ATV71H075N4

variable speed drive ATV71 - 0.75kW-1HP - 480V - EMC filter-graphic terminal





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	0.75 kW, 3 phases at 380480 V
Motor power hp	1 hp, 3 phases at 380480 V
Maximum motor cable length	50 M shielded cable 100 m unshielded cable
Power supply voltage	380480 V - 1510 %
Network number of phases	3 phases
Line current	3 A for 480 V 3 phases 0.75 kW / 1 hp 3.7 A for 380 V 3 phases 0.75 kW / 1 hp
EMC filter	Integrated
Assembly style	With heat sink
Apparent power	2.4 kVA at 380 V 3 phases 0.75 kW / 1 hp
Prospective line Isc	5 kA for 3 phases
Nominal output current	2.1 A at 4 kHz 460 V 3 phases 0.75 kW / 1 hp 2.3 A at 4 kHz 380 V 3 phases 0.75 kW / 1 hp
Maximum transient current	3.5 A for 60 s 3 phases 0.75 kW / 1 hp 3.8 A for 2 s 3 phases 0.75 kW / 1 hp
Output frequency	0.1599 Hz
Nominal switching frequency	4 kHz
Switching frequency	116 kHz adjustable 416 kHz with derating factor
Asynchronous motor control profile	Flux vector control (FVC) with sensor (current vector) Sensorless flux vector control (SFVC) (voltage or current vector) Voltage/Frequency ratio (2 or 5 points) ENA (Energy adaptation) system for unbalanced loads
Type of polarization	No impedance for Modbus

Complementary

Product destination	Synchronous motors Asynchronous motors				
Power supply voltage limits	323528 V				
Power supply frequency	5060 Hz - 55 %				
Power supply frequency limits	47.563 Hz				
Speed range	1100 for asynchronous motor in open-loop mode, without speed feedback11000 for asynchronous motor in closed-loop mode with encoder feedback150 for 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 % of nominal motor torque +/- 10 % for 60 s every 10 minutes 220 % of nominal motor torque +/- 10 % for 2 s				

