Catalog | July 2026



Altivar ATV305

Variable speed drives for material handling machines

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Schneider Electric

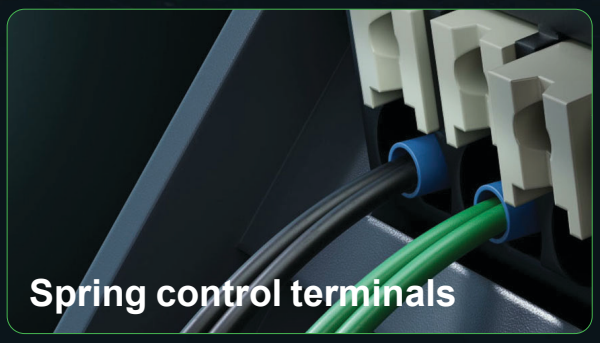
Make precise

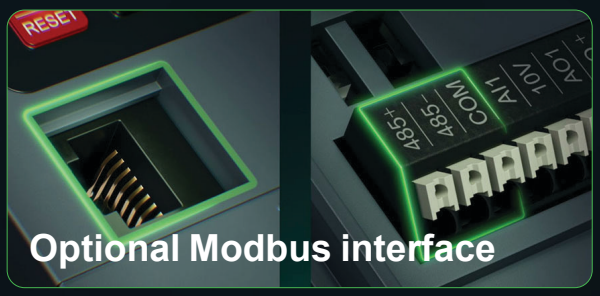
IMPACT

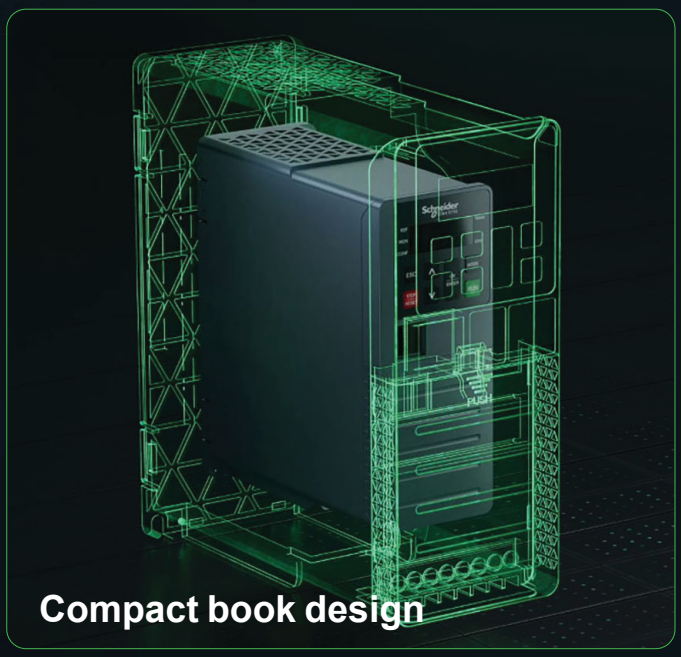
with Altivar ATV305 drives



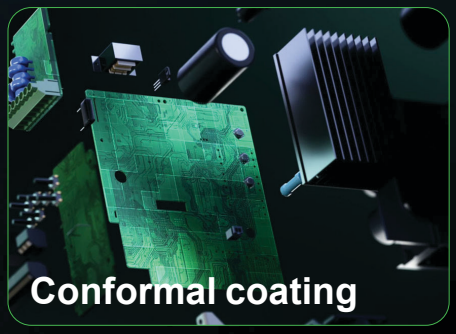
Flexibility **Robustness** **Adaptability**













* Available for three-phase motors only

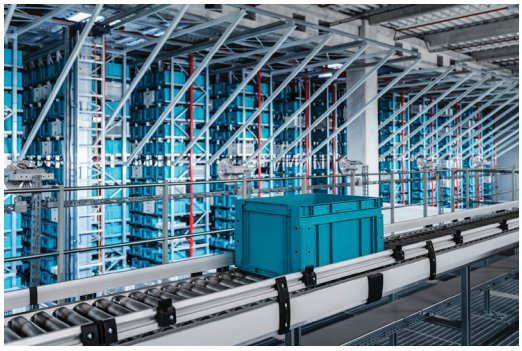
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Variable speed drives
Altivar ATV305
Presentation, applications, and functions



