

(!) Discontinued - Service only

Variable speed drive, ATV71, 15kW, 20HP, 380 to 480V, 60.2dB, EMC filter, without graphic terminal, CANopen, Modbus

ATV71HD15N4Z

- Discontinued on: Dec 2, 2020
 - ! To be end-of-service on: Mar 31, 2028

Product availability: Non-Stock - Not normally stocked in distribution facility

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	15 kW, 3 phase 380480 V			
Maximum Horse Power Rating	20 hp, 3 phase 380480 V			
Maximum 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 phase			
Line current	39 A 480 V 3 phase 15 kW / 20 hp 48 A 380 V 3 phase 15 kW / 20 hp			
EMC filter	Integrated			
Assembly style	With heat sink			
Variant	Without remote graphic terminal			
Apparent power	31.6 kVA 380 V 3 phase 15 kW / 20 hp			
Prospective line Isc	22 kA 3 phase			
Nominal output current	27 A 4 kHz 460 V 3 phase 15 kW / 20 hp 33 A 4 kHz 380 V 3 phase 15 kW / 20 hp			
Maximum transient current	49.5 A 60 s 3 phase 15 kW / 20 hp 54.5 A 2 s 3 phase 15 kW / 20 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	Voltage/frequency ratio (2 or 5 points) ENA (Energy adaptation) system for unbalanced loads Sensorless flux vector control (SFVC) (voltage or current vector) Flux vector control (FVC) with sensor (current vector)			
Type of polarization	No impedance Modbus			

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Complementary

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 11000 asynchronous motor in closed-loop mode with encoder feedback 150 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	Adjustable Not available in voltage/frequency ratio (2 or 5 points) Automatic whatever the load Suppressable				
diagnostic	for 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 104 °F (40 °C), copper 75 °C / PVC With an IP21 or an IP31 kit 3 IEC cable 104 °F (40 °C), copper 70 °C / PVC Without mounting kit 1 IEC cable 113 °F (45 °C), copper 70 °C / PVC Without mounting kit 1 IEC cable 113 °F (45 °C), copper 90 °C / XLPE/EPR				
Electrical connection	Terminal 2.5 mm², AWG 14 Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, L11Ll6, PWR) Terminal 35 mm², AWG 2 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB)				
Tightening torque	5.3 lbf.in (0.6 N.m) Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, Ll1Ll6, PWR) 47.8 lbf.in (5.4 N.m), 47.7 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 2127 V), <200 mA overload and short-circuit protection				
Analogue input number	2				
Analogue input type	Al1-/Al1+ bipolar differential voltage +/- 10 V DC 24 V max 11 bits + sign Al2 software-configurable current 020 mA 242 Ohm 11 bits Al2 software-configurable voltage 010 V DC 24 V max 30000 Ohm 11 bits				
input sampling time	2 ms +/- 0.5 ms Al1-/Al1+) - analog 2 ms +/- 0.5 ms Al2) - analog 2 ms +/- 0.5 ms Ll1Ll5) - discrete 2 ms +/- 0.5 ms Ll6)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 % Al1-/Al1+) for a temperature variation 60 °C +/- 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 500 Ohm 10 bits AO1 software-configurable voltage 010 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	LI1LI5 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 06 1500 Ohm PWR safety input 24 V DC 1500 Ohm ISO 13849-1 level d				
Discrete input logic	Negative logic (sink) Ll1Ll5), > 16 V, < 10 V Positive logic (source) Ll1Ll5), < 5 V, > 11 V Negative logic (sink) Ll6)if configured as logic input, > 16 V, < 10 V Positive logic (source) Ll6)if configured as logic input, < 5 V, > 11 V				
Acceleration and deceleration ramps	S, U or customized Linear adjustable separately from 0.01 to 9000 s Automatic adaptation of ramp if braking capacity exceeded, by using resistor				
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)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	1127 CANopen 1247 Modbus				

Method of access	Slave CANopen
Marking	CE
Operating position	Vertical +/- 10 degree
Height	15.7 in (400 mm)
Depth	8.4 in (213 mm)
Width	9.06 in (230 mm)
Net Weight	28.7 lb(US) (13 kg)
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 Communication card Profibus DP Communication card Profibus DP

Environment

Noise level	60.2 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 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 61800-3 environments 1 category C3 IEC 61800-3 environments 2 category C3 IEC 60721-3-3 class 3C1 IEC 61800-5-1 IEC 60721-3-3 class 3S2 EN 55011 class A group 2 UL Type 1 IEC 61800-3				
Product Certifications	CSA UL C-tick NOM 117 GOST				
Pollution degree	2 IEC 61800-5-1				
IP degree of protection	IP20 on upper part without blanking plate on cover IEC 60529 IP20 on upper part without blanking plate on cover IEC 61800-5-1 IP21 IEC 60529 IP21 IEC 61800-5-1 IP41 on upper part IEC 60529 IP41 on upper part IEC 61800-5-1 IP54 on lower part IEC 60529 IP54 on lower part IEC 61800-5-1				
Vibration resistance	1 gn (f= 13200 Hz) conforming to IEC 60068-2-6 1.5 mm peak to peak (f= 313 Hz) conforming to IEC 60068-2-6				
Shock resistance	15 gn 11 ms IEC 60068-2-27				
Relative humidity	595 % without condensation IEC 60068-2-3 595 % without dripping water 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	US1CP4C22131
Discount Schedule	CP4C
GTIN	3389118064690
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.57 in (37.0 cm)
Package 1 Width	15.75 in (40.0 cm)
Package 1 Length	23.62 in (60.0 cm)
Package 1 Weight	50.7 lb(US) (23.0 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	1
Package 2 Height	28.94 in (73.5 cm)
Package 2 Width	23.62 in (60.0 cm)
Package 2 Length	31.50 in (80.0 cm)
Package 2 Weight	79.4 lb(US) (36.0 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	2
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	120.2 lb(US) (54.5 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

