Specifications



① Discontinued

variable speed drive Altivar 61, 0.75kW, 1HP, 200 V to 240 V single or thee-phase, IP20 reinforced

ATV61H075M3

- Discontinued on: Jan 1, 2017
- (!) To be end-of-service on: Jan 1, 2025

Main

Range Of Product	Altivar 61
Product Or Component Type	Variable speed drive
Product Specific Application	Pumping and ventilation machine
Component Name	ATV61
Motor Power Kw	0.37 kW, single phase 200240 V 0.75 kW, 3 phase 200240 V
Maximum Horse Power Rating	1 hp, 3 phase 200240 V 0.5 hp, single phase 200240 V
Power Supply Voltage	200240 V - 1510 %
Supply Number Of Phases	Single phase 3 phase
Line Current	5.3 A 240 V 3 phase 0.75 kW / 1 hp 5.8 A 240 V single phase 0.37 kW / 0.5 hp 6.1 A 200 V 3 phase 0.75 kW / 1 hp 6.9 A 200 V single phase 0.37 kW / 0.5 hp
Emc Filter	Class C2 EMC filter integrated
Assembly Style	With heat sink
Apparent Power	1.4 kVA 240 V single phase 0.37 kW / 0.5 hp 2.2 kVA 240 V 3 phase 0.75 kW / 1 hp
Maximum Prospective Line Isc	5 kA 3 phase 5 kA single phase
Maximum Transient Current	3.6 A 60 s, single phase 5.7 A 60 s, 3 phase
Nominal Switching Frequency	12 kHz
Switching Frequency	116 kHz adjustable 1216 kHz with derating factor
Asynchronous Motor Control	Voltage/frequency ratio - Energy Saving, quadratic U/f Voltage/frequency ratio, 2 points Flux vector control without sensor, standard Voltage/frequency ratio, 5 points
Synchronous Motor Control Profile	Vector control without sensor, standard
Communication Port Protocol	Modbus CANopen
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.

Life Is On Schneider

Option Card

Communication card APOGEE FLN Communication card BACnet 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 Communication card LonWorks Communication card METASYS N2 Communication card Modbus Plus Communication card Modbus TCP Communication card Modbus/Uni-Telway Multi-pump card Communication card Profibus DP Communication card Profibus DP V1

Complementary

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Product Destination	Asynchronous motors Synchronous motors				
Power Supply Voltage Limits	170264 V				
Power Supply Frequency	5060 Hz - 55 %				
Power Supply Frequency Limits	47.563 Hz				
Continuous Output Current	3 A 12 kHz, 230 V - single phase 4.8 A 12 kHz, 230 V - 3 phase				
Output Frequency	0.1599 Hz				
Speed Range	1100 in open-loop mode, without speed feedback				
Speed Accuracy	+/- 10 % of nominal slip 0.2 Tn to Tn without speed feedback				
Torque Accuracy	+/- 15 % in open-loop mode, without speed feedback				
Transient Overtorque	130 % of nominal motor torque +/- 10 % 60 s				
Braking Torque	<= 125 % with braking resistor 30 % without braking resistor				
Regulation Loop	Frequency PI regulator				
Motor Slip Compensation	Automatic whatever the load Can be suppressed Not available in voltage/frequency ratio (2 or 5 points) Adjustable				
Diagnostic	for drive voltage 1 LED (red)				
Output Voltage	<= power supply voltage				
Electrical Isolation	Between power and control terminals				
Type Of Cable For Mounting In An Enclosure	With an IP21 or an IP31 kit 3 IEC cable 104 °F (40 °C), copper 70 °C / PVC With UL Type 1 kit 3 UL 508 cable 104 °F (40 °C), copper 75 °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, Ll1Ll6, PWR) Terminal 6 mm² / AWG 8 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB)				
Tightening Torque	5.31 lbf.in (0.6 N.m) Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, Ll1Ll6, PWR) 12.39 lbf.in (1.4 N.m), 12.3 lb.in L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+ PA, PB)				
Supply	Internal supply for reference potentiometer (1 to 10 kOhm) 10.5 V DC, +/- 5 %, <10 mA overload and short-circuit protection Internal supply 24 V DC 2127 V), <200 mA overload and short-circuit protection External supply 24 V DC 1930 V)				
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
Sampling Time	2 ms +/- 0.5 ms Al1-/Al1+) - analog input
	2 ms +/- 0.5 ms Al2) - analog input
	2 ms +/- 0.5 ms AO1) - analog output 2 ms +/- 0.5 ms LI1LI5) - discrete input
	2 ms +/- 0.5 ms L16)if configured as logic input - discrete input
Absolute Accuracy Precision	+/- 0.6 % AI1-/AI1+) 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+)
	+/- 0.15 % of maximum value Al2) +/- 0.2 % AO1)
Analogue Output Number	1
Analogue Output Type	AO1 software-configurable current 020 mA 500 Ohm 10 bits
	AO1 software-configurable voltage 010 V DC 470 Ohm 10 bits AO1 software-configurable logic output 10 V, 20 mA
Discrete Output Number	2
Discrete Output Type	Configurable relay logic R1A, R1B, R1C) NO/NC - 100000 cycles
T	Configurable relay logic R2A, R2B) NO - 100000 cycles
Maximum Response Time	<= 100 ms in STO (Safe Torque Off)
	R1A, R1B, R1C <= 7 ms +/- 0.5 ms P2A P2B <= 7 ms +/- 0.5 ms
	R2A, R2B <= 7 ms +/- 0.5 ms
Minimum Switching Current	3 mA 24 V DC configurable relay logic
Maximum Switching Current	R1, R2 2 A 250 V AC inductive, cos phi = 0.47 ms
	R1, R2 2 A 30 V DC inductive, cos phi = 0.4 7 ms R1, R2 5 A 250 V AC resistive, cos phi = 1 0 ms
	R1, R2 5 A 30 V DC resistive, cos phi = 1 0 ms
Discrete Input Number	7
Discrete Input Type	Programmable LI1LI5) 24 V DC <= 30 V)level 1 PLC - 3500 Ohm
	Switch-configurable LI6) 24 V DC <= 30 V)level 1 PLC - 3500 Ohm
	Switch-configurable PTC probe Ll6)06 - 1500 Ohm Safety input PWR) 24 V DC <= 30 V) - 1500 Ohm
Discrete Input Logic	Negative logic (sink) LI1LI5), > 16 V, < 10 V
	Positive logic (source) LI1LI5), < 5 V, > 11 V
	Negative logic (sink) LI6)if configured as logic input, > 16 V, < 10 V Positive logic (source) LI6)if configured as logic input, < 5 V, > 11 V
Acceleration And Deceleration	S, U or customized
Ramps	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
	Power removal 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

