



Altivar ATV610QC

Variable speed drives

Drives for pumps and fans from 0.75 to
400 kW/1 to 600 HP

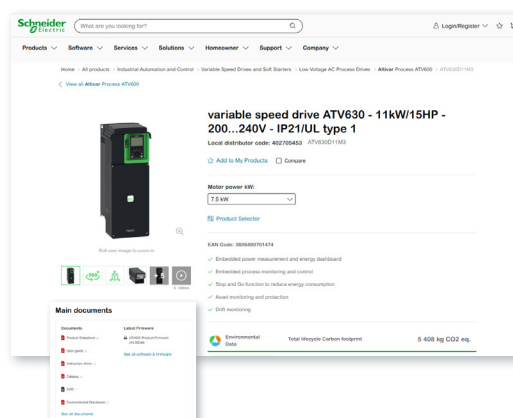


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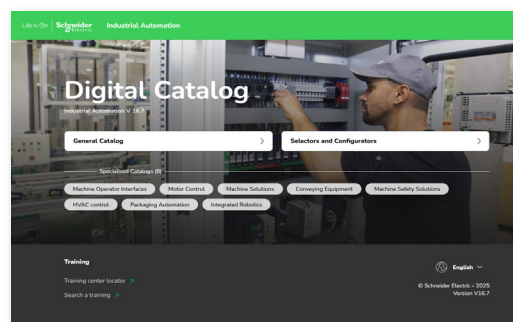
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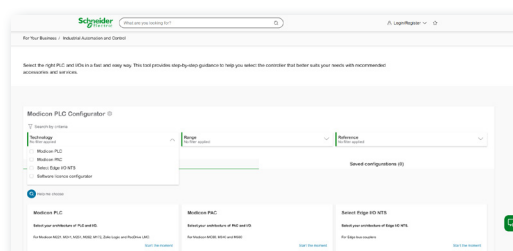
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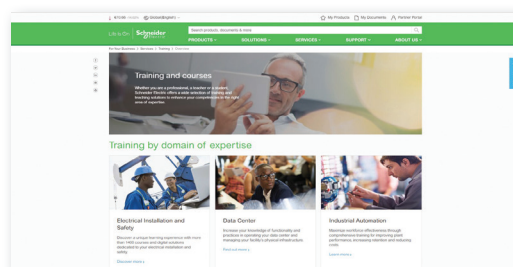
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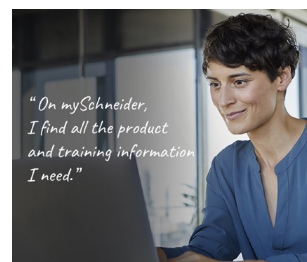
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Altivar

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Water & wastewater



Oil & gas



Circulating pumps for building management

Introduction to the offer: applications

The Altivar ATV610QC drive is a frequency inverter for three-phase asynchronous motors and synchronous motors (up to 400 kW/600 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

Building management

- Fan
- Circulating pump



ATV610U07N4QC...U22N4QC



ATV610U30N4QC...U55N4QC



ATV610U75N4QC...D11N4QC



ATV610D15N4QC



ATV610D18N4QC...D22N4QC



ATV610D30N4QC...D45N4QC



ATV610D55N4QC...D90N4QC



ATV610C11N4QC...C16N4QC

Presentation of the offer

The Altivar ATV610QC offer covers motor power ratings from 0.75 to 400 kW/ 1 to 600 HP for three-phase voltages between 380 and 460 V. It is designed for synchronous and asynchronous motors.

Altivar ATV610QC drives can help improve equipment performance and reduce operating costs by optimizing energy consumption and user comfort.

Altivar 610QC 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.

Key improvement

- Compact
 - Book design for 0.75...22kW/1...30 HP
 - Compact design for 30...400kW/ 40...600 HP
- Synchronous motor and asynchronous motor
- New keypad
- Robustness
 - New gen IGBT
 - Completely new design, validated under harsh conditions
- More reliable and convenient Modbus field network port
 - Isolated Modbus RS485 port, effectively suppresses common-mode noise
 - Modbus ports in terminal form, 0.75~22kW integrated Modbus RJ45 and terminal connection forms
- THDi≤48% for all frame size
- Various options

Robust design

Altivar ATV610QC drives are robust products designed to adapt to various levels of thermal stress and to harsh environments.

- Adopts a new generation IGBT, which enhanced the product robustness in humid environments, and provide more precise IGBT control and protection
- Operating temperature (for continuous monitoring):
 - For ATV610U07N4QC...D22N4QC: -15...+60 °C/+5...+140 °F, 40...60 °C/104...140 °F with derating
 - For ATV610D30N4QC...C16N4QC: -15...+60 °C/+5...+140 °F, 45...60 °C/113...140 °F with derating
 - For ATV610C22N4QC...C40N4QC: -10...+60 °C/14...+140 °F, 40...60 °C/104...140 °F with derating
- Storage and transport temperature:
 - For ATV610U07N4QC...C16N4QC: -40...+70 °C/-40...+158 °F
 - For ATV610U07N4QC...C16N4QC: -25...+70 °C/-13...+158 °F
- Operating altitude:
 - 0...1,000 m/0...3,281 ft without derating
 - 1,000...3,000m/3,281...9,842 ft, derate the nominal current of the drive by 1% for each additional 100 m
- Printed circuit boards with enhanced coating
- ATV610U07N4QC...C16N4QC meet chemical class 3C3 and dust pollution resistance class 3S3 conforming to IEC/EN 60721
- ATV610C22N4QC...C40N4QC meet chemical class 3C2 and mechanical class 3S2 conforming to IEC/EN 60721
- Protection to suit requirements:
 - IP20 for mounting in enclosure
 - EMC wiring kits are available for ATV610U07N4QC...D22N4QC that can improve the EMC grounding performance and finger protection
 - IP21 kits are available for ATV610C11N4QC...C40N4QC



ATV610C22N4QC...C25N4QC



ATV610C31N4QC



ATV610C35N4QC...C40N4QC



Presentation of the offer (continued)

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.