Logistics machine



Packaging machine



Food and beverage line

Presentation

The Altivar ATV305 drive is a frequency inverter for:
- Three-phase asynchronous and synchronous motors rated from 0.37 to 5.5 kW/*0.5 to 7.5 HP* and operating at a supply voltage of 380 to 460 VAC
- Single-phase asynchronous motors rated from 0.18 to 2.2 kW/*0.25 to 3 HP* and operating at a supply voltage of 200 to 240 VAC

The compact book size of this drive, its flexibility of installation and wiring, its robustness of design, are based on the principle of Plug & Play. Its highly adaptable integrated functions make it particularly suitable for material handling machines in logistics, packaging, and F&B segments.
By taking account of the constraints governing installation and use at the product design stage, we have been able to offer a dependable, cost-effective solution to manufacturers of compact machines (OEMs).
The Altivar ATV305 has been developed without compromising quality.

Applications

This drive incorporates functions that are suitable for the most common applications, including:
- Material handling
- Packaging and printing machines
- Food and beverage

Functions

In addition to the functions usually available on this type of drive, the Altivar ATV305 drive also features the following:

Motor control functions *(1)*

- Support both IM and PM motor control *(2)*
- Motor control profiles: standard, performance, pump/fan, and synchronous motor control *(2)*
- Cooling fan thermal control
- Switching frequency management
- Boost torque
- Motor noise reduction
- Current limitation
- Auto DC injection

Application functions *(1)*

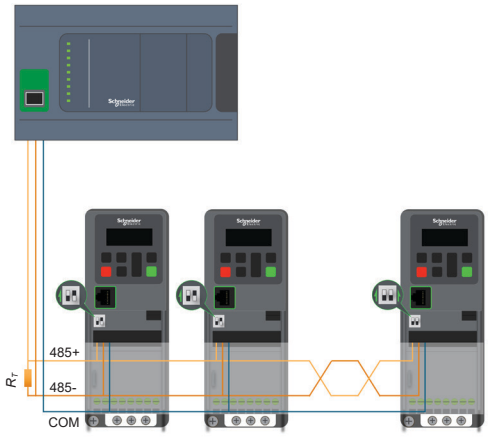
- Frequency skip
- Preset speeds
- PID regulator
- S ramp, U ramp, ramp switching
- Jog operation
- +/- speed around reference
- Freewheel stop, fast stop
- Catch on the fly

(1) For more information on how to implement functions, please refer to the User Manual on our website.
(2) Function available for the three-phase synchronous motors only.

Variable speed drives
Altivar ATV305
Functions, an optimized offer



Altivar ATV305 range



Daisy chain connection by RS485 terminals

Functions *(continued)*

Control functions *(1)*

- Channel configuration - separate mode or combined mode
- Reference channel selection
- Reverse inhibition
- Force local control
- Store customer parameter settings

Protection and maintenance functions *(1)*

- Protection of the installation by means of underload and overload detection
- Maintenance functions:
  - HMI password
  - Configuring the logic and analog I/O
  - Viewing the state of the logic inputs on the drive display
  - Status display (drive power on/fan time/process elapsed time)
  - Display of the last four detected faults, detected error log, etc.

An optimized offer

Environment

The entire range conforms to international standards IEC/EN 61800-5-1 and IEC/EN 61800-3 and has been developed to meet the requirements of directives relating to protection of the environment (RoHS, REACH, WEEE).
With its independent air flow design and conformal coating, which helps to protect the PCB, the range can be used in the harshest environments. It can withstand a 40 °C/*104 °F* ambient air temperature around the device without derating *(2)*.
It has an IP20 protection rating.

Adaptability and performance

The Altivar ATV305 has been designed with increased adaptability to different motors and loads.
One of its main features is its starting and braking torque capacity:

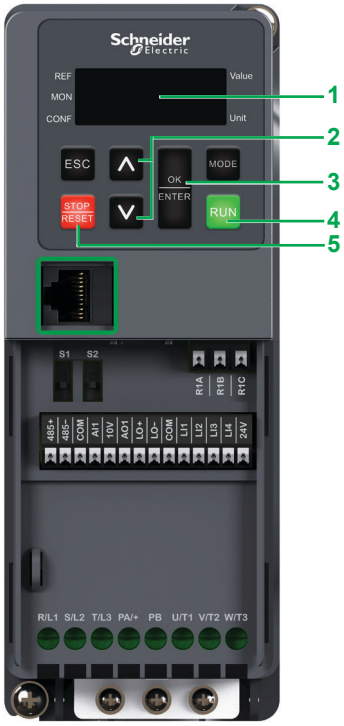
- Braking capacity:
  - Over 70% of the rated motor torque without braking resistor
  - 150% of the rated motor torque with braking resistor (see page 12)
- Torque capacity:
  - Overtorque: 170 to 200%, depending on model *(3)*
- Synchronous motor control *(4)*:
  - Supports both SPM and IPM type motors
- All models in the range have an integrated braking unit.

