbutton, allows the unit to be mounted without needing a cut-out in the enclosure (Ø 22.5 mm/Ø 0.89 in. drill hole).

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.

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 $\overline{\text{DC}}$ 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

PF140381C



Extended I/O module VW3A3203

PF130897C



Extended relay module VW3A3204

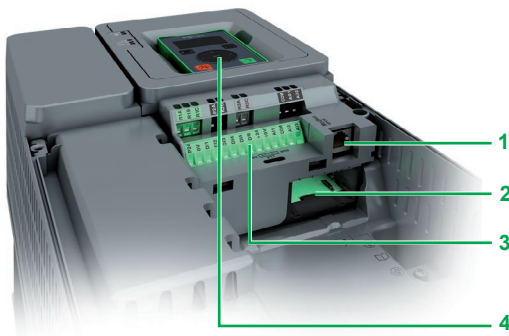
References

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.

PF 142250



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 $\overline{\text{---}}$ 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](#).



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

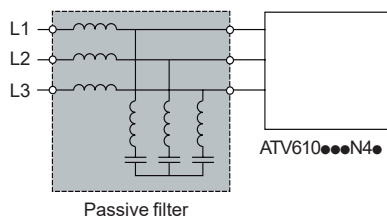
Easy Altivar 610 drives offer a high degree of interfacing flexibility with the possibility of assigning, by configuration, the different control sources (I/O, communication networks, and HMI terminal) to control functions in order to meet the requirements of complex applications.

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.



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 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	10.2/ 22.5	LC1DFK●●
ATV610U75N4●	14.7	VW3A46103A	1	IP20	14.7/ 32.4	LC1DFK●●
ATV610D11N4●	22	VW3A46104A	1	IP20	18/ 39.7	LC1DFK●●
ATV610D15N4●	29.4	VW3A46105A	1	IP20	19.8/ 43.7	LC1DFK●●
ATV610D18N4●	37.2	VW3A46106A	1	IP20	23.4/ 51.6	LC1DGK●●
ATV610D22N4●	41.9	VW3A46107A	1	IP20	28.2/ 62.2	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	46/ 101.4	LC1DPK●●
ATV610D55N4●	111.5	VW3A46111A	1	IP20	49/ 108	LC1DTK●●
ATV610D75N4●	147.9	VW3A46112A	1	IP20	86/ 189.6	LC1DTK●●
ATV610D90N4●	177.8	VW3A46113A	1	IP20	90.5/ 199.5	LC1DWK●●
ATV610C11N4●	201	VW3A46114A	1	IP20	98.5/ 217.2	LC1DWK●●
ATV610C13N4●	237	VW3A46115A	1	IP20	111/ 244.7	LC1DWK●●
ATV610C16N4●	284	VW3A46116A	1	IP20	122/ 269	LC1G115●●●●
ATV610C22N4	403	VW3A46118A	1	IP20	240/ 529.1	LC1G185●●●●
ATV610C25N4	454					LC1G265●●●●
ATV610C31N4	570.9	VW3A46119A	1	IP00	270/ 595.2	LC1G330●●●●

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

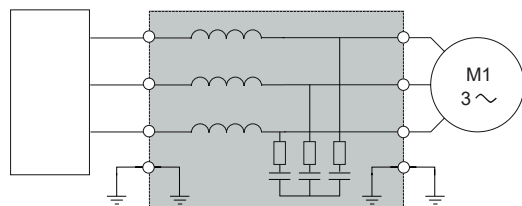


Passive filter VW3A46106A

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●	150 m/492 ft	200 m/656 ft
ATV610C22N4●...C31N4●		



ATV610●●●N4● dv/dt filter

Easy Altivar 610 drive with dv/dt filter

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.



+



+



Applications

Circuit breaker/contactors/drive combinations help to ensure continuity of service in an installation. The type of circuit breaker/contactors 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 Global reference	Magnetic protection rating	Ics (1)	Irm	Line contactor reference (2)
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 Volts ~	Control voltage code			
LC1D09...LC1D80	50/60 Hz	380	415	440	
		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
		–	EHEA EHEN	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](#).

Coordination table between drives and fuses

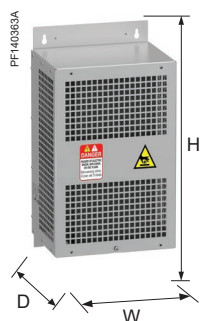
Variable speed drives				Semi-conductor fuses		
Line current		Isc	Reference	Power	Nominal current	Type
380 V	460 V					
		kA		kW	A	
3.1	2.6	5	ATV610U07N4●	0.75	8	gR
5.7	4.8	5	ATV610U15N4●	1.5	10	gR
7.8	6.5	5	ATV610U22N4●	2.2	12	gR
10.1	8.4	5	ATV610U30N4●	3	20	gR
8.8	7.9	5	ATV610U40N4●	4	16	gR
11.6	10.5	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
201	175.7	50	ATV610C11N4●	110	315	aR
237	203.8	50	ATV610C13N4●	132	350	aR
284	249.5	50	ATV610C16N4●	160	400	aR
403	341	50	ATV610C22N4●	220	630	aR
454	383	50	ATV610C25N4●	250	700	aR
571	480.5	50	ATV610C31N4●	315	900	aR