Altivar ATV610QC has integrated a category C3 EMC filter (see [page 5](#)).

Installation and maintenance

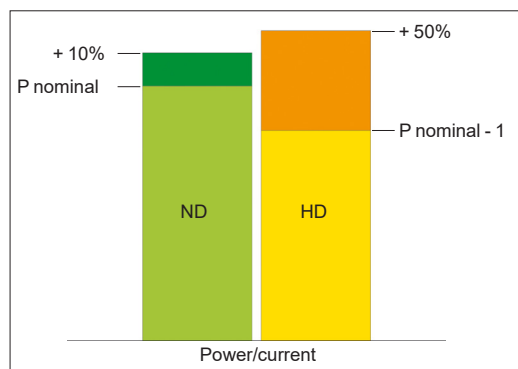
Altivar ATV610QC drives are ergonomically designed to adapt to any type of installation:

- Products, systems, or integrated in iMCC
- The similar parameter menu as ATV610 drives
- Asynchronous motors and synchronous motors 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

Altivar ATV610QC 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



Normal duty and Heavy duty modes

Normal duty and Heavy duty operating modes

The Altivar ATV610QC offer covers motor power ratings from 0.75...400 kW/ 1...600 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...400 kW 1...600 HP	IP20/IP00	ATV610U07N4QC...C40N4QC

Altivar ATV610QC 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 Altivar ATV610QC range suitable for use in variable and constant torque applications, such as pump, fan, and compressor.

Integrated functions

Integrated DC chokes

Altivar ATV610QC variable speed drives are supplied with an integrated DC choke from 0.75...400 kW/1...600 HP to reduce harmonic distortion.

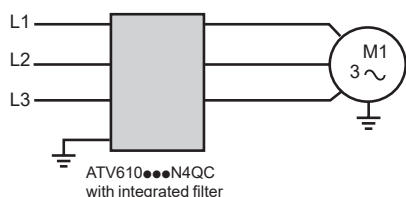
Integrated EMC filters

Altivar ATV610QC 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.

(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.



Altivar ATV610QC drive with integrated EMC filter

Variable speed drives

Altivar ATV610QC

Integrated functions, configuration and runtime tools, accessories and options

Integrated functions (continued)

Communication protocol

Altivar 610QC integrates Modbus serial link communication protocols as standard, and not support adding any communication modules.

- For ATV610U07N4QC...D22N4QC:
It integrated a Modbus RTU RJ45 port and open style terminals. Modbus RTU RJ45 port and open style terminals are physically connected and share the same Modbus parameter configuration, they can only be used as one slave station on the bus. Customers can choose one of them or use these two ports at the same time.
- For ATV610D30N4QC...C40N4QC:
It integrated a Modbus RTU open style terminals.

Configuration and runtime tools

Altivar ATV610QC drives are not supplied with a keypad, you can order the new designed plain text display terminal with key button (VW3A1117) separately for the drive configuration and monitoring (see [page 10](#)). It can offer the following functions (1):

- 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

Altivar ATV610QC drives are designed to take complementary accessories to increase their functionality.

- New designed plain text display terminal with key button (see [page 10](#)) and the kit for mounting on enclosure door (see [page 11](#))
- EMC wiring kits (see [page 9](#))
- IP21 conformity kit (see [page 9](#))

Options

The following options can be added:

- Passive filters (see [page 13](#))
- Dv/dt filters (see [page 14](#))

Motor starters

Schneider Electric offers combinations of circuit breakers and contactors to be able to use Altivar ATV610QC drives in optimum conditions (see [page 15](#)).

(1) These functions are identical to those of the ATV610...N4 (equipped with keypad VW3A1113) to ensure smooth migration.