With an IP21 or an IP31 kit 3 wire(s)IEC cable at 45 °C, copper 70 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC With an Internal clamping capacity 2 m² m², AWG 14 (A11-/A11+, AI2, AO1, AVD, R. PSP). First Probability 1 m² m², AWG 10 (L1/R, L2/S, L37, LVT1, VT2, WT3, LVT1, VT2, WT3, LVT1, VT2, WT3, LVT1, VT3, WT3, PC2, PO, PA4- Y10 mA, 123 bits (ILR, L2/S, L37, LVT1, VT2, WT3, PC2, PO, PA4- Y10 mA, protection by everored and short-circuit protection type: overload short-circuit protection type: overload and short-circuit protection type: overload short-circuit protection type: overload and sh		
Regulation loop Motor silp compensation Automatic whatever the load Suppressable Adjustable Automatic whatever the load Suppressable Automatic whatever voltage - power supply voltage Insulation Electrical between power and control With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 3 wire(s) ILE 508 cable at 40 °C, copper 75 °C of With an IREMA Type 1 kit 4 kit 4 kit 4 kit 5 °C, copper 90 °C of XLPE Electrical connection Terminal, clamping capacity, 2.5 mm², AWG 14 (Al1-Al1-, Al2, A01, R R A18, R R	Braking torque	· · · · · · · · · · · · · · · · · · ·
Motor slip compensation Automatic whatever the load Suppressable Adjustable Not available in voltage (1997) 1 LED (red) for drive voltage 4 power supply voltage 5 power supply voltage 5 power supply voltage 6 power supply voltage 7 pye of cable for mounting in an enclosure With a NEMA Type 1kt; 3 wire(s)(LL 588 cable at 40 °C, copper 75 °C in Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC Without mounting kit. 1 wire(s)(LE cable at 45 °C, copper 70 °C i PVC	Synchronous motor control profile	Vector control without speed feedback
Suppressable Adjustable Not available in voltage/frequency ratio (2 or 5 points) Diagnostic 1 LED (reg) for drive voltage Cutput voltage <= power supply voltage Electrical between power and control With a NEM Type I list 3 wire(s)EIC cable at 40 °C, copper 70 °C / With an IP21 or an IP31 kit 3 wire(s)EIC cable at 40 °C, copper 70 °C / With an IP21 or an IP31 kit 3 wire(s)EIC cable at 40 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without mounting kit 1 wire(s)EIC cable at 45 °C, copper 70 °C / PVC Without 1 wire at 45 °C, copper 70 °C / PVC Without 1 PVC With No. 1 °C, copper 70 °C / P	Regulation loop	Adjustable PI regulator
Output voltage Sepower supply voltage Sep	Motor slip compensation	Suppressable Adjustable
Electrical between power and control	Diagnostic	1 LED (red) for drive voltage
Type of cable for mounting in an enclosure With a NEMA Type1 kit: 3 wire(s)UL 508 cable at 40 °C, copper 75 °C With an IP-21 or an IP-31 kit: 3 wire(s)IEC cable at 40 °C, copper 70 °C / Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / RVC Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / RVC Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / RVC Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / RVC Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / RVC RTC, R2A, R2B, L11Li6, PWR] Terminal, clamping capacity: 25 mm², AWG 10 (L1/R, L2/S, L3/T, U/T1, VT3, PC-PO, PA+P, PA, PB) Teghtening torque 0.6 N M AII-/Al1+ A.JZ, A01, R1A, R1B, R1C, R2A, R2B, L11Li6, PWR 1.4 N.m, 12.3 lbin (L1/R, L2/S, L3/T, U/T1, VT2, WT3, PC-P, PO, PA+P, L2, R5 °C, PO, PA+P, L2 S, L3/T, U/T1, VT2, WT3, PC-P, PO, PA+P, L2 S, L3/T, U/T1, VT2, WT3, PC-P, PA-P, PA, PB, PB, PB, PB, PB, PB, PB, PB, PB, PB	Output voltage	<= power supply voltage
With an IP21 or an IP31 kit 3 wire(s)IEC cable at 45 °C, copper 70 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC Without mounting kit 1 wire(s)IEC cable at 45 °C, copper 90 °C / PvC With an Internal clamping capacity 2 m² m², AWG 14 (A11-/A11+, AI2, AO1, AVD, R. PSP). First Probability 1 m² m², AWG 10 (L1/R, L2/S, L37, LVT1, VT2, WT3, LVT1, VT2, WT3, LVT1, VT2, WT3, LVT1, VT3, WT3, PC2, PO, PA4- Y10 mA, 123 bits (ILR, L2/S, L37, LVT1, VT2, WT3, PC2, PO, PA4- Y10 mA, protection by everored and short-circuit protection type: overload short-circuit protection type: overload and short-circuit protection type: overload short-circuit protection type: overload and sh	Insulation	Electrical between power and control
R1C, R2A, R2B, L11L16, PWR) Terminal, clamping capagity. 4 mm², AWG 10 (L1/R, L2/S, L3/T, U/T1, T3, PC/-, PO, PA+, PA, PB) Tightening torque 0.6 N.M (A1-A11+, A12-, AO1, R1A, R1B, R1C, R2A, R2B, L11L16, PW, 14 N.m., 12.3 lb.in (L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA+ Supply Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V DC 4	Type of cable for mounting in an enclosure	With a NEMA Type1 kit: 3 wire(s)UL 508 cable at 40 °C, copper 75 °C / PVC With an IP21 or an IP31 kit: 3 wire(s)IEC cable at 40 °C, copper 70 °C / PVC Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 70 °C / PVC Without mounting kit: 1 wire(s)IEC cable at 45 °C, copper 90 °C / XLPE/EPR
1.4 N.m. 12.3 lb in (L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/r, PO, PA/F Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V DC+ <10 mA, protection type: overload and short-circuit protection Internal supply: 24 V DC (2127 V), <200 mA, protection type: overload and short-circuit protection Analogue input number 2 Analogue input type A11-/A11+ bipolar differential voltage: +/- 10 V DC 24 V max, resolution 1 sign A12 software-configurable current: 020 mA, impedance: 242 Ohm, res bits A12 software-configurable current: 020 mA, impedance: 242 Ohm, res bits A12 software-configurable current: 020 mA, impedance: 242 Ohm, res bits A12 software-configurable current: 020 mA, impedance: 30 Ohm, resolution 11 bits Input sampling time 2 Ms +/- 0.5 ms (A11-/A11+) - analog input(s) 2 Ms +/- 0.5 ms (A11-/A11+) - analog input(s) 2 Ms +/- 0.5 ms (A11-/A11+) - analog input(s) 2 Ms +/- 0.5 ms (A11-/A11+) - analog input(s) 2 Ms +/- 0.5 ms (A11-/A11+) - analog input(s) 2 ms +/- 0.5 ms (A11-/A11+) - analog input(s) 3 ms +/- 0.5 ms (A11-/A11+) - analog input(s) 4 ms +/- 0.5 ms (A11-/A11+) - analog input	Electrical connection	Terminal, clamping capacity: 4 mm², AWG 10 (L1/R, L2/S, L3/T, U/T1, V/T2, W/
Analogue input number 2	Tightening torque	0.6 N.M (Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, Ll1Ll6, 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
Analogue input type Al1-/Al1+ bipolar differential voltage: +/- 10 V DC 24 V max, resolution 1 sign Al2 software-configurable current: 020 mA, impedance: 242 Ohm, res bits Al2 software-configurable voltage: 010 V DC 24 V max, impedance: 3 Ohm, resolution 11 bits Input sampling time 2 Ms +/- 0.5 ms (Al1-/Al1+) - analog input(s) 2 Ms +/- 0.5 ms (Al2) - analog input(s) 2 Ms +/- 0.5 ms (Al2) - analog input(s) 2 Ms +/- 0.5 ms (L1) - discrete input(s) 2 ms +/- 0.5 ms (L1) - discrete input - discrete input(s) 2 ms +/- 0.5 ms (L1) - discrete input(s) 2 ms +/- 0.5 ms (L1) for configured as logic input - discrete input(s) Al2 ms to 10 ms in STO (Safe Torque Off) Al2 ms, tolerance +/- 0.5 ms for discrete output(s) R1A, R1B, R1C 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output 10 V 20 ms, impedance: 400 Ohm, in tolerance +/- 0.5 ms for discrete input 10 V 20 ms, impedance: 400 Ohm, in tolerance +/- 0.5 ms for discrete input 10 V 20 ms, impedance: 400 Ohm, in t	Supply	Internal supply: 24 V DC (2127 V), <200 mA, protection type: overload and