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				
Net Weight	6.61 lb(US) (3 kg)				
Width	5.12 in (130 mm)				
Height	9.06 in (230 mm)				
Depth	6.89 in (175 mm)				

Environment

Noise Level	43 dB 86/188/EEC				
Dielectric Strength	2830 V DC between earth and power terminals 4230 V DC between control and power terminals Conducted radio-frequency immunity test level 3 IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 Electrostatic discharge immunity test level 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Voltage dips and interruptions immunity test IEC 61000-4-11 EN 61800-3 environments 2 category C2 UL Type 1 IEC 60721-3-3 class 3S2 IEC 60721-3-3 class 3S2 IEC 61800-5-1 EN/IEC 61800-5-1 EN/IEC 61800-3 EN 61800-3 environments 1 category C2				
Electromagnetic Compatibility					
Standards					
Product Certifications	GOST UL C-tick CSA NOM 117 DNV				
Pollution Degree	2 EN/IEC 61800-5-1				
Degree Of Proctection	IP20 on upper part without blanking plate on cover EN/IEC 60529 IP20 on upper part without blanking plate on cover EN/IEC 61800-5-1 IP21 EN/IEC 60529 IP21 EN/IEC 61800-5-1 IP41 on upper part EN/IEC 60529 IP41 on upper part EN/IEC 61800-5-1 IP54 on lower part EN/IEC 61800-5-1 IP54 on lower part EN/IEC 61800-5-1				
Vibration Resistance	1 gn 13200 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 313 Hz)EN/IEC 60068-2-6				
Shock Resistance	15 gn 11 ms EN/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) 122140 °F (5060 °C) with derating factor)
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Operating Altitude	<= 3280.84 ft (1000 m) without derating

3280.84...9842.52 ft (1000...3000 m) with current derating 1 % per 100 m

Ordering and shipping details

Category	22136-ATV61 1/2 THRU 5 HP DRIVES			
Discount Schedule	CP4C			
Gtin	00785901433521			
Returnability	No			
Country Of Origin	ID			

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.45 in (24 cm)
Package 1 Width	9.45 in (24 cm)
Package 1 Length	12.20 in (31 cm)
Package 1 Weight	9.49 lb(US) (4.304 kg)
Unit Type Of Package 2	S06
Number Of Units In Package 2	10
Package 2 Height	28.94 in (73.5 cm)
Package 2 Width	31.50 in (80 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	123.55 lb(US) (56.04 kg)