Plain text display terminal with key button



Passive filter



ATV610U07N4QC...U22N4QC



ATV610U30N4QC...U55N4QC



ATV610D18N4QC...D22N4QC



ATV610D30N4QC...D45N4QC



ATV610D55N4QC...D90N4QC

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter											
Motor			Power supply to the power section				Altivar ATV610QC				
Nominal power indicated on rating plate			Max. input current (1)		Apparent power	Max. prospective line Isc	Maximum continuous current (2)	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	1.8	1.6	1.3	5	2.2	2.4	ATV610U07N4QC	2/4.4	
HD	0.37	0.5	1	0.9	0.7	5	1.5	2.3			
ND	1.5	2	3.5	3	2.4	5	4	4.4	ATV610U15N4QC	2.1/4.6	
HD	0.75	1	2	1.8	1.4	5	2.2	3.3			
ND	2.2	3	4.9	4.2	3.3	5	5.6	6.2	ATV610U22N4QC	2.2/4.8	
HD	1.5	2	3.6	3.2	2.5	5	4	6			
ND	3	4	6.5	5.6	4.7	5	7.2	7.9	ATV610U30N4QC	3.3/7.3	
HD	2.2	3	5	4.4	3.5	5	5.6	8.4			
ND	4	5	8.5	7.3	5.8	5	9.3	10.2	ATV610U40N4QC	3.5/7.7	
HD	3	4	6.7	5.9	4.7	5	7.2	10.8			
ND	5.5	7.5	11.4	9.8	7.8	5	12.7	14	ATV610U55N4QC	3.8/8.4	
HD	4	5	8.7	7.7	6.1	5	9.3	14			
ND	7.5	10	15.1	13	10.4	22	15.8	17.4	ATV610U75N4QC	5.36/11.79	
HD	5.5	7.5	11.7	10.3	8.2	22	12.7	19.1			
ND	11	15	21.5	18.4	14.7	22	23.5	25.9	ATV610D11N4QC	5.37/11.81	
HD	7.5	10	15.6	13.9	11.1	22	16.5	24.8			
ND	15	20	28.5	24.3	19.4	22	31.7	34.9	ATV610D15N4QC	6.6/14.4	
HD	11	15	21.8	19	15.1	22	23.5	35.3			
ND	18.5	25	35.6	30.3	24.1	22	39.2	43.1	ATV610D18N4QC	9.8/21.6	
HD	15	20	28.8	25	19.9	22	31.7	47.6			
ND	22	30	42.2	36	28.7	22	46.3	50.9	ATV610D22N4QC	9.9/21.8	
HD	18.5	25	36.1	31.1	24.8	22	39.2	58.8			
ND	30	40	62.5	55.8	44.5	22	61.5	67.7	ATV610D30N4QC	25.5/56.1	
HD	22	30	49.7	42.5	33.9	22	46.3	69.5			
ND	37	50	76.6	68.3	54.4	22	74.5	82	ATV610D37N4QC	25.5/56.1	
HD	30	40	65.8	56.8	45.3	22	59.6	89.4			
ND	45	60	92.9	82.7	65.9	22	88	96,8	ATV610D45N4QC	25.5/56.1	
HD	37	50	80.5	69.6	55.4	22	74.5	111,8			
ND	55	75	111.5	99.7	79.5	22	120	132	ATV610D55N4QC	53/116.6	
HD	45	60	95.9	84	66.9	22	88	132			
ND	75	100	147.9	130.2	103.7	22	145	160	ATV610D75N4QC	53/116.6	
HD	55	75	116	101.7	81	22	106	159			
ND	90	125	177.8	159.9	127.4	50	173	190	ATV610D90N4QC	53/116.6	
HD	75	100	155.8	138.1	110	50	145	218			

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

(2) These values are given for a nominal switching frequency of 4 kHz up to **ATV610D45N4QC**, or 2.5 kHz for **ATV610D55N4...** **C40N4QC** for use in continuous operation.

The switching frequency is adjustable from 2...12 kHz up to **ATV610D45N4QC**, or from 2...8 kHz for **ATV610D55N4QC...** **C40N4QC**. 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](#)).

(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 significant overload (up to 150% for 60 s).



ATV610C31N4QC



ATV610C35N4QC...C40N4QC

IP00 three-phase 380...460 V drives with integrated category C3 EMC filter (1)										
Motor			Power supply to the power section				Altivar ATV610QC			
Nominal power indicated on rating plate			Max. input current (2)		Apparent power	Max. prospective line Isc	Maximum continuous current (3)	Maximum transient current for 60 s	Reference	Weight
			380 V	460 V	460 V					
ND: Normal duty (4)										
HD: Heavy duty (5)										
	kW	HP	A	A	kVA	kA	A	A		kg/lb
ND 110	110	150	201	175.7	140	50	211	232	ATV610C11N4QC	85.5/188.1
HD 90	90	125	170	149.1	118.8	50	173	260		
ND 132	132	200	237	203.8	162.4	50	250	275	ATV610C13N4QC	85.5/188.1
HD 110	110	150	201	174.2	138.8	50	211	317		
ND 160	160	250	284	249.5	198.8	50	302	332	ATV610C16N4QC	85.5/188.1
HD 132	132	200	237	205.9	164	50	250	375		
ND 220	220	350	403	341	272	50	427	470	ATV610C22N4QC	173/381
HD 160	160	250	302	260	207.2	50	302	453		
ND 250	250	400	454	383	305	50	481	529	ATV610C25N4QC	173/381
HD 200	200	300	369	314	250.2	50	370	555		
ND 315	315	500	571	480	382.8	50	616	678	ATV610C31N4QC	180/396
HD 250	250	400	460	391	312	50	481	722		
ND 355	355	550	622	523	417	50	660	726	ATV610C35N4QC	196/431
HD 315	315	450	498	422	336	50	550	825		
ND 400	400	600	697	583	465	50	730	803	ATV610C40N4QC	196/431
HD 355	355	500	556	469	374	50	616	924		

(1) You can order an IP21 conformity kit as option See [page 9](#).

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

(3) These values are given for a nominal switching frequency of 2.5 kHz for **ATV610D55N4...C40N4QC** for use in continuous operation.

The switching frequency is adjustable from 2...8 kHz for **ATV610D55N4QC...C40N4QC**. 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](#)).