sign Al2 software-configurable current: 020 mA, impedance: 242 Ohm, res bits Al2 software-configurable voltage: 010 V DC 24 V max, impedance: 3 Ohm, resolution 11 bits Input sampling time 2 Ms +/- 0.5 ms (Al1-/Al1+) - analog input(s) 2 Ms +/- 0.5 ms (Al2) - analog input(s) 2 Ms +/- 0.5 ms (Al2) - analog input(s) 2 Ms +/- 0.5 ms (L10) - discrete input(s) 2 ms +/- 0.5 ms (L10) - discrete input(s) 2 ms +/- 0.5 ms (L10) - discrete input(s) 2 ms +/- 0.5 ms (L10) - discrete input(s) 2 ms +/- 0.5 ms (L10) - discrete input(s) 3 ms (L10) - discrete output(s) 4 ms (L10) ms in STO (Safe Torque Off) A01 2 ms, tolerance +/- 0.5 ms for discrete output(s) R1A, R1B, R1C 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete input 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete input 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete input 10 V 20 ms R2A, R2B 7 ms, tolerance +/- 0.5 ms for d	Analogue input number	2
2 Ms +/- 0.5 ms (AI2) - analog input(s) 2 Ms +/- 0.5 ms (L11L15) - discrete input(s) 2 ms +/- 0.5 ms (L10)ff configured as logic input - discrete input(s) Response time	Analogue input type	Al2 software-configurable current: 020 mA, impedance: 242 Ohm, resolution 1 bits Al2 software-configurable voltage: 010 V DC 24 V max, impedance: 30000
AO1 2 ms, tolerance +/- 0.5 ms for analog output(s) R1A, R1B, R1C7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms for discrete output(s) Absolute accuracy precision +/- 0.6 % (Al1-/Al1+) for a temperature variation 60 °C +/- 0.6 % (Al2) for a temperature variation 60 °C +/- 1.7 % (AO1) for a temperature variation 60 °C +/- 0.5 % of maximum value (Al1-/Al1+, Al2) +/- 0.2 % (AO1) Analogue output number 1 AO1 software-configurable logic output 10 V 20 mA AO1 software-configurable current 020 mA, impedance: 500 Ohm, res 10 bits AO1 software-configurable voltage 010 V DC, impedance: 470 Ohm, 1 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 Configurable relay logic: (R2A, R2B) NO - 100000 cycles Maximum switching current 3 mA at 24 V DC for configurable relay logic Maximum switching current R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 2 A at 250 V AC inductive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Place input number 7 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 OH LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Input sampling time	2 Ms +/- 0.5 ms (Al2) - analog input(s) 2 Ms +/- 0.5 ms (Ll1Ll5) - discrete input(s)
+/- 0.6 % (Al2) for a temperature variation 60 °C +/- 1 % (AO1) for a temperature variation 60 °C Linearity error +/- 0.15 % of maximum value (Al1-/Al1+, Al2) +/- 0.2 % (AO1) Analogue output number 1 Analogue output type AO1 software-configurable logic output 10 V 20 mA AO1 software-configurable current 020 mA, impedance: 500 Ohm, res 10 bits AO1 software-configurable voltage 010 V DC, impedance: 470 Ohm, res 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 Configurable relay logic: (R2A, R2B) NO - 100000 cycles Maximum switching current 3 mA at 24 V DC for configurable relay logic Maximum switching current R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm	Response time	AO1 2 ms, tolerance +/- 0.5 ms for analog output(s) R1A, R1B, R1C 7 ms, tolerance +/- 0.5 ms for discrete output(s)
+/- 0.2 % (AO1) Analogue output number Analogue output type AO1 software-configurable logic output 10 V 20 mA AO1 software-configurable current 020 mA, impedance: 500 Ohm, res 10 bits AO1 software-configurable voltage 010 V DC, impedance: 470 Ohm, res 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 at 24 V DC for configurable relay logic Maximum switching current R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Absolute accuracy precision	+/- 0.6 % (Al2) for a temperature variation 60 °C
Analogue output type AO1 software-configurable logic output 10 V 20 mA AO1 software-configurable current 020 mA, impedance: 500 Ohm, res 10 bits AO1 software-configurable voltage 010 V DC, impedance: 470 Ohm, res 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 at 24 V DC for configurable relay logic Maximum switching current R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Linearity error	
AO1 software-configurable current 020 mA, impedance: 500 Ohm, res 10 bits AO1 software-configurable voltage 010 V DC, impedance: 470 Ohm, in 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 at 24 V DC for configurable relay logic Maximum switching current R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type L11L15: programmable 24 V DC with level 1 PLC, impedance: 3500 Of L16: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Analogue output number	
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 at 24 V DC for configurable relay logic R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Analogue output type	AO1 software-configurable current 020 mA, impedance: 500 Ohm, resolution 10 bits AO1 software-configurable voltage 010 V DC, impedance: 470 Ohm, resolution
Configurable relay logic: (R2A, R2B) NO - 100000 cycles Minimum switching current 3 mA at 24 V DC for configurable relay logic Maximum switching current R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Discrete output number	2
Maximum switching current R1, R2: 2 A at 250 V AC inductive load, cos phi = 0.4 R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Discrete output type	
R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1 R1, R2: 5 A at 30 V DC resistive load, cos phi = 1 Discrete input number 7 Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Of LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Minimum switching current	3 mA at 24 V DC for configurable relay logic
Discrete input type LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Ol LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Oh LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Maximum switching current	R1, R2: 2 A at 30 V DC inductive load, cos phi = 0.4 R1, R2: 5 A at 250 V AC resistive load, cos phi = 1
LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Oh LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO	Discrete input number	7
level d	Discrete input type	LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Ohm LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Ohm LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO 13849-1 level d