Contractual warranty

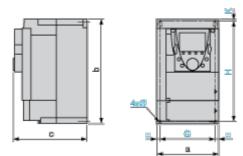
Warranty

18 months

Dimensions Drawings

UL Type 1/IP 20 Drives

Dimensions without Option Card



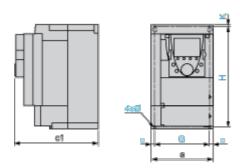
Dimensions in mm

а	b	с	G	Н	Κ	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

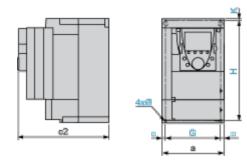
а	c1	G	Н	Κ	Ø
130	198	113.5	220	5	5

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	Κ	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.

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Mounting and Clearance

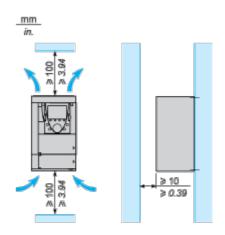
Mounting Recommendations

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

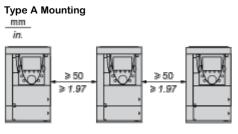
Install the unit vertically:

- 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.

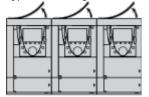
Clearance



Mounting Types

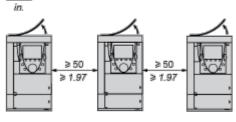


Type B Mounting



Type C Mounting

mm



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).

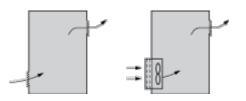
ATV61H075M3

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)

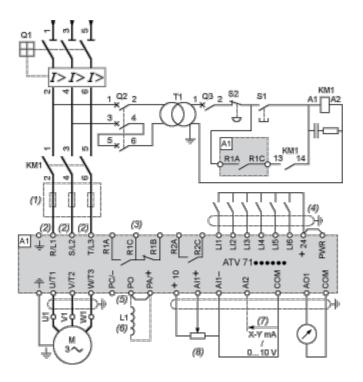
The drive must be mounted in a dust and damp proof enclosure in certain environmental conditions: dust, corrosive gases, high humidity with risk of condensation and dripping water, splashing liquid, etc. This enables the drive to be used in an enclosure where the maximum internal temperature reaches 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 ATV61 drive

- 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 ATV61HC11Y...HC80Y drives (except when a special transformer is used (12-pulse)).

(2) For ATV61HC50N4, ATV61HC63N4 and ATV61HC50Y...HC80Y drives, 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 ATV61HC11Y...HC80Y drives.

(6) Optional DC choke for ATV61H•••M3, ATV61HD11M3X...HD45M3X and ATV61H075N4...HD75N4 drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV61HD55M3X...HD90M3X, ATV61HD90N4...HC63N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it. For ATV61W•••N4 and ATV61W•••N4C drives, the DC choke is integrated.

 $(7) \qquad \mbox{Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.}$

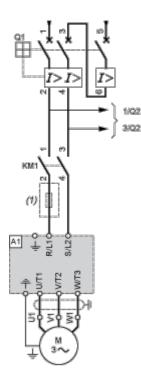
(8) Reference potentiometer.

KM1 Contactor

ATV61H075M3

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

Power Section for Single-Phase Power Supply



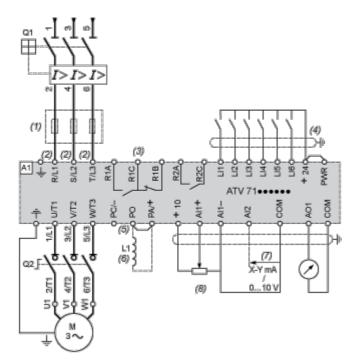
- A1 ATV61 drive
- KM1 Contactor
- Q1 Circuit-breaker
- Q2 GV2 L rated at twice the nominal primary current of T1

(1) Line Choke (single-phase); mandatory for ATV61HU40M3...HU75M3 drives with a 220...240 V 50/60 Hz single-phase power supply.

ATV61H075M3

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 ATV61 drive
- L1 DC choke
- Q1 Circuit-breaker
- Q2 Switch disconnector (Vario)

(1) Line choke (three-phase), mandatory for ATV61HC11Y...HC80Y drives (except when a special transformer is used (12-pulse)).

(2) For ATV61HC50N4, ATV61HC63N4 and ATV61HC50Y...HC80Y drives, 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 ATV61HC11Y...HC80Y drives.