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

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



IP21 conformity kit VW3A9708



EMC wiring kit VW3A47813



EMC plate VW3A47804

Accessories for mounting of variable speed drives

IP conformity kit

For use with variable speed drives	IP rating	Power		Reference
		kW	HP	
ATV610C11N4QC...C16N4QC	IP21	110...160	150...250	VW3A9704
ATV610C22N4QC...C25N4QC	IP21	220...250	350...400	VW3A9707
ATV610C31N4QC	IP21	315	500	VW3A9708
ATV610C35N4QC...C40N4QC	IP21	355...400	550...600	VW3A9709

EMC wiring kits

For use with variable speed drives	IP rating	Power		Reference
		kW	HP	
ATV610U07N4QC...U22N4QC	IP21 (1)	0.75...2.2	1...3	VW3A47811
ATV610U30N4QC...U55N4QC	IP21 (1)	3.0...5.5	4...7.5	VW3A47812
ATV610U75N4QC...D11N4QC	IP21 (1)	7.5...11	10...15	VW3A47813
ATV610D15N4QC	IP21 (1)	15	20	VW3A47814
ATV610D18N4QC...D22N4QC	IP21 (1)	18.5...22	25...30	VW3A47815
ATV610D30N4QC...D45N4QC	—	30...45	40...60	VW3A47804 (2)
ATV610D55N4QC...D90N4QC	—	55...90	75...125	VW3A47805 (2)

(1) The IP rating applies solely to the EMC wiring kit itself.

(2) It is simply an EMC plate.

Variable speed drives

Altivar ATV610QC

Configuration and runtime tools

Plain text display terminal



Plain text display terminal with key button
mounted on the front of an ATV610U07N4QC drive



Plain text display terminal with key button

Plain text display terminal with key button

Altivar ATV610QC drives are not supplied with a keypad, you can order the new designed plain text display terminal with key button (VW3A1117) separately for the drive configuration and monitoring

The new key button design provides more precise, comprehensive control.

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), which can be used to monitor three parameters at the same time on one screen
- Store and download configurations
- Duplicate the configuration of one powered-up drive on another powered-up drive

Other features:

- New design with key button
- Realtime clock(integrated in ATV610U07N4QC...D22N4QC) providing data acquisition and event time-stamping functions
- 2 lines for setting screen
- 3 lines for monitoring screen
- 10 languages (Chinese simplified, English, French, German, Italian, Spanish, Turkish, Russian, Korean, Chinese traditional)
- 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 LOC/REM button: local-control and remote-control switch button
- 7 ^v<> navigation buttons: increases or decreases the value, goes to the next or previous line

References

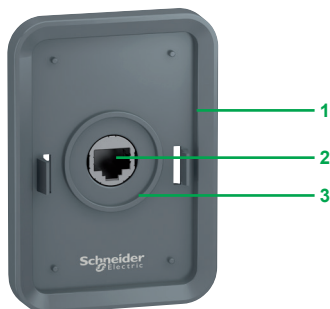
Description	Reference	Weight kg/ lb
Plain text display terminal with key button	VW3A1117	0.07/ 0.16

Variable speed drives

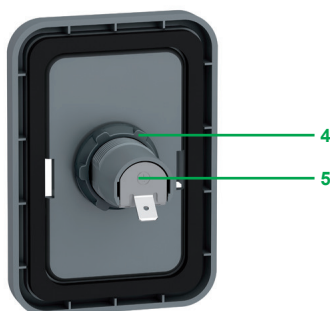
Altivar ATV610QC

Configuration and runtime tools

Door mounting kit for plain text display terminal



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



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

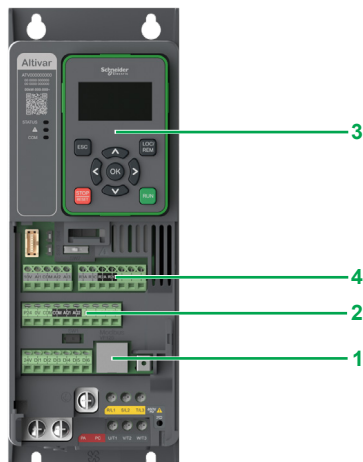
Cordsets should be ordered separately depending on the length required.

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).

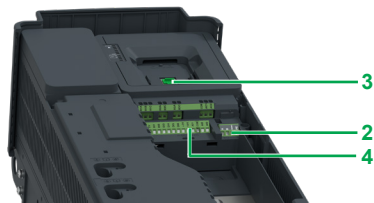
An anti-rotation function is provided that works as follows: when the kit is locked tightly on the panel by the nut, the gasket on the back cannot rotate.

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



ATV610U07N4QC...D22N4QC integrated ports



ATV610D30N4QC...C40N4QC integrated ports

Integrated ports

Presentation

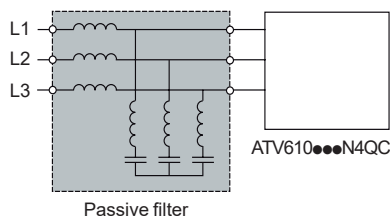
Altivar ATV610QC integrates Modbus serial link communication protocols as standard and doesn't support adding any communication modules or extended IO and Relay modules.

- ATV610U07N4QC...D22N4QC drives are designed with two built-in Modbus RJ45 communication ports and one set of Modbus open style terminals:
 - The Modbus RJ45 port **1** and the open style terminals **2** are dedicated to field network operation for exchanging data with other devices via the Modbus serial link
 - This Modbus RTU RJ45 port and open style terminals are physically connected and share the same Modbus parameter configuration; they can only be used as one slave station in the bus. Customers can choose one of them or use these two ports at the same time
 - For example, we can use the RJ45 port to connect the PLC and use the open style terminals to realize a Modbus daisy-chain connection of multiple VSDs
 - A second Modbus RJ45 dedicated port **3** for the multidrop connection of the following HMIs:
 - the plain text terminal with key button
 - a Harmony industrial HMI terminal
- ATV610D30N4QC...C40N4QC drives are designed with one built-in Modbus RJ45 communication port and one set of Modbus open style terminals:
 - The Modbus open style terminals **2** are dedicated to field network operation for exchanging data with other devices via the Modbus serial link protocol
 - The Modbus RJ45 port **3** for the multidrop connection of the following HMIs:
 - the plain text terminal with key button
 - a Harmony industrial HMI terminal

