Product data sheet Characteristics

ATV71HU15N4 variable speed drive ATV71 - 1.5kW-2HP -480V - EMC filter-graphic terminal

Product availability: Stock - Normally stocked in distribution facility

Main	
Range of product	Altivar 71
Product or component type	Variable speed drive
Product specific applica- tion	Complex, high-power machines
Component name	ATV71
Motor power kW	1.5 kWat 380480 V 3 phases
Motor power hp	2 hpat 380480 V 3 phases
Motor cable length	<= 164.04 ft (50 m) Shielded cable <= 328.08 ft (100 m) Unshielded cable
Power supply voltage	380480 V (- 1510 %)
Phase	3 phases
Line current	5.3 Afor 480 V 3 phases 1.5 kW / 2 hp 5.8 Afor 380 V 3 phases 1.5 kW / 2 hp
EMC filter	Integrated
Assembly style	With heat sink
Apparent power	3.8 kVAat 380 V 3 phases 1.5 kW / 2 hp
Prospective line Isc	<= 5 kA, 3 phases
Nominal output current	3.4 Aat 4 kHz 460 V 3 phases 1.5 kW / 2 hp 4.1 Aat 4 kHz 380 V 3 phases 1.5 kW / 2 hp
Maximum transient cur- rent	6.2 Afor 60 s 3 phases 1.5 kW / 2 hp 6.8 Afor 2 s 3 phases 1.5 kW / 2 hp
Output frequency	0.1599 Hz
Nominal switching fre- quency	4 kHz
Switching frequency	116 kHz adjustable 416 kHz with derating factor
Asynchronous motor control profile	ENA (Energy adaptation) system for unbalanced loads Flux vector control (FVC) with sensor (current vec- tor) Sensorless flux vector control (SFVC) (voltage or current vector) Voltage/frequency ratio (2 or 5 points)
Type of polarization	No impedance Modbus

Complementary

Product destination	Asynchronous motors Synchronous motors		
Power supply voltage limits	323528 V		
Power supply frequency	5060 Hz (- 55 %)		
Power supply frequency limits	47.563 Hz		
Speed range	1100 asynchronous motor in open-loop mode, without speed feedback 150 synchronous motor in open-loop mode, without speed feedback 11000 asynchronous motor in closed-loop mode with encoder feedback		
Speed accuracy	+/- 0.01 % of nominal speed 0.2 Tn to Tn torque variation in closed-loop mode with encoder feedback +/- 10 % of nominal slip 0.2 Tn to Tn torque variation without speed feedback		
Torque accuracy	+/- 15 % in open-loop mode, without speed feedback +/- 5 % in closed-loop mode with encoder feedback		
Transient overtorque	220 % of nominal motor torque +/- 10 %for 2 s 170 % of nominal motor torque +/- 10 %for 60 s every 10 minutes		



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	Adjustable Automatic whatever the load Not available in voltage/frequency ratio (2 or 5 points) Suppressable			
Diagnostic	1 LED red presence of drive voltage			
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-strand UL 508 cableat 104 °F (40 °C), copper 75 °C PVC With an IP21 or an IP31 kit: 3-strand IEC cableat 104 °F (40 °C), copper 70 °C PVC Without mounting kit: 1-strand IEC cableat 113 °F (45 °C), copper 70 °C PVC Without mounting kit: 1-strand IEC cableat 113 °F (45 °C), copper 90 °C XLPE/ EPR			
Electrical connection	Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, Ll1Ll6, PWR terminal 2.5 mm² / AWG 14 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB terminal 4 mm² / AWG 10			
Tightening torque	Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, PWR 5.31 lbf.in (0.6 N.m) L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB 12.39 lbf.in (1.4 N.m) / 12.3 lb.in			
Supply	Internal supply for reference potentiometer (1 to 10 kOhm), 10.5 V DC +/- 5 %, <= 10 mAfor overload and short-circuit protection Internal supply, 24 V DC, voltage limits 2127 V, <= 200 mAfor overload and short-circuit protection			
Analogue input number	2			
Analogue input type	 Al1-/Al1+ bipolar differential voltage +/- 10 V DC, input voltage 24 V max, resolution 11 bits + sign Al2 software-configurable current 020 mA, impedance 242 Ohm, resolution 11 bits Al2 software-configurable voltage 010 V DC, input voltage 24 V max, impedance 30000 Ohm, resolution 11 bits 			
Input sampling time	AI1-/AI1+ 2 ms, +/- 0.5 ms analog input(s) AI2 2 ms, +/- 0.5 ms analog input(s) LI1LI5 2 ms, +/- 0.5 ms discrete input(s) LI6 (if configured as logic input) 2 ms, +/- 0.5 ms discrete input(s)			
Response time	<= 100 ms in STO (Safe Torque Off) AO1 2 ms, tolerance +/- 0.5 ms analog output(s) R1A, R1B, R1C 7 ms, tolerance +/- 0.5 ms discrete output(s) R2A, R2B 7 ms, tolerance +/- 0.5 ms discrete output(s)			
Absolute accuracy precision	AI1-/AI1+ +/- 0.6 % for a temperature variation 60 °C AI2 +/- 0.6 % for a temperature variation 60 °C AO1 +/- 1 % for a temperature variation 60 °C			
Linearity error	Al1-/Al1+, Al2 +/- 0.15 % of maximum value AO1 +/- 0.2 %			
Analogue output number	1			
Analogue output type	AO1 software-configurable current 020 mA, impedance 500 Ohm, resolution 10 bits AO1 software-configurable logic output 10 V <= 20 mA AO1 software-configurable voltage 010 V DC, impedance 470 Ohm, resolution 10 bits			
Discrete output number	2			
Discrete output type	R1A, R1B, R1C configurable relay logic NO/NC, electrical durability 100000 cy- cles R2A, R2B configurable relay logic NO, electrical durability 100000 cycles			
Minimum switching current	Configurable relay logic 3 mAat 24 V DC			
Maximum switching current	R1, R2 on resistive load, 5 Aat 250 V AC, cos phi = 1, R1, R2 on resistive load, 5 Aat 30 V DC, cos phi = 1, R1, R2 on inductive load, 2 Aat 250 V AC, cos phi = 0.4, R1, R2 on inductive load, 2 Aat 30 V DC, cos phi = 0.4			
	R1, R2 on inductive load, 2 Aat 30 V DC, cos phi = 0.4,			