(6) Optional DC choke for ATV61H•••M3, ATV61HD11M3X...HD45M3X and ATV61H075N4...HD75N4 drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV61HD55M3X...HD90M3X, ATV61HD90N4...HC63N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it. For ATV61W•••N4 and ATV61W•••N4C drives, the DC choke is integrated.

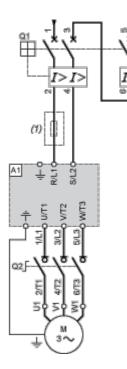
(7) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.

(8) Reference potentiometer.

ATV61H075M3

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

Power Section for Single-Phase Power Supply

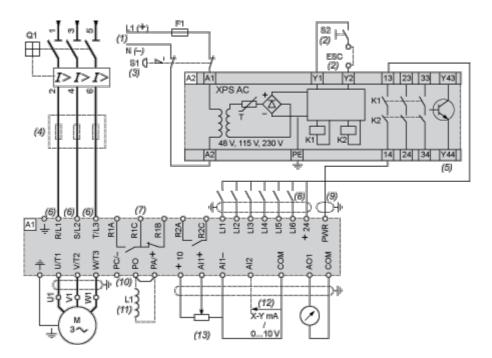


- A1 ATV61 drive
- Q1 Circuit-breaker
- Q2 Switch disconnector (Vario)

(1) Line Choke (single-phase); mandatory for ATV61HU40M3...HU75M3 drives with a 220...240 V 50/60 Hz single-phase power supply.

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 ATV61 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, 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 ATV61HC11Y...HC80Y 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 ATV61HC50N4, ATV61HC63N4 and ATV61HC50Y...HC80Y drives, 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 ATV61HC11Y...HC80Y drives.

(11) Optional DC choke for ATV61H•••M3, ATV61HD11M3X...HD45M3X and ATV61H075N4...HD75N4 drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV61HD55M3X...HD90M3X,

ATV61H075M3

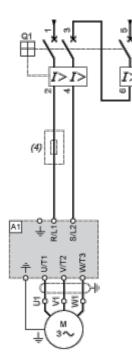
ATV61HD90N4...HC63N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it. For ATV61W•••N4 and ATV61W•••N4C drives, the DC choke is integrated.

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

ATV61H075M3

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

Power Section for Single-Phase Power Supply



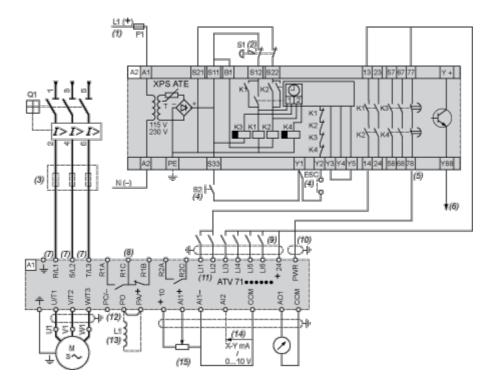
A1 ATV61 drive

Q1 Circuit-breaker

(4) Line Choke (single-phase); mandatory for ATV61HU40M3...HU75M3 drives with a 220...240 V 50/60 Hz single-phase power supply.

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 ATV61 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 contacts
- S2 XB4 B or XB5 A pushbutton
- (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 ATV61HC11Y...HC80Y 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) The logic output can be used to signal that the machine is in a safe state.

(6) 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.

(7) For ATV61HC50N4, ATV61HC63N4 and ATV61HC50Y...HC80Y drives, refer to the power terminal connections diagram.

(8) Fault relay contacts. Used for remote signalling of the drive status.

ATV61H075M3

(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 ATV61HC11Y...HC80Y drives.

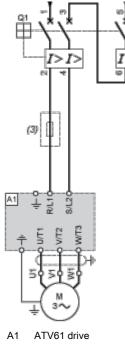
(13) Optional DC choke for ATV61H•••M3, ATV61HD11M3X...HD45M3X and ATV61H075N4...HD75N4 drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV61HD55M3X...HD90M3X, ATV61HD90N4...HC63N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it. For ATV61W•••N4 and ATV61W•••N4C drives, the DC choke is integrated.

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

ATV61H075M3

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

Power Section for Single-Phase Power Supply



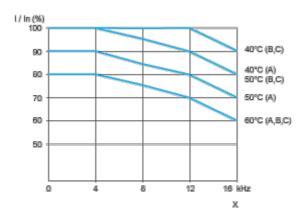
Q1 Circuit-breaker

(3) Line Choke (single-phase); mandatory for ATV61HU40M3...HU75M3 drives with a 220...240 V 50/60 Hz single-phase power supply.

Performance Curves

Derating Curves

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



X Switching frequency