Altivar ATV610 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** Modbus RJ45 serial port
- 2** Modbus RTU open style terminals
- 3** Modbus RJ45 serial link for HMI (remote plain text terminal, Magelis terminal, etc.)
- 4** Fixed screw terminal blocks for 24 V ~ power supply and integrated I/O



Altivar ATV610QC 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 Altivar ATV610QC drives	Line current value	Passive filter				Capacitor contactor
Reference	(380 V)	Reference	Quantity required per drive	IP degree	Weight	Reference (1)
A						
THDi < 10%						
ATV610U07N4QC	1,8	VW3A46101A	1	IP20	10/22	LC1DFK●●
ATV610U15N4QC	3,5					
ATV610U22N4QC	4,9					
ATV610U30N4QC	6,5					
ATV610U40N4QC	8,5					
ATV610U55N4QC	11,4	VW3A46102A	1	IP20	10.2/22.5	
ATV610U75N4QC	15,1	VW3A46103A	1	IP20	14.7/32.4	
ATV610D11N4QC	21,5	VW3A46104A	1	IP20	18/39.7	
ATV610D15N4QC	29,4	VW3A46105A	1	IP20	19.8/43.7	
ATV610D18N4QC	37,2	VW3A46106A	1	IP20	23.4/51.6	LC1DGK●●
ATV610D22N4QC	41,9	VW3A46107A	1	IP20	28.2/62.2	
ATV610D30N4QC	62,5	VW3A46108A	1	IP20	37/81.6	LC1DMK●●
ATV610D37N4QC	76,6	VW3A46109A	1	IP20	43/94.8	
ATV610D45N4QC	92,9	VW3A46110A	1	IP20	46/101.4	LC1DPK●●
ATV610D55N4QC	111,5	VW3A46111A	1	IP20	49/108	LC1DTK●●
ATV610D75N4QC	147,9	VW3A46112A	1	IP20	86/189.6	
ATV610D90N4QC	177,8	VW3A46113A	1	IP20	90.5/199.5	LC1DWK●●
ATV610C11N4QC	201	VW3A46114A	1	IP20	98.5/217.2	
ATV610C13N4QC	237	VW3A46115A	1	IP20	111/244.7	
ATV610C16N4QC	284	VW3A46116A	1	IP20	122/269	LC1G115●●●●
ATV610C22N4QC	403	VW3A46118A	1	IP00	240/529.1	LC1G185●●●●
ATV610C25N4QC	454					LC1G265●●●●
ATV610C31N4QC	571	VW3A46119A	1	IP00	270/595.2	LC1G330●●●●
ATV610C35N4QC	622	VW3A46120A	1	IP00	292/642.4	LC1G400●●●●
ATV610C40N4QC	697	VW3A46121A	1	IP00	362/796.4	LC1G500●●●●

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

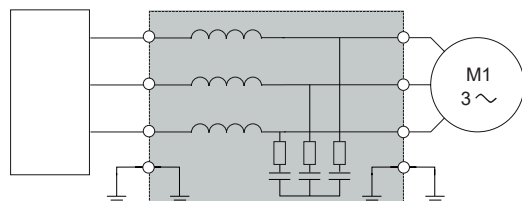


Passive filter VW3A46106A

Presentation

Altivar ATV610QC drives maximum motor cable lengths without dv/dt filters

Altivar ATV610QC drive	Maximum cable length	
	Shielded cables	Unshielded cables
ATV610U07N4QC...U55N4QC	100 m/328 ft	150 m/492 ft
ATV610U75N4QC...D45N4QC	100 m/328 ft	200 m/656 ft
ATV610D55N4QC...C40N4QC	150 m/492 ft	200 m/656 ft



ATV610...N4QC dv/dt filter

Altivar ATV610 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							
ATV610U07N4QC...U22N4QC	4	150/492	200/656	20	6	VW3A5301	11/24
ATV610U30N4QC...U55N4QC	4	150/492	200/656	20	15	VW3A5302	12/26
ATV610U75N4QC...D11N4QC	4	250/820	300/984	20	25	VW3A5303	12/26
ATV610D15N4QC...D22N4QC	4	250/820	300/984	20	50	VW3A5304	18/40
ATV610D30N4QC...D45N4QC	4	250/820	300/984	20	95	VW3A5305	19/42
ATV610D55N4QC...D90N4QC	2.5	300/984	350/1,148	00	180	VW3A5306	22/49
ATV610C11N4QC...C16N4QC	2.5	300/984	350/1,148	00	305	VW3A5307	40/88
ATV610C22N4QC	2.5	250/820	350/1,148	00	481	VW3A5106	58/128
ATV610C25N4QC...C40N4QC	2.5	200/656	350/1,148	00	759	VW3A5107	93/205