Discrete input type	LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Ohm
	PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO 13849-1 level d
	LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Ohm LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm
Discrete input logic	LI1LI5 positive logic (source), < 5 V (state 0), > 11 V (state 0)
	LI1LI5 negative logic (sink), > 16 V (state 0), < 10 V (state 0) LI6 (if configured as logic input) positive logic (source), < 5 V (state 0), > 11 V
	(state 0)
	LI6 (if configured as logic input) negative logic (sink), > 16 V (state 0), < 10 V (state 0)
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	Drive 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
	Motor motor phase break
	Motor power removal Motor thermal protection
nsulation resistance	> 1 mOhm at 500 V DC for 1 minute to earth
Frequency resolution	Analog input 0.024/50 Hz
Communication port protocol	Display unit 0.1 Hz CANopen
sommunication port protocol	Modbus
Connector type	1 RJ45 Modbus on front face
	1 RJ45 Modbus on terminal Male SUB-D 9 on RJ45 CANopen
Physical interface	2-wire RS 485 Modbus
Transmission frame	RTU Modbus
Transmission rate	20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps CANopen 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps Modbus on terminal 9600 bps, 19200 bps Modbus on front face
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	1247 Modbus 1127 CANopen
Method of access	Slave CANopen
Marking	CE
Operating position	Vertical +/- 10 degree
leight	9.06 in (230 mm)
Death	6.89 in (175 mm)
•	
Nidth	5.12 in (130 mm)
Vidth Product weight	6.61 lb(US) (3 kg)
Width Product weight Functionality	6.61 lb(US) (3 kg) Full
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card I/O extension card
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card I/O extension card I/O extension card Interbus-S communication card
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card I/O extension card Interbus-S communication card Interface card for encoder
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card I/O extension card Interbus-S communication card Interface card for encoder Modbus Plus communication card Modbus TCP communication card
Width Product weight Functionality Specific application	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card I/O extension card Interbus-S communication card Interface card for encoder Modbus Plus communication card Modbus TCP communication card Modbus/Uni-Telway communication card
Depth Width Product weight Functionality Specific application Option card	6.61 lb(US) (3 kg) Full Other applications CC-Link communication card Controller inside programmable card DeviceNet communication card Ethernet/IP communication card Fipio communication card I/O extension card Interbus-S communication card Interbus-S communication card Modbus Plus communication card Modbus TCP communication card

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	Conducted radio-frequency immunity test conforming to IEC 61000-4-6 level 3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 level 4 Electrostatic discharge immunity test conforming to IEC 61000-4-2 level 3 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 level 3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 1.2/50 µs - 8/20 µs surge immunity test conforming to IEC 61000-4-5 level 3
Standards	EN 55011 class A group 1 EN 61800-3 environments 1 category C2 EN 61800-3 environments 2 category C2 EN/IEC 61800-3 EN/IEC 61800-5-1 IEC 60721-3-3 class 3C1 IEC 60721-3-3 class 3S2 UL Type 1
Product certifications	CSA C-Tick GOST NOM 117 UL
Pollution degree	2 conforming to EN/IEC 61800-5-1
IP degree of protection	IP20
Vibration resistance	1.5 mm peak to peak (f = 313 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13200 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn 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	14122 °F (-1050 °C) without derating
Ambient air temperature for storage	-13158 °F (-2570 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating 3280.849842.52 ft (10003000 m) with current derating 1 % per 100 m

