



Kaubanduslik olek

Tootmine lõpetatud: 01 jaanuar 2018

Teeninduse lõpp varsti: 01 jaanuar 2026

⚠ Tootmisest maas

Main

Range of product	Altivar 71
Product or component type	Variable speed drive
Product specific application	Complex, high-power machines
Component name	ATV71
Motor power kW	3 kW, 3 phases at 380...480 V
Maximum motor cable length	50 m shielded cable 100 m unshielded cable
Power supply voltage	380...480 V - 15...10 %
Network number of phases	3 phases
Line current	9 A for 480 V 3 phases 3 kW 10.7 A for 380 V 3 phases 3 kW
EMC filter	Integrated
Assembly style	With heat sink
Apparent power	7 kVA at 380 V 3 phases 3 kW
Prospective line I _{sc}	5 kA 3 phases
Nominal output current	6.2 A at 4 kHz 460 V 3 phases 3 kW 7.8 A at 4 kHz 380 V 3 phases 3 kW
Maximum transient current	11.7 A for 60 s 3 phases 3 kW 12.9 A for 2 s 3 phases 3 kW
Output frequency	0,1...599 Hz
Nominal switching frequency	4 kHz
Switching frequency	1...16 kHz adjustable 4...16 kHz with derating factor
Asynchronous motor control profile	ENA (Energy adaptation) system for unbalanced loads Voltage/frequency ratio (2 or 5 points) Sensorless flux vector control (SFVC) (voltage or current vector) Flux vector control (FVC) with sensor (current vector)
Type of polarization	No impedance Modbus

Suurim lubatud võrreldavate toodete arv on täis. Avage jaotis Võrreige tooteid #LINK# ja kustutage jätkamiseks mõni toode

Complementary

Product destination	Synchronous motors Asynchronous motors
Power supply voltage limits	323...528 V
Power supply frequency	50...60 Hz - 5...5 %
Power supply frequency limits	47.5...63 Hz
Speed range	1...100 asynchronous motor in open-loop mode, without speed feedback 1...1000 asynchronous motor in closed-loop mode with encoder feedback 1...50 synchronous motor in open-loop mode, without speed feedback
Speed accuracy	+/- 0.01 % of nominal speed in closed-loop mode with encoder feedback 0.2 Tn to Tn +/- 10 % of nominal slip without speed feedback 0.2 Tn to Tn
Torque accuracy	+/- 15 % in open-loop mode, without speed feedback +/- 5 % in closed-loop mode with encoder feedback
Transient overtorque	170 % +/- 10 % 60 s every 10 minutes 220 % +/- 10 % 2 s
Braking torque	<= 150 % with braking or hoist resistor 30 % without braking resistor
Synchronous motor control profile	Vector control without speed feedback
Regulation loop	Adjustable PI regulator
Motor slip compensation	Not available in voltage/frequency ratio (2 or 5 points) Suppressable Automatic whatever the load Adjustable
Diagnostic	Drive voltage 1 LED red)
Output voltage	<= power supply voltage
Insulation	Electrical between power and control
Type of cable for mounting in an enclosure	With a NEMA Type1 kit 3 UL 508 cable 40 °C, copper 75 °C / PVC With an IP21 or an IP31 kit 3 IEC cable 40 °C, copper 70 °C / PVC Without mounting kit 1 IEC cable 45 °C, copper 70 °C / PVC Without mounting kit 1 IEC cable 45 °C, copper 90 °C / XLPE/EPR
Electrical connection	Terminal 2.5 mm ² , AWG 14 AI1-/AI1+, AI2, AO1, R1A, R1B, R1C, R2A, R2B, LI1...LI6, PWR) Terminal 4 mm ² , AWG 10 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA+, PA, PB)
Tightening torque	0,6 N.m AI1-/AI1+, AI2, AO1, R1A, R1B, R1C, R2A, R2B, LI1...LI6, PWR) 1,4 N.m, 12,3 lb.in L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA+, PA, PB)
Supply	Internal supply for reference potentiometer (1 to 10 kOhm) 10.5 V DC +/- 5 %, <10 mA overload and short-circuit protection Internal supply 24 V DC 21...27 V), <200 mA overload and short-circuit protection
Analogue input number	2
Analogue input type	AI1-/AI1+ bipolar differential voltage +/- 10 V DC 24 V max 11 bits + sign AI2 software-configurable current 0...20 mA 242 Ohm 11 bits AI2 software-configurable voltage 0...10 V DC 24 V max 30000 Ohm 11 bits
Input sampling time	2 ms +/- 0.5 ms AI1-/AI1+) - analog 2 ms +/- 0.5 ms AI2) - analog 2 ms +/- 0.5 ms LI1...LI5) - discrete 2 ms +/- 0.5 ms LI6)if configured as logic input - discrete
Response time	<= 100 ms in STO (Safe Torque Off) AO1 2 ms +/- 0.5 ms analog R1A, R1B, R1C 7 ms +/- 0.5 ms discrete R2A, R2B 7 ms +/- 0.5 ms discrete
Absolute accuracy precision	+/- 0.6 % AI1-/AI1+) for a temperature variation 60 °C +/- 0.6 % AI2) for a temperature variation 60 °C +/- 1 % AO1) for a temperature variation 60 °C
Linearity error	+/- 0.15 % of maximum value AI1-/AI1+, AI2) +/- 0.2 % AO1)
Analogue output number	1
Analogue output type	AO1 software-configurable logic output 10 V 20 mA AO1 software-configurable current 0...20 mA 500 Ohm 10 bits AO1 software-configurable voltage 0...10 V DC 470 Ohm 10 bits
Discrete output number	2
Discrete output type	Configurable relay logic R1A, R1B, R1C) NO/NC - 100000 cycles Configurable relay logic R2A, R2B) NO - 100000 cycles