Discrete input logic	Negative logic (sink) (LI1LI5), > 16 V (state 0), < 10 V (state 1) Positive logic (source) (LI1LI5), < 5 V (state 0), > 11 V (state 1) Negative logic (sink) (LI6)if configured as logic input, > 16 V (state 0), < 10 V (state 1) Positive logic (source) (LI6)if configured as logic input, < 5 V (state 0), > 11 V (state 1)			
Acceleration and deceleration ramps	S, U or customized Automatic adaptation of ramp if braking capacity exceeded, by using resistor Linear adjustable separately from 0.01 to 9000 s			
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	CANopen Modbus			
Connector type	1 RJ45 (on front face) for Modbus 1 RJ45 (on terminal) for Modbus Male SUB-D 9 on RJ45 for CANopen			
Physical interface	2-wire RS 485 for Modbus			
Transmission frame	RTU for Modbus			
Transmission rate	4800 bps, 9600 bps, 19200 bps, 38.4 Kbps for Modbus on terminal 9600 bps, 19200 bps for Modbus on front face 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps for CANopen			
Data format	8 bits, 1 stop, even parity for Modbus on front face 8 bits, odd even or no configurable parity for Modbus on terminal			
Number of addresses	1127 for CANopen 1247 for Modbus			
Method of access	Slave CANopen			
Marking	CE			
Operating position	Vertical +/- 10 degree			
Height	230 mm			
Depth	175 mm			
Width	130 mm			
Product weight	3 kg			
Functionality	Full			
Specific application	Other applications			
Option card	Communication card for CC-Link Controller inside programmable card Communication card for DeviceNet Communication card for EtherNet/IP Communication card for Fipio I/O extension card Communication card for Interbus-S Interface card for encoder Communication card for Modbus Plus Communication card for Modbus TCP Communication card for Modbus/Uni-Telway Overhead crane card Communication card for Profibus DP Communication card for Profibus DP			

