

## Variable Speed drive ATV303 3Ph 400V 5,5 kw

ATV303HU55N4E

① Discontinued on: 01 November 2020

## Main

Option card	Communication card for Modbus TCP
IP degree of protection	IPx2 body
Communication port protocol	Modbus
Supply	Internal supply for logic inputs: 1930 V 100 mA, protection type: overload and short-circuit protection Internal supply for reference potentiometer (2.2 to 10 kOhm): 1010.8 V 10 mA, protection type: overload and short-circuit protection
Electrical connection	LI1LI4 terminal 4 mm² L1, L2, L3, PA/+, PB, U, V, W terminal 4 mm² LO+, LO- terminal 4 mm² R1A, R1B, R1C terminal 4 mm² AO1 terminal 4 mm²
Asynchronous motor control profile	Quadratic voltage/frequency ratio Vector control with/without speed feedback Constant voltage/frequency ratio
Speed range	120
Power dissipation in W	141.5 W at nominal load
Maximum transient current	18.9 A for 60 s 25.2 A for 2 s
Apparent power	11.4 kVA
Line current	21.3 A at 380 V, lsc = 22 kA 14.3 A at 460 V
Network number of phases	3 phases
Supply frequency	5060 Hz - 55 %
[Us] rated supply voltage	380460 V - 1510 %
Motor power kW	5.5 kW
Component name	ATV303
Assembly style	With heat sink Enclosed
Product specific application	Simple machine
Product destination	Asynchronous motors
Product or component type	Variable speed drive
Range of product	Altivar 303