Easy to integrate in system

The Altivar ATV305 drive integrates the Modbus communication protocol as standard, which can be accessed via the RS485 terminals or the RJ45 connector with a 2-wire RS485 physical interface. To communicate on the network, the drive uses the Modbus RTU transmission mode. A daisy chain connection can be easily implemented via the RS485 terminals.
For more information on the Modbus port characteristics (transmission speed, address, messaging, etc.), please consult the Modbus manual on our website.

Logic inputs (LI1 to LI4) can be configured as source or sink by software, compatible with many PLCs.

(1) For more information on how to implement functions, please refer to the User Manual on our website.
(2) For more information on temperature conditions and derating curves, please refer to the User Manual.
(3) For more information, please refer to our website.
(4) Function available for the three-phase synchronous motors only



Integrated keypad and terminals

An optimized offer *(continued)*

Easy to install

The Altivar ATV305 drive can be easily and quickly installed:
- Spring type control terminals improve wiring efficiency
- They can be identified by the rating label beside the RJ45 port
- Drives can be mounted side by side to save cabinet space:
  - For three-phase, drives ≥1.5kW/2HP
  - For single-phase, drives ≥0.55kW/0.75HP
- Power terminals are easily identified and differentiated
- A connection guide is shown inside the cover plate

Easy to commission

Human-Machine Interface (integrated keypad)

The 4-digit display **1** can be used to display status and detected fault information.
The UP and DOWN buttons **2** and the OK/ENTER button **3** can be used in combination to access and modify parameters.
The RUN button **4** and STOP/RESET button **5** are only active after being configured.

Remote display terminal

The Altivar ATV305 drive can be connected to a remote display terminal, available as an option. This terminal can be mounted on an enclosure door with IP54 or IP65 degree of protection. The maximum operating temperature is 50 °C/*122 °F*. It provides access to the same functions as the Human-Machine interface.

Simple Loader and Multi-Loader configuration tools

The Simple Loader tool enables one powered-up drive's configuration to be duplicated on another powered-up drive. Operation is very simple.
The Multi-Loader tool enables configurations from a PC or drive to be copied and duplicated on another drive; the drives do not need to be powered up. The configuration can be loaded into the drive without taking it out of its packaging.

Easy to maintain

The drive alerts the user when it is necessary to clean the heatsink or replace the cooling fan. The fan, which is the only wearing part, can be changed without the need for any tools.
An access code allowing authorized people to configure applications and settings in Configuration mode helps to ensure system security. Non-authorized users are only able to use Monitoring mode (parameter display).

Main characteristics

Analog input AI1

One software-configurable voltage or current analog input:
- Voltage analog input: 0...10 V ⎓ , impedance 30 kΩ
- Analog current input: X-Y mA by programming X and Y from 0–20 mA, impedance 250 Ω

Sampling time: ± 20 ms
Resolution: 10 bits
Accuracy: ± 1% at 25 °C/77 °F
Linearity: ± 0.3% of the maximum scale value
Factory setting: Input configured as voltage type 0 to 10 V ⎓

Logic input plus LIU

- When the inverter input is in positive logic connection (source mode), AI1 can be used as a logic input by setting the AI1 type to LIU and adding the pull-up resistor (15 kΩ).
- When the inverter input is in negative logic connection (sink mode), AI1 does not support this use as the LIU logic input.
- When AI1 is used as a logic input, the input impedance is 30 kΩ; the maximum input voltage of AI1 port is 20 V (for internal or external power supply):
  - If ≤3 V, state 0
  - If ≥7 V, state 1

Analog output AO1

One software-configurable voltage or current analog output:
- Analog voltage output: 0…10 V ⎓ , minimum load impedance 470 Ω
- Analog current output: 0–20 mA, maximum load impedance 800 Ω