(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

+



LC1G115

+



ATV610D55N4QC

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				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	ATV610U07N4QC	GV2L07	2,5	5	39	LC1D09●●
1,5	2	ATV610U15N4QC	GV2L08	4	5	74	
2,2	3	ATV610U22N4QC	GV2L10	6,3	5	91	
3	4	ATV610U30N4QC					
4	5	ATV610U40N4QC	GV2L14	10	5	149	
5,5	7,5	ATV610U55N4QC	GV2L16	14	5	253,4	LC1D12●●
7,5	10	ATV610U75N4QC	GV2L20	18	22	341	LC1D18●●
11	15	ATV610D11N4QC	GV2L22	25	22	388,3	LC1D25●●
15	20	ATV610D15N4QC	GV3L32	32	22	448	LC1D32●●
18,5	25	ATV610D18N4QC	GV3L40	40	22	560	LC1D40A●●
22	30	ATV610D22N4QC	GV3L50	50	22	700	LC1D50A●●
30	40	ATV610D30N4QC	GV3L65	65	22	910	LC1D65A●●
37	50	ATV610D37N4QC	GV4L80●	80	22	480 (3)	LC1D80●●
45	60	ATV610D45N4QC	GV4L115●	115	22	690 (3)	LC1G115●●●●
55	75	ATV610D55N4QC	NSX160●●MA150	150	22	1350 (3)	
75	100	ATV610D75N4QC					LC1G150●●●●
90	125	ATV610D90N4QC	NSX250●●MA220	220	50	1980 (3)	LC1G225●●●●
110	150	ATV610C11N4QC					
132	200	ATV610C13N4QC	NSX400.Mic 1.3M 320A	320	50	4800	LC1G265●●●●
160	250	ATV610C16N4QC					LC1G330●●●●
220	350	ATV610C22N4QC	NSX630.Mic 1.3M 500A	500	50	6500	LC1G400●●●●
250	400	ATV610C25N4QC					LC1G500●●●●
315	500	ATV610C31N4QC	NS800 Micrologic 2 or 5	800	50	1600 (3)	LC1G630●●●●
355	550	ATV610C35N4QC					
400	600	ATV610C40N4QC					

(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			
		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	KUEA	LSEA
			EHEN	KUEN	LSEN
LC1G630		—	EHEA	KUEN	LSEA
			EHEN		LSEN

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

(3) It can be adjusted; the value listed is the minimum. For more informations, please contact our [Customer Care Center](#).

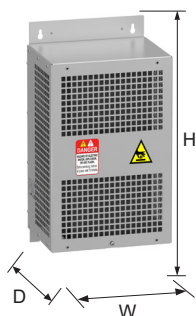
Coordination table between drives and fuses						
Variable speed drives				Semi-conductor fuses		
Line current		Isc	Reference	Power	Nominal current	Type
380 V	460 V					
		kA		kW	A	
1,8	1,6	5	ATV610U07N4QC	0,75	4	gR
3,5	3	5	ATV610U15N4QC	1,5	8	gR
4,9	4,2	5	ATV610U22N4QC	2,2	10	gR
6,5	5,6	5	ATV610U30N4QC	3	12,5	gR
8,5	7,3	5	ATV610U40N4QC	4	16	gR
11,4	9,8	5	ATV610U55N4QC	5,5	20	gR
15,1	13	22	ATV610U75N4QC	7,5	25	gR
21,5	18,4	22	ATV610D11N4QC	11	40	gR
29,4	26	22	ATV610D15N4QC	15	50	gR
37,2	33,5	22	ATV610D18N4QC	18,5	63	gR
41,9	36,2	22	ATV610D22N4QC	22	80	gR
62,5	55,8	22	ATV610D30N4QC	30	100	gR
76,6	68,3	22	ATV610D37N4QC	37	125	gR
92,9	82,7	22	ATV610D45N4QC	45	160	gR
111,5	99,7	22	ATV610D55N4QC	55	160	gR
147,9	130,2	22	ATV610D75N4QC	75	250	gR
177,8	159,9	50	ATV610D90N4QC	90	250	gR
201	175,7	50	ATV610C11N4QC	110	315	aR
237	203,8	50	ATV610C13N4QC	132	350	aR
284	249,5	50	ATV610C16N4QC	160	400	aR
403	341	50	ATV610C22N4QC	220	630	aR
454	383	50	ATV610C25N4QC	250	700	aR
571	480	50	ATV610C31N4QC	315	900	aR
622	523	50	ATV610C35N4QC	355	1000	aR
697	583	50	ATV610C40N4QC	400	1000	aR



Variable speed drives 380...460 V

Overall dimensions

Reference	W x H x D	
	mm	in.
ATV610U07N4QC	86.5 x 240 x 182	3.41 x 9.45 x 7.17
ATV610U15N4QC	86.5 x 240 x 182	3.41 x 9.45 x 7.17
ATV610U22N4QC	86.5 x 240 x 182	3.41 x 9.45 x 7.17
ATV610U30N4QC	109 x 295.5 x 212	4.29 x 11.63 x 8.35
ATV610U40N4QC	109 x 295.5 x 212	4.29 x 11.63 x 8.35
ATV610U55N4QC	109 x 295.5 x 212	4.29 x 11.63 x 8.35
ATV610U75N4QC	122 x 320 x 217	4.8 x 12.6 x 8.54
ATV610D11N4QC	122 x 320 x 217	4.8 x 12.6 x 8.54
ATV610D15N4QC	132 x 345 x 241.87	5.2 x 13.58 x 9.52
ATV610D18N4QC	140 x 415 x 275	5.51 x 16.34 x 10.83
ATV610D22N4QC	140 x 415 x 275	5.51 x 16.34 x 10.83
ATV610D30N4QC	226 x 613 x 271	8.9 x 24.13 x 10.67
ATV610D37N4QC	226 x 613 x 271	8.9 x 24.13 x 10.67
ATV610D45N4QC	226 x 613 x 271	8.9 x 24.13 x 10.67
ATV610D55N4QC	290 x 762 x 323	11.42 x 30 x 12.72
ATV610D75N4QC	290 x 762 x 323	11.42 x 30 x 12.72
ATV610D90N4QC	290 x 762 x 323	11.42 x 30 x 12.72
ATV610C11N4QC	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
ATV610C13N4QC	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
ATV610C16N4QC	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
ATV610C22N4QC	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
ATV610C25N4QC	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
ATV610C31N4QC	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
ATV610C35N4QC	587 x 1240 x 385.4	23.13 x 48.86 x 15.17
With option VW3A9709	587 x 1624.7 x 385.4	23.13 x 63.69 x 15.17
ATV610C40N4QC	587 x 1240 x 385.4	23.13 x 48.86 x 15.17
With option VW3A9709	587 x 1624.7 x 385.4	23.13 x 63.69 x 15.17