Environment

Noise level	43 dB conforming to 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 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 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 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
Standards	IEC 60721-3-3 class 3S2 IEC 60721-3-3 class 3C1 UL Type 1 EN 61800-3 environments 1 category C2 EN/IEC 61800-5-1 EN/IEC 61800-3 EN 61800-3 environments 2 category C2 EN 55011 class A group 1
Product certifications	NOM 117 C-Tick UL CSA GOST
Pollution degree	2 conforming to EN/IEC 61800-5-1
IP degree of protection	IP20
Vibration resistance	1 gn (f= 13200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (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 operation	-1050 °C (without derating)
Ambient air temperature for storage	-2570 °C
Operating altitude	<= 1000 m without derating 10003000 m with current derating 1 % per 100 m

Packing Units

Package 1 Weight	4.470 kg	
Package 1 Height	2.500 dm	
Package 1 width	2.600 dm	
Package 1 Length	3.500 dm	

Offer Sustainability

Green Premium product			
REACh Declaration			
Pro-active compliance (Product out of EU RoHS legal scope)			
Yes			
₫Yes			
China RoHS Declaration			
Product Environmental Profile			
☑ End Of Life Information			
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			

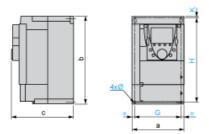
Warranty 18 months

Product data sheet Dimensions Drawings

ATV71H075N4

UL Type 1/IP 20 Drives

Dimensions without Option Card



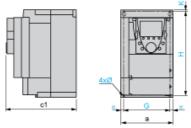
Dimensions in mm

а	b	С	G	Н	К	Ø
130	230	175	113.5	220	5	5

Dimensions in in.

а	b	С	G	Н	К	Ø
5.11	9.05	6.89	4.46	8.66	0.19	0.19

Dimensions with 1 Option Card (1)



Dimensions in mm

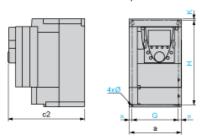
а	c1	G	Н	К	Ø
130	198	113.5	220	5	5

Dimensions in in.

а	c1	G	Н	К	Ø
5.11	7.79	4.46	8.66	0.19	0.19

⁽¹⁾ Option cards: I/O extension cards, communication cards or "Controller Inside" programmable card.

Dimensions with 2 Option Cards (1)



Dimensions in mm

а	c2	G	Н	К	Ø
130	221	113.5	220	5	5

Dimensions in in.

а	c2	G	Н	К	Ø
5.11	8.70	4.46	8.66	0.19	0.19

(1) Option cards: I/O extension cards, communication cards or "Controller Inside" programmable card.