Sampling time: < 10 ms
Resolution: 8 bits
Accuracy: ± 1% at 25 °C/77 °F

Relay outputs R1A, R1B, R1C

One protected relay output, 1 NO contact, and 1 NC contact with common point
Response time: 30 ms maximum
Minimum switching capacity: 5 mA for 24 V ⎓
Maximum switching capacity:
- On resistive load (cos φ = 1 and L/R = 0 ms): 3 A at 250 V ∿ or 4 A at 30 V ⎓
- On inductive load (cos φ = 0.4 and L/R = 7 ms): 2 A at 250 V ∿ or 30 V ⎓

Logic inputs LI1...LI4

Four programmable logic inputs, compatible with PLC level 1, standard IEC/EN 61131-2
24 V ⎓ internal power supply or 24 V ⎓ external power supply (min. 18 V, max. 30 V)
Sampling time: < 20 ms
Sampling time tolerance: ± 1 ms
Factory-set with 2-wire control in "transition" mode for machine usability reasons:
- LI1: forward
- LI2…LI4: not assigned

Multiple assignment makes it possible to configure several functions on one input (for example: LI1 assigned to forward and preset speed 2, LI3 assigned to reverse and preset speed 3)
Impedance 3.5 kΩ

Logic output LO1

One 24 V ⎓ logic output assignable as positive logic (Source) or negative logic (Sink) open collector type, compatible with level 1 PLC, standard IEC/EN 61131-2
Maximum voltage: 30 V
Linearity: ± 1%
Maximum current: 100 mA *(1)*
Impedance: 1 kΩ
Sampling time: 20 ms ± 1 ms

(1) The maximum current for logic output LO1 is 100 mA when the internal or external 24 V power supply powers LO1 only. If the internal 24 V power supply also powers the logic inputs, the maximum current is 80 mA.

Variable speed drives
Altivar ATV305
Drives for asynchronous motors
Single-phase supply voltage: 200…240 V



ATV305H018M2...075M2

Drives for asynchronous motors

Single-phase supply voltage: 200…240 V 50/60 Hz

Motor			Line supply			Altivar ATV305				
Power indicated on rating plate *(1)* HD: Heavy duty *(2)*			Max. line current *(3)*		Apparent power	Maximum continuous output current (In) *(1)*	Maximum transient current for 60 s	Dissipated power at maximum output current (In) *(1)*	Reference	Weight *(4)*
			200 V	240 V	240 V	200 V				
	kW	*HP*	A	A	kVA	A	A	W		kg/ *lb*
HD	0.18	*0.25*	3.4	2.8	0.7	1.4	2.1	14.2	ATV305H018M2	0.7/ *1.54*
HD	0.37	*0.5*	5.9	4.9	1.2	2.4	3.6	21.1	ATV305H037M2	0.7/ *1.54*
HD	0.55	*0.75*	8	6.7	1.6	3.5	5.3	36.1	ATV305H055M2	0.7/ *1.54*
HD	0.75	*1*	10.2	8.5	2	4.2	6.3	45.6	ATV305H075M2	0.7/ *1.54*
HD	1.5	*2*	17.8	14.9	3.6	7.5	11.2	85.3	ATV305HU15M2	1.1/ *2.43*
HD	2.2	*3*	24	20.3	4.8	10	15	103.4	ATV305HU22M2	1.1/ *2.43*



ATV305HU15M2...U22M2

Dimensions (overall)

Drives with heatsinks	W x H x D	
	mm	*in.*
ATV305H018M2 ATV305H037M2 ATV305H055M2 ATV305H075M2	65 x 155 x 147	*2.56 x 6.1 x 5.79*
ATV305HU15M2 ATV305HU22M2	70 x 192 x 167	*2.76 x 7.56 x 6.57*

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation.
If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz and 20% for 12 kHz.
The switching frequency can be set between 2 and 12 kHz for all ratings.
Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.
See the derating curves in the User Manual, available on our website.
(2) Values given for applications requiring significant overload (up to 150% for 60 s).
(3) Line current network requirement: network short circuit current Isc ≤ 5 kA.
(4) Weight of product without packaging.