Ordering and shipping details

Category	22130 - ATV71 - 1/2 THRU 5HP DRIVES
Discount Schedule	CP4C
GTIN	00785901465881
Nbr. of units in pkg.	1
Package weight(Lbs)	9.7000000000011
Returnability	γ
Country of origin	ID

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
Substance 1	Lead and lead compounds, which is known to the State of California to cause can- cer and birth defects or other reproductive harm.
Substance 2	Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm.
More information	For more information go to www.p65warnings.ca.gov

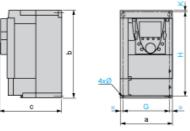
Contractual warranty

Warranty period	18 months	
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ATV71HU15N4

UL Type 1/IP 20 Drives

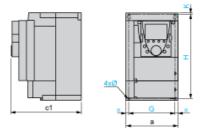
Dimensions without Option Card



Dimensions in mm

а	b	c	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

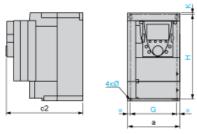
а	c1	G	н	к	Ø
130	198	113.5	220	5	5

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.

ATV71HU15N4

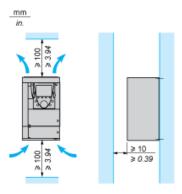
Mounting Recommendations

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

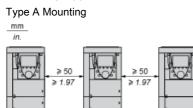
Install the unit vertically:

- · 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.

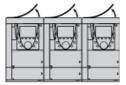
Clearance



Mounting Types



Type B Mounting



Type C Mounting

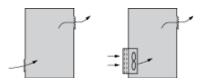
By removing the protective blanking cover from the top of the drive, the degree of protection for the drive becomes IP 20. The protective blanking cover may vary according to the drive model (refer to the user guide). The protective blanking cover must be removed from ATV 71P•••N4Z drives when they are 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)

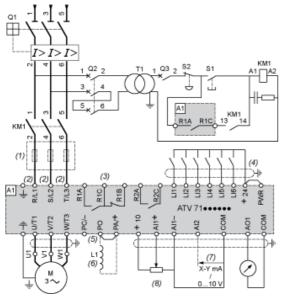
The drive must be mounted in a dust and damp proof enclosure in certain environmental conditions: dust, corrosive gases, high humidity with risk of condensation and dripping water, splashing liquid, etc.

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

ATV71HU15N4

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

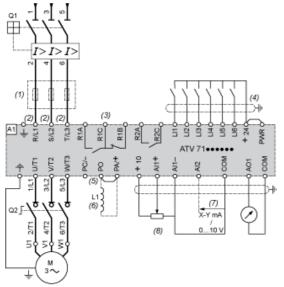


- A1 ATV71 drive
- KM1 Contactor
- L1 DC choke
- Q1 Circuit-breaker
- Q2 GV2 L rated at twice the nominal primary current of T1
- Q3 GB2CB05
- S1, XB4 B or XB5 A pushbuttons
- S2
- T1 100 VA transformer 220 V secondary
- (1) Line choke (three-phase); mandatory for ATV71HC11Y...HC63Y drives (except when 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

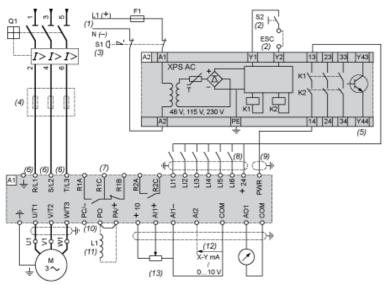


- A1 ATV71 drive
- L1 DC choke
- Q1 Circuit-breaker
- Q2 Switch disconnector (Vario)
- (1) Line choke (three-phase), mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (2) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, 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



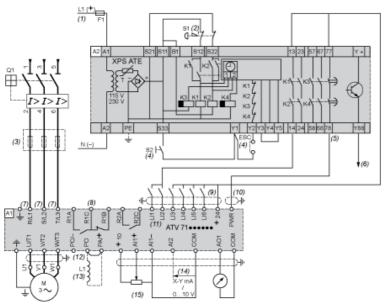
A1 ATV71 drive

- 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 L11 and L12 must be assigned to the direction of rotation: L11 in the forward direction and L12 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.

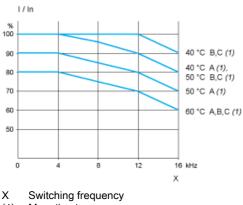
All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Product data sheet **Performance Curves**

ATV71HU15N4

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.



(1) Mounting type

X-ON Electronics

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