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.
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
VW3A46120A	650 x 1,120 x 505	25.59 x 44.09 x 19.88
VW3A46121A	680 x 1,320 x 557	26.79 x 52.01 x 21.95

Dedicated service offers for your installed base



Services offer by Schneider Electric

We offer a comprehensive suite of services tailored for industrial automation systems—including process control systems, variable speed drives, HMIs, turbomachinery control systems, machine elements, and more.

Our service portfolio is designed to help you maximize the performance and lifespan of your systems, enhance operational efficiency, and reduce your environmental impact.

For a detailed summary of our service offerings and capabilities, please refer to our services web page: [Industrial automation services](#)



Consult and Design

Our **EcoConsult Lifecycle Audit** service leverages the power of IA³ (Industrial Automation Audit & Assessment) tools, applied by a team of experts who understand your operations. The result: clear, actionable recommendations and a tailored improvement plan.

Through our consulting services, we deliver:

- > **Inventory Mapping** - A unified, comprehensive view of all automation assets on site.
- > **Lifecycle Assessments** - Evaluate the current state and future viability of your equipment.
- > **Spare Parts Assessments** - Identify gaps and optimize your spare parts strategy.
- > **Version Assessments** - Detect potential downtime risks due to outdated firmware or software.
- > **Criticality Review** - Prioritize assets based on their impact on your operations.

For more information, visit our [EcoConsult](#) web page, select your country and discover more.



Implement and Install

With our Implement and Install services we can help you:

- Minimize start-up time
- Reduce the risk of unplanned downtime
- Help ensure that equipment performs as designed
- Reduce lifecycle costs with an installation that complies with Schneider Electric requirements and avoids warranty issues

Our **Extended Warranty** options can help you control your maintenance costs. Schneider Electric will provide a replacement component or repair the product on site during a period of one or three years more than the standard warranty, in all conditions covered by the extended warranty.



For more information, visit our [Extended Warranty](#) web page.

Our **Start-up** service is the first step in maintenance and optimal operational performance for drives rated up to 90 kW and the entire soft starters range. Our comprehensive review checks up to 100 parameters and is especially designed for drives and soft starters in simple applications.

Action		Drive start-up		
		Remote	On premise	
Support	FSR/CCC support level	Advanced	Advanced	Expert
	Maximum support defined time	2H	4H	8H
	Support type	Online	Local	Local
	Customer investment cost	\$	\$\$	\$\$\$
	Applicable drive power (kW)	Up to 90 kW	Up to 90 kW	Over 90 kW
Reference	Commercial reference	SRVSTRTUPVSDREM	SRVSTRTUPVSDADV	SRVSTRTUPVSDEXP
Drive measurement	Voltage input/output, DC bus, FAT report	■	■	■
Drive installation/inspection/validation	Wiring, module assembly, cooling, rotation direction, communication	■	■	■
Basic settings	Motor nameplate, simple start, commands, save/restore parameters	■	■	■
Generic functions	Basic functions (speed limits, ramps, stop, PID, torque limit)	■	■	■
Dedicated functions	Breaking sequence, motor control types, hoisting functions, fan control, conveyor	■	■	■
Load application & Others	With or without load and communication	■	■	■
Final report	Documented final report	■	■	■
Installation check	■ SE FSR measures and validates installation	■ Customer reports installation validation and FSR conducts a functional visual inspection of the drive and peripherals installation		■ Not applicable

Dedicated service offers for your installed base



Operate and Manage

Our **Preventive Maintenance** service performs predetermined maintenance actions according to a product-specific schedule. The work is carried out by certified technical experts following Schneider Electric instructions. This service minimizes unplanned downtime and extends your equipment lifetime.

Our **Remote Technical Support** brings you expert product assistance over the phone, email, chat, or web for any technical questions relating to your drives and soft starters, including configuration, diagnostics, and maintenance. Our global support team is multi-lingual with support available up to R&D level experts if needed.

Our **On-Site Expert Assistance** service offers you access to highly skilled field service experts to troubleshoot and resolve drive or soft starter equipment-related matters at your site, as a back-up source of expertise for your personnel.

Support and Maintain

Our **Service Plans** manage the operation and lifecycle of your assets through well-defined maintenance plans tailored to your operational needs, from the basic Advantage Service Plans and associated EcoStruxure Service Plans to comprehensive EcoCare. Learn how you can help protect your valuable industrial assets, helping reduce the risk of unplanned downtime and saving costs. Service agreements are built in the Support and Maintain phases with service levels defining availability, response, and lead times matching your needs. You will enjoy priority access to Schneider Electric support when you need it, as well as having an expert partner to plan the long-term evolution of your drives and soft starters.

We can help you by:

- Providing remote or on-site expertise
- Offering a range of support programs to enable customization
- Offering preventive and comprehensive predictive maintenance options
- Revitalizing systems to extend asset life
- Offering advanced services to improve operator performance

EcoCare

EcoCare provides membership-based service plans from on-site and preventive maintenance to next-level predictive capabilities. Enabled by AI-powered analytics, gain 24x7 direct access to global network of dedicated experts, digitized asset monitoring and alarming, and periodic reports on connected assets.