Variable speed drives
Altivar ATV305
Drives for asynchronous and synchronous motors
Three-phase supply voltage: 380…460 V



ATV305HU037N4...U22N4



ATV305HU30N4...U55N4

Drives for asynchronous and synchronous motors

Three-phase supply voltage: 380…460 V 50/60 Hz

Motor			Line supply			Altivar ATV305				
Power indicated on rating plate *(1)* HD: Heavy duty *(2)*			Max. line current *(3)*		Apparent power	Maximum continuous output current (In) *(1)*	Maximum transient current for 60 s	Dissipated power at maximum output current (In) *(1)*	Reference	Weight *(4)*
			380 V	460 V	460 V	380 V				
	kW	*HP*	A	A	kVA	A	A	W		kg/ *lb*
HD	0.37	*0.5*	2.1	1.8	1.4	1.5	2.3	19.5	ATV305H037N4	1/ *2.205*
HD	0.75	*1*	3.5	3.1	2.5	2.3	3.5	28.2	ATV305H075N4	1/ *2.205*
HD	1.5	*2*	6.5	5.4	4.3	4.1	6.2	45.3	ATV305HU15N4	1.1/ *2.43*
HD	2.2	*3*	8.8	7.2	5.7	5.5	8.3	57.5	ATV305HU22N4	1.1/ *2.43*
HD	3	*4*	11.1	9.2	7.3	7.1	10.7	81.1	ATV305HU30N4	1.2/ *2.646*
HD	4	*5*	13.7	11.4	9.1	9.5	14.3	117	ATV305HU40N4	1.2/ *2.646*
HD	5.5	*7.5*	21.3	14.3	11.4	12.6	18.9	172	ATV305HU55N4	1.35/ *2.976*

Dimensions (overall)

Drives with heatsinks	W x H x D	
	mm	*in.*
ATV305H037N4 ATV305H075N4 ATV305HU15N4 ATV305HU22N4	65 x 170 x 157	*2.56 x 6.69 x 6.18*
ATV305HU30N4 ATV305HU40N4 ATV305HU55N4	70 x 192 x 167	*2.76 x 7.56 x 6.57*

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation.
If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz and 20% for 12 kHz.
The switching frequency can be set between 2 and 12 kHz for all ratings.
Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.
See the derating curves in the User Manual, available on our website.
(2) Values given for applications requiring significant overload (up to 150% for 60 s).
(3) Line current network requirement: network short circuit current Isc ≤ 5 kA.
(4) Weight of product without packaging.

Variable speed drives
Altivar ATV305
Configuration tools, remote display terminals, and replacement parts



Simple loader configuration tool



Multi loader configuration tool



Remote terminal with cover open

Configuration tools

Description	Reference
Simple loader tool For duplicating one drive configuration on another drive. The drives must be powered-up. The tool is supplied with a cordset equipped with two RJ45 connectors.	VW3A8120 *(1)*
Multi loader tool For copying a configuration on a PC or drive and duplicating it on another drive. The drives do not need to be powered-up. Supplied with the tool: ■ One cordset equipped with two RJ45 connectors ■ One cordset equipped with a USB type A connector and a USB Mini-B type connector ■ 1x 2 GB SD memory card ■ Four AA/LR6 1.5 V batteries	VW3A8121 *(2)*

Remote display terminals and associated cordsets

Description	Degree of protection	Reference	Weight kg/ *lb*
Remote display terminals For mounting the Human-Machine interface on an enclosure door with IP54 or IP65 degree of protection. A remote-mounting cordset VW3A1104R●● is also required.	IP54	VW3A1006	0.250/ *0.55*
	IP65	VW3A1007	0.275/ *0.61*
Remote-mounting cordsets equipped with two RJ45 connectors For connecting the VW3 A1 006 or VW3A1007 remote display terminal to the Altivar ATV305 drive	Length: 1 m/*3.28 ft*	VW3A1104R10	0.05/ *0.11*
	Length: 3 m/*9.84 ft*	VW3A1104R30	0.15/ *0.33*

Dimensions (overall)

Remote display terminal	W x H x D	
	mm	*in.*
VW3A1006	50 x 70 x 22.7	*1.97 x 2.76 x 0.89*
VW3A1007	66 x 106 x 26.7	*2.6 x 4.17 x 1.05*

(1) The firmware version of the simple loader tool must be ≥ V1.7.
(2) The firmware version of the multi loader tool must be ≥ 3.17.