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 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
ATV610C31N4	595 x 1196 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 580 x 248	11.02 x 22.80 x 9.76
VW3A46111A	280 x 580 x 248	11.02 x 22.80 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 1,120 x 505	25.59 x 44.09 x 19.88
VW3A46119A	650 x 1,120 x 505	25.59 x 44.09 x 19.88

A					
ATV610C11N4	7	ATV610U15N4	6	LC1D80Q7	17
	19		19	LC1D80R7	17
ATV610C11N4Z	8	ATV610U15N4Z	8	LC1DFKB7	14
	20		20	LC1DFKF7	14
ATV610C13N4	7	ATV610U22N4	6	LC1DFKM7	14
	19		19	LC1DFKP7	14
ATV610C13N4Z	8	ATV610U22N4Z	8	LC1DFKU7	14
	20		20	LC1DFKV7	14
ATV610C16N4	7	ATV610U30N4	6	LC1DGKF7	14
	19		19	LC1DGKM7	14
ATV610C16N4Z	8	ATV610U30N4Z	8	LC1DGKP7	14
	20		20	LC1DGKU7	14
ATV610C22N4	7	ATV610U40N4	6	LC1DMKB7	14
	19		19	LC1DMKF7	14
ATV610C25N4	7	ATV610U40N4Z	8	LC1DMKG7	14
	19		20	LC1DMKM7	14
ATV610C31N4	7	ATV610U55N4	6	LC1DMKN7	14
	19		19	LC1DMKP7	14
ATV610D11N4	6	ATV610U55N4Z	8	LC1DMKU7	14
	19		20	LC1DMKV7	14
ATV610D11N4Z	8	ATV610U75N4	6	LC1DPKF7	14
	20		19	LC1DPKM7	14
ATV610D15N4	6	ATV610U75N4Z	8	LC1DPKP7	14
	19		20	LC1DPKU7	14
ATV610D15N4Z	8	G		LC1DPKV7	14
	20	GV2L08	17	LC1DTKF7	14
ATV610D18N4	6	GV2L10	17	LC1DTKM7	14
	19	GV2L14	17	LC1DTKP7	14
ATV610D18N4Z	8	GV2L16	17	LC1DTKV7	14
	20	GV2L20	17	LC1DWBK7C	14
ATV610D22N4	6	GV2L22	17	LC1DWF7C	14
	19	GV3L32	17	LC1DWM7C	14
ATV610D22N4Z	8	GV3L40	17	LC1DWKQ7C	14
	20	GV3L50	17	LC1G115BEEA	17
ATV610D30N4	6	GV3L65	17	LC1G115EHEA	17
	19	GV4L115B	17	LC1G115EHEN	17
ATV610D30N4Z	8	GV4L115N	17	LC1G115KUEN	17
	20	GV4L80B	17	LC1G115LSEA	17
ATV610D37N4	6	GV4L80N	17	LC1G115LSEN	17
	19	GV4L80S	17	LC1G150BEEA	17
ATV610D37N4Z	8	L		LC1G150EHEA	17
	20	LC1D09N7	17	LC1G150EHEN	17
ATV610D45N4	7	LC1D09Q7	17	LC1G150KUEN	17
	19	LC1D09R7	17	LC1G150LSEA	17
ATV610D45N4Z	8	LC1D25N7	17	LC1G150LSEN	17
	20	LC1D25Q7	17	LC1G185BEEA	17
ATV610D55N4	7	LC1D25R7	17	LC1G185EHEA	17
	19	LC1D32N7	17	LC1G185EHEN	17
ATV610D55N4Z	8	LC1D32Q7	17	LC1G185KUEN	17
	20	LC1D32R7	17	LC1G185LSEA	17
ATV610D75N4	7	LC1D40AN7	17	LC1G185LSEN	17
	19	LC1D40AQ7	17	LC1G225BEEA	17
ATV610D75N4Z	8	LC1D40AR7	17	LC1G225EHEA	17
	20	LC1D50AN7	17	LC1G225EHEN	17
ATV610D90N4	7	LC1D50AQ7	17	LC1G225KUEN	17
	19	LC1D50AR7	17	LC1G225LSEA	17
ATV610D90N4Z	8	LC1D65AN7	17	LC1G225LSEN	17
	20	LC1D65AQ7	17	LC1G265BEEA	17
ATV610U07N4	6	LC1D65AR7	17	LC1G265EHEA	17
	19	LC1D80N5	17	LC1G265EHEN	17
ATV610U07N4Z	8	LC1D80N7	17	LC1G265KUEN	17
	20	LC1D80Q5	17	LC1G265LSEA	17
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				LC1G330EHEN	17
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				LC1G330LSEA	17
				LC1G330LSEN	17
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				LC1G400EHEA	17
				LC1G400EHEN	17
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				LC1G400LSEA	17
				LC1G400LSEN	17
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				LC1G500EHEA	17
				LC1G500EHEN	17
				LC1G500KUEN	17
				LC1G500LSEA	17
				LC1G500LSEN	17
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				LC1G630EHEN	17
				LC1G630KUEN	17
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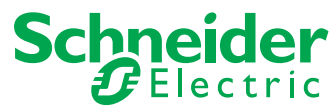
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Head Office
35, rue Joseph Monier - CS 30323
F-92500 Rueil-Malmaison Cedex
France

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