Product data sheet Mounting and Clearance

ATV71H075N4

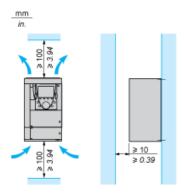
Mounting Recommendations

Depending on the conditions in which the drive is to be used, its installation will require certain precautions and the use of appropriate accessories.

Install the unit vertically:

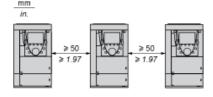
- · Avoid placing it close to heating elements
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate from the bottom to the top of the unit.

Clearance

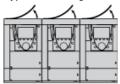


Mounting Types

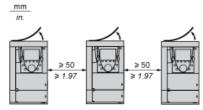
Type A Mounting



Type B Mounting



Type C Mounting



By removing the protective blanking cover from the top of the drive, the degree of protection for the drive becomes IP 20.

The protective blanking cover may vary according to the drive model (refer to the user guide).

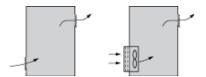
The protective blanking cover must be removed from ATV 71P ••• N4Z drives when they are mounted in a dust and damp proof enclosure.

Specific Recommendations for Mounting the Drive in an Enclosure

Ventilation

To ensure proper air circulation in the drive:

- · Fit ventilation grilles.
- Ensure that there is sufficient ventilation. If there is not, install a forced ventilation unit with a filter. The openings and/or fans must provide
 a flow rate at least equal to that of the drive fans (refer to the product characteristics).



- Use special filters with IP 54 protection.
- Remove the blanking cover from the top of the drive.

Dust and Damp Proof Metal Enclosure (IP 54)

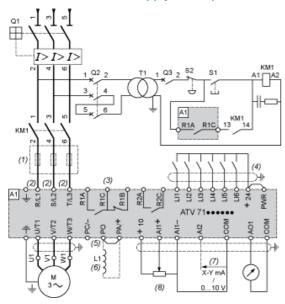
The drive must be mounted in a dust and damp proof enclosure in certain environmental conditions: dust, corrosive gases, high humidity with risk of condensation and dripping water, splashing liquid, etc.

This enables the drive to be used in an enclosure where the maximum internal temperature reaches 50°C.

ATV71H075N4

Wiring Diagram Conforming to Standards EN 954-1 Category 1, IEC/EN 61508 Capacity SIL1, in Stopping Category 0 According to IEC/EN 60204-1

Three-Phase Power Supply with Upstream Breaking via Contactor



A1 ATV71 drive

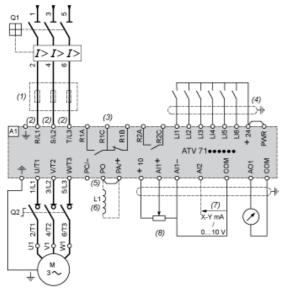
KM1 Contactor

- L1 DC choke
- Q1 Circuit-breaker
- Q2 GV2 L rated at twice the nominal primary current of T1
- Q3 GB2CB05
- S1, XB4 B or XB5 A pushbuttons
- S2
- T1 100 VA transformer 220 V secondary
- (1) Line choke (three-phase); mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (2) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (3) Fault relay contacts. Used for remote signalling of the drive status.
- (4) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (5) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (6) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (7) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (8) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Wiring Diagram Conforming to Standards EN 954-1 Category 1, IEC/EN 61508 Capacity SIL1, in Stopping Category 0 According to IEC/EN 60204-1

Three-Phase Power Supply with Downstream Breaking via Switch Disconnector

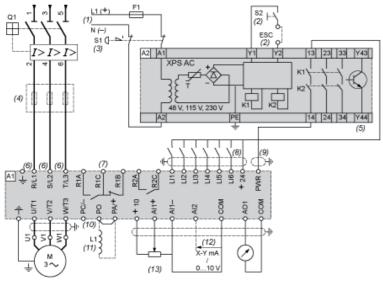


- A1 ATV71 drive
- L1 DC choke
- Q1 Circuit-breaker
- Q2 Switch disconnector (Vario)
- (1) Line choke (three-phase), mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (2) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (3) Fault relay contacts. Used for remote signalling of the drive status.
- (4) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (5) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (6) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (7) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (8) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Wiring Diagram Conforming to Standards EN 954-1 Category 3, IEC/EN 61508 Capacity SIL2, in Stopping Category 0 According to IEC/EN 60204-1