## Complementary

Sampling duration  Al1: 20 ms analog L11Ll4: 20 ms discrete  Analogue output number  1  Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (L11Ll4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms  R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (L11Ll4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	mplementary	
Network frequency	ant Re	einforced version
Prospective line Isc 22 kA  Continuous output current 12.6 A at 4 kHz  Output frequency 0.5400 kHz  Nominal switching frequency 4 kHz  Switching frequency 212 kHz adjustable  Transient overtorque 170200 % of nominal motor torque  Regulation loop Frequency PI regulator  Motor slip compensation Adjustable Suppressable Automatic whatever the load  Output voltage <= power supply voltage  Tightening torque LI1LI4: 1.4 N.m	ply voltage limits 32	23506 V
Continuous output current  12.6 A at 4 kHz  Output frequency  0.5400 kHz  Nominal switching frequency  212 kHz adjustable  Transient overtorque  170200 % of nominal motor torque  Regulation loop  Frequency PI regulator  Motor slip compensation  Adjustable Suppressable Automatic whatever the load  Output voltage  1114: 1.4 N.m L1, 1.2, 1.3 PAVr. PB. U, V. W: 1.4 N.m L0+ L0- 1.4 N.m RNA. RIB, RIC: 1.5 N.m RNA. RIB, RIC: 5 N.	work frequency 47	7.563 Hz
Output frequency         0.5400 kHz           Nominal switching frequency         212 kHz adjustable           Transient overtorque         170200 % of nominal motor torque           Regulation loop         Frequency PI regulator           Motor slip compensation         Adjustable Suppressable Automatic whatever the load           Output voltage         <= power supply voltage           Tightening torque         LHLik: 14 N.m. L. 1.2.1.3 PAY, PB, U, V, W: 1.4 N.m. PAY, PB, U, V, W: 1.4 N.m. PAY, PB, RG: 1.4 N.m. PAY, RG, RG: 1.4 N.m. PAY, RG: 1.4 N.m. PAY	spective line Isc 22	2 kA
Nominal switching frequency  212 kHz adjustable  Transient overtorque  170200 % of nominal motor torque  Regulation loop  Frequency PI regulator  Motor slip compensation  Adjustable Suppressable Automatic whatever the load  Output voltage	tinuous output current 12	2.6 A at 4 kHz
Switching frequency  212 kHz adjustable  Transient overtorque  170200 % of nominal motor torque  Regulation loop  Frequency PI regulator  Motor slip compensation  Adjustable Suppressable Automatic whatever the load  Output voltage  = power supply voltage  LiiLii. 1.4 N.m Lii. Lii. 1.4 N.m Rii. Rii. Rii. 1.4 N.m Rii. Rii. Rii. 1.4 N.m Rii. Rii. Rii. 1.4 N.m A01: 1.4 N.m A11: 20 N.m A11: 20 M.m A11: 20 M	put frequency 0.5	5400 kHz
Transient overtorque 170200 % of nominal motor torque  Regulation loop Frequency PI regulator  Motor slip compensation Suppressable Automatic whatever the load  Output voltage	ninal switching frequency 4	kHz
Regulation loop   Frequency PI regulator	tching frequency 2	12 kHz adjustable
Motor slip compensation  Adjustable Suppressable Automatic whatever the load  Output voltage  Tightening torque  Li1Li4: 1.4 N.m L1, L2, L3, PA+, PB, U, V, W: 1.4 N.m L0+, L0: 1.4 N.m R1A, R1B, R1C: 1.4 N.m A01: 1.4 N.m  Insulation  Electrical between power and control  Analogue input number  Analogue input type  Al1 configurable voltage or current 010 V, input voltage 30 V max, impedance: 3 bits  Sampling duration  Al1: 20 ms analog L11Li4: 20 ms discrete  Analogue output number  Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (L11Li4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  RAL, S1L2, T1.3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms RL1, S1L2, T1.3: 2 A at 30 V DC inductive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms RL1, S1L2, T1.3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R	nsient overtorque 17	70200 % of nominal motor torque
Suppressable Automatic whatever the load  Output voltage  ItinLi4: 1.4 N.m. L1, L2, L3, PA/+, PB, U, V, W: 1.4 N.m. R1A, R1B, R1C: 1.4 N.m. A01: 1.4 N.m. R1A, R1B, R1C: 1.4 N.m. A01: 1.4 N.m. A01: 1.4 N.m. Insulation  Electrical between power and control  Analogue input number  1  Analogue input type Al1 configurable voltage or current 010 V, input voltage 30 V max, impedance: 3 bits  Sampling duration Al1: 20 ms analog L11Li4: 20 ms discrete  Analogue output number  1  Analogue output type AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic Positive logic (L11Li4), < 13 V (state 1)  Discrete output number  2  Discrete output type Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos ph	ulation loop Fre	equency PI regulator
Tightening torque  Li1Li4: 1.4 N.m L1, L2, L3, PA/+, PB, U, V, W: 1.4 N.m R1A, R1B, R1C: 1.4 N.m R1A, R1B, R1C: 1.4 N.m A01: 1.4 N.m R1A, R1B, R1C: 1.4 N.m A01: 1.4 N.m R1A, R1B, R1C: 1.4 R1B, R1C: 1.4 N.m R1A, R1B, R1C: 1.4 R1B, R1C:	Su	uppressable
L1, L2, L3, PA/+, PB, U, V, W: 1.4 N.m LO+, LO-: 1.4 N.m R1A, R1B, R1C: 1.4 N.m R1A, R1B, R1C: 1.4 N.m A01: 1.4 N.m  Insulation  Electrical between power and control  Analogue input number  Analogue input type  Al1 configurable voltage or current 010 V, input voltage 30 V max, impedance: 3 bits  Sampling duration  Al1: 20 ms analog L11L14: 20 ms discrete  Analogue output number  1  Analogue output type  A01 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (L11L14), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms Discrete input number  4  Discrete input type  (L11L14) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	put voltage <=	= power supply voltage
Analogue input type  Al1 configurable voltage or current 010 V, input voltage 30 V max, impedance: 3 bits  Al1: 20 ms analog Ll1Ll4: 20 ms discrete  Analogue output number  1  Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (Ll1Ll4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, c	L1 LC R1	1, L2, L3, PA/+, PB, U, V, W: 1.4 N.m O+, LO-: 1.4 N.m 1A, R1B, R1C: 1.4 N.m
Analogue input type  Al1 configurable voltage or current 010 V, input voltage 30 V max, impedance: 3 bits  Sampling duration  Al1: 20 ms analog L11Ll4: 20 ms discrete  Analogue output number  1  Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (L11Ll4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC inductive load, cos phi = 1 and L/R = 0 ms  R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (L11Ll4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	ılation Ele	ectrical between power and control
Sampling duration  Al1: 20 ms analog L11Ll4: 20 ms discrete  Analogue output number  1  Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (L11Ll4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (L11Ll4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Short-circuit between motor phases: drive Overload protection (thermal): drive	logue input number 1	
Analogue output number  Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (LI1LI4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Cliscrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Short-circuit between motor phases: drive Overload protection (thermal): drive		11 configurable voltage or current 010 V, input voltage 30 V max, impedance: 30000 Ohm 20 ms 10 ts
Analogue output type  AO1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits  Discrete input logic  Positive logic (LI1LI4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 250 V AC resistive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	npling duration Al	
Discrete input logic  Positive logic (LI1LI4), < 13 V (state 1)  Discrete output number  2  Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	logue output number 1	
Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	logue output type AC	O1 voltage/current: 020 mA, impedance: 800 Ohm, resolution: 8 bits
Discrete output type  Relay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles  Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	crete input logic Po	ositive logic (LI1LI4), < 13 V (state 1)
Minimum switching current  R1A, R1B, R1C 5 mA at 24 V DC  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	crete output number 2	
Maximum switching current  R/L1, S/L2, T/L3: 2 A at 250 V AC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	crete output type Re	elay: (R1A, R1B, R1C) 1 NO + 1 NC - 100000 cycles
R/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms R/L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms R/L1, S/L2, T/L3: 5 A at 30 V DC resistive load, cos phi = 1 and L/R = 0 ms  Discrete input number  4  Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	mum switching current R1	1A, R1B, R1C 5 mA at 24 V DC
Discrete input type  (LI1LI4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3  Acceleration and deceleration ramps  Linear adjustable separately from 0.1 to 999.9 s  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	R/ R/	/L1, S/L2, T/L3: 2 A at 30 V DC inductive load, cos phi = 0.4 and L/R = 7 ms /L1, S/L2, T/L3: 5 A at 250 V AC resistive load, cos phi = 1 and L/R = 0 ms
Acceleration and deceleration ramps  Braking to standstill  By DC injection  Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	crete input number 4	
Protection type  Short-circuit between motor phases: drive Overload protection (thermal): drive	crete input type (Li	.l1Ll4) programmable as logic input at 24 V, 0100 mA for PLC, impedance: 3500 Ohm
Protection type Short-circuit between motor phases: drive Overload protection (thermal): drive		near adjustable separately from 0.1 to 999.9 s
Overload protection (thermal): drive	king to standstill By	y DC injection
Overvoltage protection: drive Undervoltage protection: drive Earth fault: drive	O\ O\ Ur	verload protection (thermal): drive vervoltage protection: drive ndervoltage protection: drive
Insulation resistance >= 500 mOhm 500 V DC for 1 minute	ılation resistance >=	= 500 mOhm 500 V DC for 1 minute
Local signalling  1 LED (red) for drive voltage Four 7-segment display units for Modbus plus status		
Time constant 5 ms for reference change	e constant 5 r	ms for reference change
		nalog input: 0.1100 Hz isplay unit: 0.1 Hz