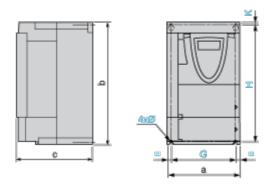
Materials and Substances	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
e Again	

○ Repack and remanufacture	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Variable Speed Drives without Graphic Display Terminal

Dimensions without Option Card



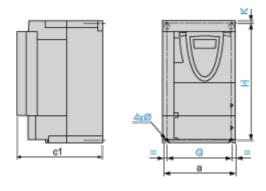
Dimensions in mm

а	b	С	G	Н	K	Ø
230	400	187	210	386	8	6

Dimensions in in.

а	b	С	G	Н	K	Ø
9.05	15.75	7.36	8.26	15.20	0.31	0.23

Dimensions with 1 Option Card (1)



Dimensions in mm

а	с1	G	Н	K	Ø
230	210	210	386	8	6

Dimensions in in

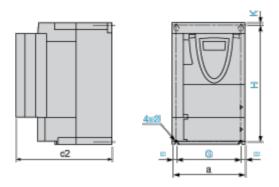
а	c1	G	Н	K	Ø
9.05	8.26	8.26	15.20	0.31	0.23

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

Dimensions with 2 Option Cards (1)

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Dimensions in mm

а	c2	G	Н	K	Ø
230	233	210	386	8	6

Dimensions in in.

а	c2	G	Н	K	Ø
9.05	9.17	8.26	15.20	0.31	0.23

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

Mounting and Clearance

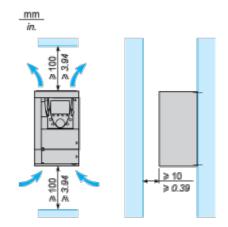
Mounting Recommendations

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:

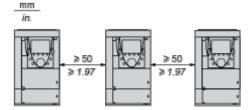
- Avoid placing it close to heating elements
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate from the bottom to the top of the unit.

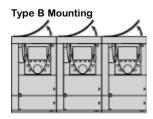
Clearance



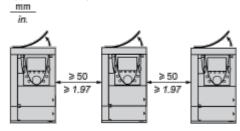
Mounting Types

Type A Mounting





Type 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).

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

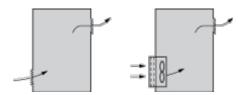
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Specific Recommendations for Mounting the Drive in an Enclosure

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.

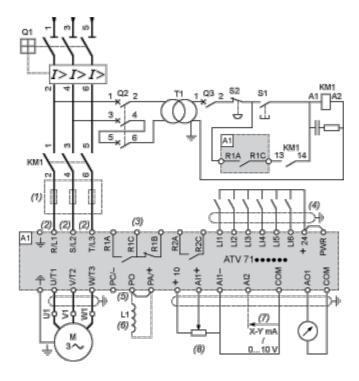
This enables the drive to be used in an enclosure where the maximum internal temperature reaches 50°C.

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Connections and Schema

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, S2 XB4 B or XB5 A pushbuttons

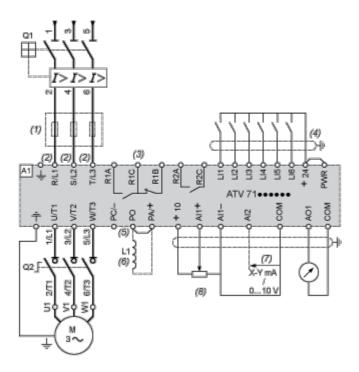
T1 100 VA transformer 220 V secondary

- (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.

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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

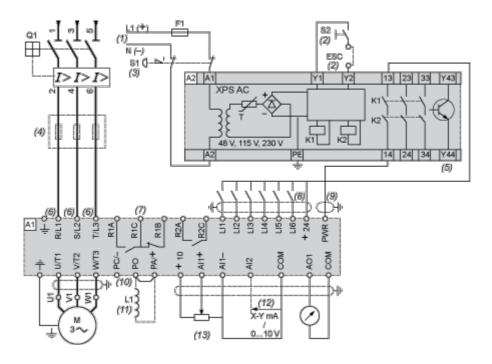
Three-Phase Power Supply with Downstream Breaking via Switch Disconnector



- 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.

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,

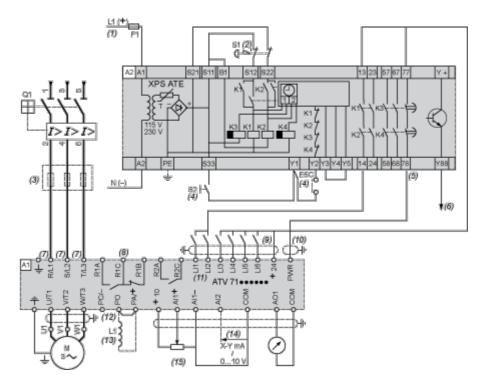
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HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.

- (12) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (13) Reference potentiometer.

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 (5) Preventa XPS ATE safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal" 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.

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- (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.

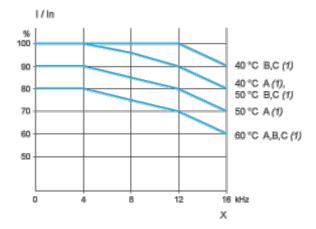
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Performance Curves

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

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