Minimum switching current	3 mA 24 V DC configurable relay logic
Maximum switching current	R1, R2 2 A 250 V AC inductive, cos phi = 0,4 R1, R2 2 A 30 V DC inductive, cos phi = 0,4 R1, R2 5 A 250 V AC resistive, cos phi = 1 R1, R2 5 A 30 V DC resistive, cos phi = 1
Discrete input number	7
Discrete input type	LI1...LI5 programmable 24 V DC level 1 PLC 3500 Ohm LI6 switch-configurable 24 V DC level 1 PLC 3500 Ohm LI6 switch-configurable PTC probe 0...6 1500 Ohm PWR safety input 24 V DC 1500 Ohm ISO 13849-1 level d
Discrete input logic	Negative logic (sink) LI1...LI5), > 16 V, < 10 V Positive logic (source) LI1...LI5), < 5 V, > 11 V Negative logic (sink) LI6)if configured as logic input, > 16 V, < 10 V Positive logic (source) LI6)if configured as logic input, < 5 V, > 11 V
Acceleration and deceleration ramps	Automatic adaptation of ramp if braking capacity exceeded, by using resistor Linear adjustable separately from 0.01 to 9000 s S, U or customized
Braking to standstill	By DC injection
Protection type	Against exceeding limit speed drive Against input phase loss drive Break on the control circuit drive Input phase breaks drive Line supply overvoltage drive Line supply undervoltage drive Overcurrent between output phases and earth drive Overheating protection drive Overvoltages on the DC bus drive Short-circuit between motor phases drive Thermal protection drive Motor phase break motor Power removal motor Thermal protection motor
Insulation resistance	> 1 mOhm 500 V DC for 1 minute to earth
Frequency resolution	Analog input 0.024/50 Hz Display unit 0.1 Hz
Communication port protocol	Modbus CANopen
Connector type	1 RJ45 on front face)Modbus 1 RJ45 on terminal)Modbus Male SUB-D 9 on RJ45CANopen
Physical interface	2-wire RS 485 Modbus
Transmission frame	RTU Modbus
Transmission rate	4800 bps, 9600 bps, 19200 bps, 38.4 Kbps Modbus on terminal 9600 bps, 19200 bps Modbus on front face 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps CANopen
Data format	8 bits, 1 stop, even parity Modbus on front face 8 bits, odd even or no configurable parity Modbus on terminal
Number of addresses	1...127 CANopen 1...247 Modbus
Method of access	Slave CANopen
Marking	CE
Operating position	Vertical +/- 10 degree
Height	260 mm
Depth	187 mm
Width	155 mm
Net weight	4 kg
Functionality	Full
Specific application	Other applications
Option card	Communication card CC-Link Controller inside programmable card Communication card DeviceNet Communication card Ethernet/IP Communication card Fipio I/O extension card