Three-Phase Power Supply, Low Inertia Machine, Vertical Movement

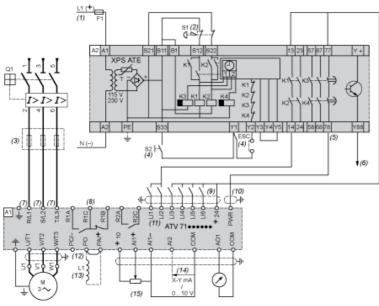


- A1 ATV71 drive
- A2 Preventa XPS AC safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal" function for several drives on the same machine. In this case, each drive must connect its PWR terminal to its + 24 V via the safety contacts on the XPS AC module. These contacts are independent for each drive.
- F1 Fuse
- L1 DC choke
- Q1 Circuit-breaker
- S1 Emergency stop button with 2 contacts
- S2 XB4 B or XB5 A pushbutton
- (1) Power supply: 24 Vdc or Vac, 48 Vac, 115 Vac, 230 Vac.
- (2) S2: resets XPS AC module on power-up or after an emergency stop. ESC can be used to set external starting conditions.
- (3) Requests freewheel stopping of the movement and activates the "Power Removal" safety function.
- (4) Line choke (three-phase), mandatory for and ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (5) The logic output can be used to signal that the machine is in a safe stop state.
- (6) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (7) Fault relay contacts. Used for remote signalling of the drive status.
- (8) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (9) Standardized coaxial cable, type RG174/U according to MIL-C17 or KX3B according to NF C 93-550, external diameter 2.54 mm /0.09 in., maximum length 15 m / 49.21 ft. The cable shielding must be earthed.
- (10) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (11) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (12) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (13) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Wiring Diagram Conforming to Standards EN 954-1 Category 3, IEC/EN 61508 Capacity SIL2, in Stopping Category 1 According to IEC/EN 60204-1

Three-Phase Power Supply, High Inertia Machine



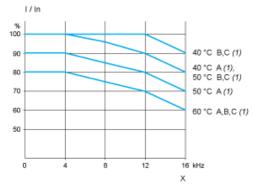
- A1 ATV71 drive
- A2 Preventa XPS ATE safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal"
- (5) safety function for several drives on the same machine. In this case the time delay must be adjusted on the drive controlling the motor that requires the longest stopping time. In addition, each drive must connect its PWR terminal to its + 24 V via the safety contacts on the XPS ATE module. These contacts are independent for each drive.
- F1 Fuse
- L1 DC choke
- Q1 Circuit-breaker
- S1 Emergency stop button with 2 N/C contacts
- S2 Run button
- (1) Power supply: 24 Vdc or Vac, 115 Vac, 230 Vac.
- (2) Requests controlled stopping of the movement and activates the "Power Removal" safety function.
- (3) Line choke (three-phase), mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (4) S2: resets XPS ATE module on power-up or after an emergency stop. ESC can be used to set external starting conditions.
- (5) For stopping times requiring more than 30 seconds in category 1, use a Preventa XPS AV safety module which can provide a maximum time delay of 300 seconds.
- (6) The logic output can be used to signal that the machine is in a safe state.
- (7) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (8) Fault relay contacts. Used for remote signalling of the drive status.
- (9) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (10) Standardized coaxial cable, type RG174/U according to MIL-C17 or KX3B according to NF C 93-550, external diameter 2.54 mm/0.09 in., maximum length 15 m/49.21 ft. The cable shielding must be earthed.
- (11) Logic inputs LI1 and LI2 must be assigned to the direction of rotation: LI1 in the forward direction and LI2 in the reverse direction.
- (12) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (13) Optional DC choke for ATV71H••••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (14) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (15) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

ATV71H075N4

Derating Curves

The derating curves for the drive nominal current (In) depend on the temperature, the switching frequency and the mounting type. For intermediate temperatures (e.g. 55°C), interpolate between 2 curves.



- X Switching frequency
- (1) Mounting type