Variable speed drives
Altivar ATV305
Options: EMC filters



VW3A4422

Presentation

EMC filters

The additional EMC input filters enable the drives to meet more stringent requirements:
- ■ They are designed to reduce conducted emissions on the line supply:
- □ For single-phase (ATV305H●●●M2), below the limits of standard IEC 61800-3 category C1.
- □ For three-phase (ATV305H●●●N4), below the limits of standard IEC 61800-3 category C3
- ■ They extend the maximum motor cable length for the IEC 61800-3 related category:

References

EMC filters for single-phase motor

Drive reference	200 V line input current	EMC filter reference	EN 61800-3	
			Conduct emission	Radiated emission
	A			
ATV305H018M2	3.4	VW3A4416	C1 max. shielded cable 20 m/*66 ft*	C1 max. shielded cable 5 m/*16 ft*
ATV305H037M2	5.9			
ATV305H055M2	8		C2/C3 max. shielded cable 50 m/*164 ft*	C2/C3 max. shielded cable 5 m/*16 ft*
ATV305H075M2	10.2			
ATV305HU15M2	17.8	VW3A4417		
ATV305HU22M2	24			

EMC filters for three-phase motor

Drive reference	380 V line input current	EMC filter reference	EN 61800-3	
			Conduct emission	Radiated emission
	A			
ATV305H037N4	2.1	VW3A4422	C3 max. shielded cable 25 m/*82 ft*	C3 max. shielded cable 5 m/*16 ft*
ATV305H075N4	3.5			
ATV305HU15N4	6.5			
ATV305HU22N4	8.8			
ATV305HU30N4	11.1	VW3A31406		
ATV305HU40N4	13.7			
ATV305HU55N4	21.3			

Variable speed drives
Altivar ATV305
Options: line chokes



VW3A4551

Presentation

Line chokes

A line choke can be used to provide improved protection against overvoltages on the line supply and to reduce harmonic distortion of the current produced by the drive.
The recommended chokes limit the line current. They have been developed in line with standard EN 50178 (VDE 0160 level 1 high energy overvoltages on the line supply).
The choke values are defined for a voltage drop between phases of between 3% and 5% of the nominal supply voltage. Values higher than this will cause loss of torque.
These chokes should be installed upstream of the drive.

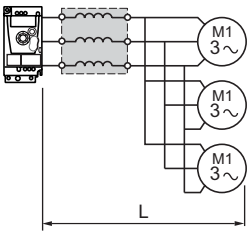
The use of line chokes is recommended in particular under the following circumstances:
- Line supply with significant disturbance from other equipment (interference, overvoltages)
- Line supply with voltage imbalance between phases above 1.8% of the nominal voltage
- Drive supplied by a line with very low impedance (in the vicinity of a power transformer 10 times more powerful than the drive rating)
- Installation of a large number of frequency inverters on the same line
- Reducing overloads on the cosϕ correction capacitors, if the installation includes a power factor correction unit

References

Line chokes

For drives		Line current without choke		Line current with choke		Choke	
	Duty	380 V	460 V	380 V	460 V	Reference	Weight
		A	A	A	A		kg/ *lb*
ATV305H037N4	HD	2.1	1.8	1.1	1	VW3A4551	1.5/ *3.31*
ATV305H075N4	HD	3.5	3.1	1.9	1.7		
ATV305HU15N4	HD	6.5	5.4	3.5	2.9	VW3A4552	3.7/ *8.16*
ATV305HU22N4	HD	8.8	7.2	5.1	4.4		
ATV305HU30N4	HD	11.1	9.2	6.6	5.6		
ATV305HU40N4	HD	13.7	11.4	8.5	7.7	VW3A4553	4.1/ *9.04*
ATV305HU55N4	HD	21.3	14.3	11.6	9.9		

Variable speed drives
Altivar ATV305
Options: motor chokes



VW3A455●
Motor choke

Presentation

Motor chokes

Motor chokes are required:
- ■ When connecting more than two motors in parallel
- ■ When the motor cable length (L), including tap-offs, is:
- □ For ATV305H●●●N4 drives:
  - 25 m/*82 ft* maximum for a shielded motor cable *(1)*
  - 50 m/*164 ft* maximum for an unshielded motor cable *(1)*
- □ For ATV305H●●●M2 drives:
  - 50 m/*164 ft* maximum for a shielded motor cable *(1)*
  - 100 m/*328 ft* maximum for an unshielded motor cable *(1)*