Connector type	1 RJ45 for Modbus
Physical interface	RS485 multidrop serial link
Transmission frame	RTU
Transmission rate	4800, 9600 or 19200 bps for Modbus
Number of addresses	1247 for Modbus
Number of drive	31 for Modbus
Marking	CE
Operating position	Vertical +/- 10 degree
Height	184 mm
Width	140 mm
Depth	151 mm
Net weight	1.8 kg
Environment	
Dielectric strength	2410 V DC between earth and power terminals 3400 V AC between control and power terminals
	4.0/50 0/00

Dielectric strength	2410 V DC between earth and power terminals 3400 V AC between control and power terminals
Electromagnetic compatibility	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3
Standards	IEC 61800-5-1 IEC 61800-3
Product certifications	NOM CSA C-Tick GOST UL DNV
Pollution degree	2
Protective treatment	TC
Vibration resistance	1 gn (f= 13150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 313 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Relative humidity	595 % without condensation conforming to IEC 60068-2-3 595 % without dripping water conforming to IEC 60068-2-3
Ambient air temperature for storage	-2570 °C
Ambient air temperature for operation	-1055 °C without derating (with protective cover on top of the drive) -1065 °C with current derating 1.5 % per °C (without protective cover on top of the drive)
Operating altitude	<= 1000 m without derating 10003000 m with current derating 1 % per 100 m

## Recommended replacement(s)

ATV303HU55N4E is replaced by:



1x

variable speed drive ATV310, 5.5 kW, 7.5 hp, 380...460 V, 3 phase, without filter  ${\rm ATV310HU55N4E}$