Communication card Interbus-S
 Interface card for encoder
 Communication card Modbus Plus
 Communication card Modbus TCP
 Communication card Modbus/Uni-Telway
 Overhead crane card
 Communication card Profibus DP
 Communication card Profibus DP V1

Environment

Noise level	54,5 dB 86/188/EEC
Dielectric strength	3535 V DC between earth and power terminals 5092 V DC between control and power terminals
Electromagnetic compatibility	1.2/50 µs - 8/20 µs surge immunity test level 3 IEC 61000-4-5 Conducted radio-frequency immunity test level 3 IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 Electrostatic discharge immunity test level 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Voltage dips and interruptions immunity test IEC 61000-4-11
Standards	EN/IEC 61800-5-1 IEC 60721-3-3 class 3C1 EN 61800-3 environments 1 category C2 EN 61800-3 environments 2 category C2 UL Type 1 EN 55011 class A group 1 EN/IEC 61800-3 IEC 60721-3-3 class 3S2
Product certifications	UL GOST NOM 117 CSA C-Tick
Pollution degree	2 EN/IEC 61800-5-1
IP degree of protection	IP20
Vibration resistance	1 gn 13...200 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 3...13 Hz)EN/IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Relative humidity	5...95 % without condensation IEC 60068-2-3 5...95 % without dripping water IEC 60068-2-3
Ambient air temperature for operation	-10...50 °C without derating)
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without derating 1000...3000 m with current derating 1 % per 100 m

Packing Units

Pakk 1 kaal	5,821 kg
Pakk 1 kõrgus	3,050 dm
Pakk 1 laius	3,100 dm
Pakk 1 pikkus	3,800 dm

Offer Sustainability

Jätksuutliku pakkumise olek	Green Premium toode
REACH-määrus	REACH-deklaratsioon
ELi RoHS direktiiv	Ennetav vastavus (toode ei jää EL-i RoHS seadustega määratud piiridesse) ELi RoHS deklaratsioon
Elavhõbedavaba	Jah
RoHS eranditeave	Jah
Hiina EoHS regulatsioon	Hiina RoHS deklaratsioon
Keskkonnaalane avaldus	Toote keskkonnaprofiil
Ringlusprofiil	Kasutuselt kõrvaldamise teave

Contractual warranty

Garantii

18 months

ATV71HU30N4 asendatakse järgmise tooterühmaga:**Variable speed drives ATV340U30N4**

Variable speed drive, Altivar Machine ATV340, 3 kW, 400 V, 3 phases,

Kogus 1

**Drive Products ATV930U30N4**

Variable speed drive, Altivar Process ATV900, ATV930, 3 kW, 400/480 V, with braking unit, IP21

Kogus 1

Või ATV71HU30N4 võidakse asendada järgmistega toodetega:**Drive Products ATV930U40N4**

Variable speed drive, Altivar Process ATV900, ATV930, 4 kW, 400/480 V, with braking unit, IP21

Kogus 1

**Drive Products ATV930U40N4**

Variable speed drive, Altivar Process ATV900, ATV930, 4 kW, 400/480 V, with braking unit, IP21

Kogus 1

**Variable speed drives ATV340U30N4E**

variable speed drive - 3kW- 400V - 3 phases - ATV340 Ethernet

Kogus 1