Motor chokes can be inserted between the Altivar ATV305 drive and the motor to:
- ■ Limit the dv/dt at the motor terminals (500 to 1500 V/µs) for cables longer than 50 m/*164 ft*
- ■ Filter interference caused by the opening of a contactor placed between the filter and the motor
- ■ Reduce the motor ground leakage current
- ■ Smooth the motor current wave form to reduce motor noise



VW3A455●

References

Motor chokes (2)

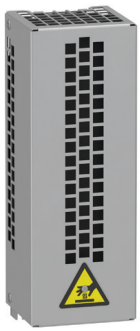
Drive reference	Duty	Rated current A	Power loss W	Choke reference
ATV305H018M2	HD	4	*45*	VW3A4551
ATV305H037M2	HD			
ATV305H055M2	HD			
ATV305H037N4	HD			
ATV305H075N4	HD			
ATV305H075M2	HD	10	*65*	VW3A4552
ATV305HU15M2	HD			
ATV305HU15N4	HD			
ATV305HU22N4	HD			
ATV305HU30N4	HD			
ATV305HU22M2	HD	17	*75*	VW3A4553
ATV305HU40N4	HD			
ATV305HU55N4	HD			

Dimensions (overall)

Line chokes or motor chokes	W x H x D	
	mm	*in.*
VW3A4551	100 x 135 x 60	*3.94 x 5.31 x 2.36*
VW3A4552 VW3A4553	130 x 155 x 90	*5.12 x 6.1 x 3.54*

(1) Motor cable length given for a switching frequency of 4 kHz.
(2) With motor chokes, all the drives in the range can be used for a maximum 100 m/328 ft with shielded motor cables and 200 m/656 ft with unshielded motor cables.

Variable speed drives
Altivar ATV305
Options: braking resistors, Modbus serial link



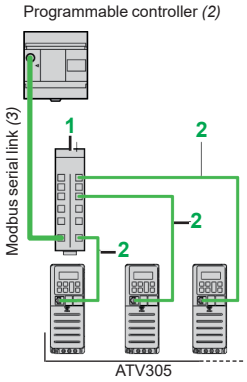
VW3A7730

Braking resistors

For drives	Minimum Ohmic value	Ohmic value at	Power available at	Reference	Weight
		20° C/68 °F	50° C/122 °F (1)		
	Ω	Ω	W		kg/ lb
Protected resistor (IP20 or IP23)					
ATV305H018M2...U037M2	40	100	100	VW3A7730	1.5/ 3.31
ATV305H037N4...U15N4	80				
ATV305HU22N4	60				
ATV305HU30N4...U40N4	36				
ATV305H055M2...H075M2	40	60	160	VW3A7731	2/ 4.41
ATV305HU15M2	27				
ATV305HU55N4	28				
ATV305HU22M2	25	28	300	VW3A7732	2.7/ 5.95

Dimensions (overall)

Braking resistors	W x H x D	
	mm	in.
VW3A7730	105 x 295 x 100	4.13 x 11.61 x 3.94
VW3A7731	105 x 345 x 100	4.13 x 13.58 x 3.94
VW3A7732	175 x 345 x 100	6.89 x 13.58 x 3.94

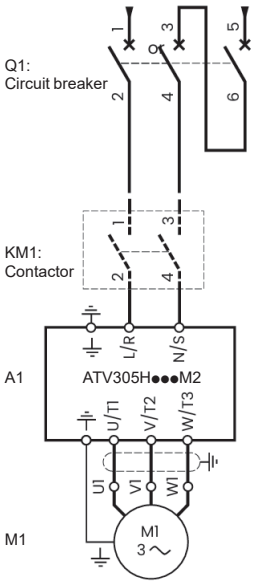


Example of Modbus diagram with connection via splitter box and RJ45 connectors

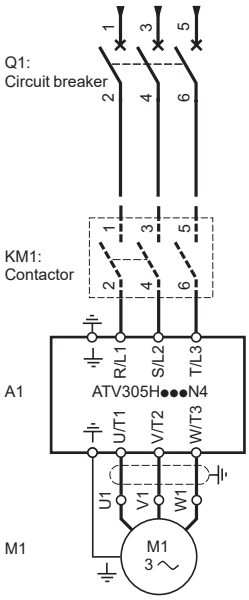
Modbus serial link

Description	Item no.	Length m/ft	Unit reference	Weight kg/ lb
Connection via splitter box and RJ45 connectors				
Modbus splitter box 10 RJ45 connectors and one screw terminal	1	–	LU9GC3	0.5/ 1.1
Cordsets for Modbus serial link equipped with two RJ45 connectors	2	0.3/0.98	VW3A8306R03	0.025/ 0.06
		1/3.28	VW3A8306R10	0.6/ 1.32
		3/9.84	VW3A8306R30	0.13/ 0.29
Line terminators	–	–	**Not Applicable** (4)	–