3 Offers Tiers purposed to cover all your needs

EcoCare Essential	EcoCare Advanced	EcoCare Advanced+
Available when you need us As EcoCare members, you have exclusive access to resources and expertise from Schneider Electric to resolve issues faster and improve the resiliency and efficiency of your business and operations	You are fully empowered We empower your teams to run a resilient, safe, efficient and sustainable operation by anticipating and remotely helping you mitigate downtime events	Maximum uptime We anticipate risks of downtime to give you the right support at the right time , and we optimize the lifecycle of your assets to maximize your business continuity

Dedicated service offers for your installed base

Support and Maintain (continued)

EcoStruxure Service Plan for Drives - We offer an advanced digital service built on a robust, cybersecure architecture and powered by a 24/7 Connected Services Hub. This platform delivers real-time insights and actionable recommendations to optimize performance and reliability.

Key features – focused on drives:

- > **24/7 Remote Expert Support:** Continuous access to specialized consultancy for rapid issue resolution and guidance.
- > **Real-Time Data Monitoring & Advanced Analytics:** Proactive performance tracking with intelligent diagnostics and predictive insights.
- > **Elite Field Services:** On-site expertise and flawless execution from top-tier service professionals.

For more information, visit our [ESP for Drives](#) web page.

Our **EcoStruxure Service Plan for Rotating Equipment** helps reduce unplanned downtime for important equipment by detecting both electrical and mechanical faults by monitoring rotating equipment located in areas that are hard to reach, or where it is not possible to fit sensors, or in harsh conditions where other technologies cannot be installed. It allows you to monitor your motor fleet from multiple manufacturers centrally with a high level of detection accuracy, having information at your fingertips in a mobile and web app.

For more information, visit our [ESP for Rotating Equipment](#) web page.

Our **Advantage Service Plan for Drives** offers flexibility and scalability to adapt to your needs. It helps to reduce and avoid unplanned downtime, with Premium Support offering a best-in-class experience, and consistent experience across the globe and across technologies.

These services leverage our capabilities for supporting and maintaining your variable speed drives and soft starters, offering:

- A choice of plans with services included
- Optional services for further customization
- Scalability according the number of drives you have

Original equipment parts from Schneider Electric are readily available from our local, regional, and global stocks. They will help to keep your product in operation for longer.

Our **Spare Parts Management** service identifies and manages your important spare parts either on your site or offsite. This service helps to ensure that you have access to the spares you need without having to invest in capital to maintain the stock.

Repair allows you to extend the life of your drive or soft starter. The affected product can be replaced, or repaired on-site or at our repair centers, depending on the type of product in question.

Exchange gives a second life to inoperative drives or soft starters. In this case, we offer an immediate exchange with a replacement refurbished drive or soft starter and take back the product, repair it, and keep it ready for the next exchange.

Circularity is key to minimizing waste and pollution, keeping products and materials in use, and regenerating natural systems.

Dedicated service offers for your installed base

Support and Maintain (continued)

DESIGN AND INNOVATE FOR CIRCULARITY

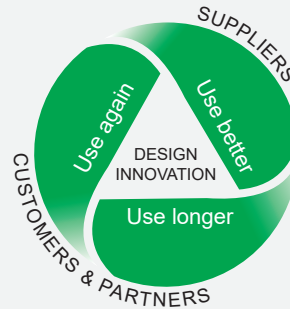
- Eco-design to use better, longer, and again
- Business model innovation: develop bundled offers with financing and retained ownership where applicable

Recycle raw materials & substances

- Recover SF6 gas
- Material recycling

Repack & refurbish

- Take back and buy back services
- Redistribute and refurbish
- Harvest spares



Source better

- Use sustainable materials, packaging

Manufacture & operate better

- Waste-to-resource sites
- Zero waste management
- Optimized logistics
- Local biodiversity actions
- Single-use-plastic-free sites
- Net-zero-ready operations
- Water action plans in water-stressed sites

Modernize & upgrade

- Retrofit and upgrade solutions to avoid replacing with new equipment

Maintain & repair

- Condition-based maintenance powered by analytics and artificial intelligence

At Schneider Electric, we have chosen to adopt end-to-end circularity by leveraging innovation and changing our offer creation, product design, and manufacturing to use better, use longer, and use again.

- > **Use better:** Make the most of resources and maximize value retention through design, sourcing, and manufacturing decisions.
- > **Use longer:** Supercharge your maintenance strategy and extend the life of your equipment with next-generation service plans, reparability, and modernization services.
- > **Use again:** [Learn more](#) about how we recirculate products, parts, and materials to retrofit highly performing solutions.

Training

Our **Training** service offers eLearning, classroom, and on-site training provision to enhance the technical installation, commissioning, and maintenance competencies of your personnel. Added competence translates into further process efficiency and reliability, as well as employee satisfaction.

Find out more on our [Training](#) web page.



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Legal information

The information provided in this Catalog contains description of Schneider Electric products, solutions and services ("Offer") with technical specifications and technical characteristics of the performance of the corresponding Offer.

The content of this document is subject to revision at any time without notice due to continued progress in methodology, design and manufacturing.

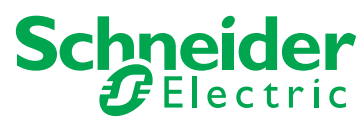
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Learn more about our products at www.se.com/drives

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