(1) Load factor for resistors: the value of the average power that can be dissipated at 50 °C/122 °F from the resistor into the casing is determined for a load factor during braking that corresponds to the majority of normal applications.
(2) Please refer to the programmable controller catalog on our website.
(3) Cable depends on the type of controller or PLC.
(4) ATV305 has an integrated terminal resistor which can be enabled via DIP switch S2.



Motor starter with single-phase power supply



Motor starter with three-phase power supply

Applications

The proposed combinations can:
- Help protect people and equipment (when a short-circuit occurs)
- Maintain protection upstream of the drive in the event of a short-circuit on the power stage

Two types of combination are possible:
- Drive + circuit-breaker: Minimum combination
- Drive + circuit-breaker + contactor: Minimum combination with contactor when a control circuit is needed

Motor starters: Circuit breaker + Contactor + Drive

Standard power ratings of 50/60 Hz 4-poles motors *(1)*		Variable speed drive	Circuit breaker			Contactor
		Reference	Magnetic protection rating	Reference	Irm	Reference *(2)*
kW	***HP***		**A**		**A**	
Single-phase supply: 200…240 V, 50/60 Hz						
0.18	*0.25*	**ATV305H018M2**	4	**GV2L08**	74	**LC1E09●●M7**
0.37	*0.5*	**ATV305H037M2**	6.3	**GV2L10**	91	
0.55	*0.75*	**ATV305H055M2**	10	**GV2L14**	149	
0.75	*1*	**ATV305H075M2**	14	**GV2L16**	253.4	**LC1E12●●M7**
1.5	*2*	**ATV305HU15M2**	18	**GV2L20**	341	**LC1E18●●M7**
2.2	*3*	**ATV305HU22M2**	25	**GV2L22**	388.3	**LC1E25●●M7**
Three-phase supply: 380…460 V, 50/60 Hz						
0.37	*0.5*	**ATV305H037N4**	2.5	**GZ1LE07**	39	**LC1E09●●M7**
0.75	*1*	**ATV305H075N4**	4	**GZ1LE08**	74	
1.5	*2*	**ATV305HU15N4**	10	**GZ1LE14**	149	**LC1E18●●M7**
2.2	*3*	**ATV305HU22N4**	14	**GZ1LE16**	253.4	**LC1E32●●M7**
3	*4*	**ATV305HU30N4**				
4	*5*	**ATV305HU40N4**				
5.5	*7.5*	**ATV305HU55N4**	25	**GZ1LE22**	388.3	**LC1E38●●M7**

(1) Rated at 400/415 V.
(2) For 220 VAC, 50/60 Hz control circuit. For other control voltages, please refer to the TeSys catalog.

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.

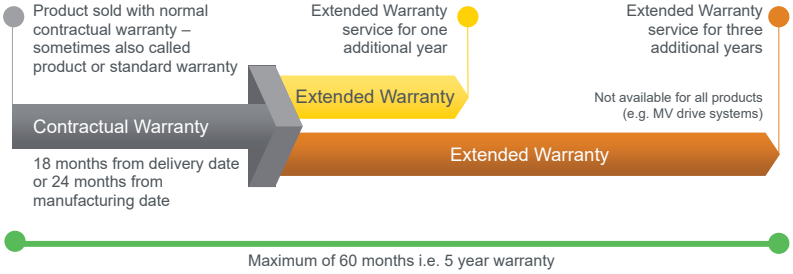
Dedicated service offers for your installed base

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
	Maxiumum 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, conveyer	■	■	■
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

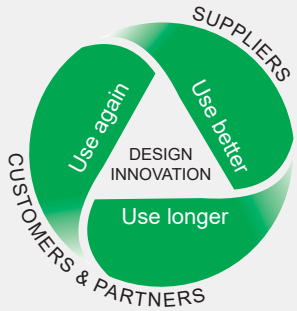
- Eco-design to use better, longer, and again
- Business model innovation: develop bundled offers with financing and retained ownership where applicable

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, repairability, 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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