Specifications



variable speed drive ATV61 - 4kW 5HP - 380...480V - IP20

ATV61HU40N4Z

- Discontinued on: 01 January 2017
- I To be end-of-service on: 01 January 2025

Discontinued - Service only

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	4 kW, 3 phase 380480 V
Maximum Horse Power Rating	5 hp, 3 phase 380480 V
Power supply voltage	380480 V - 1510 %
Supply number of phases	3 phase
Line current	11.5 A 480 V 3 phase 4 kW / 5 hp 14.1 A 380 V 3 phase 4 kW / 5 hp
EMC filter	Level 3 EMC filter
Variant	Without remote graphic terminal
Assembly style	With heat sink
Apparent power	9.3 kVA 380 V 3 phase 4 kW / 5 hp
Maximum prospective line lsc	5 kA 3 phase
Maximum transient current	12.6 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, 5 points Voltage/frequency ratio - Energy Saving, quadratic U/f Voltage/frequency ratio, 2 points Flux vector control without sensor, standard
Synchronous motor control profile	Vector control without sensor, standard
Communication Port Protocol	Modbus CANopen
Type of polarization	No impedance Modbus
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	
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
Continuous output current	7.6 A 12 kHz, 460 V - 3 phase 10.5 A 12 kHz, 380 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	Can be suppressed Not available in voltage/frequency ratio (2 or 5 points) Automatic whatever the load 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
Type of cable for mounting in an	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
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Type of cable for mounting in an enclosure Electrical connection	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 Terminal 2.5 mm² / AWG 14 AI1-/AI1+, AI2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, PWR) Terminal 6 mm² / AWG 8 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB) 5.31 lbf.in (0.6 N.m) AI1-/AI1+, AI2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, PWR)
Type of cable for mounting in an enclosure Electrical connection Tightening torque	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 Terminal 2.5 mm² / AWG 14 Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, PWR) Terminal 6 mm² / AWG 8 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB) 5.31 lbf.in (0.6 N.m) Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, 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) 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
Type of cable for mounting in an enclosure Electrical connection Tightening torque Supply	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 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) 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) 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)
Type of cable for mounting in an enclosure Electrical connection Tightening torque Supply Analogue input number	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 Terminal 2.5 mm² / AWG 14 Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, L11Ll6, PWR) Terminal 6 mm² / AWG 8 L1/R, L2/S, L3/T, U/T1, V/T2, W/T3, PC/-, PO, PA/+, PA, PB) 5.31 lbf.in (0.6 N.m) Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, L11Ll6, 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) Internal supply for reference potentiometer (1 to 10 kOhm) 10.5 V DC, +/- 5 %, <10 mA overload and short-circuit protection
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Type of cable for mounting in an enclosure Electrical connection Tightening torque Supply Analogue input number Analogue input type Sampling time	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 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 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) 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) Internal supply for reference potentiometer (1 to 10 kOhm) 10.5 V DC, +/- 5 %, <10 mA overload and short-circuit protection

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 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 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 = 0.4 7 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 LI6)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 ramps	Automatic adaptation of ramp if braking capacity exceeded, by using resistor S, U or customized 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 Overcurrent between output phases and earth drive Overcurrent between output phases and earth 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	8.82 lb(US) (4 kg)
Width	6.10 in (155 mm)
Height	10.24 in (260 mm)

Noise level	54.5 dB 86/188/EEC
Dielectric strength	3535 V DC between earth and power terminals 5092 V DC between control and power terminals
Electromagnetic compatibility	Conducted radio-frequency immunity test level 3 IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 Electrostatic discharge immunity test level 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3 Voltage dips and interruptions immunity test IEC 61000-4-11
Standards	EN 55011 class A group 1 IEC 60721-3-3 class 3S2 EN 61800-3 environments 2 category C2 EN/IEC 61800-3 UL Type 1 EN 61800-3 environments 1 category C2 EN/IEC 61800-5-1 IEC 60721-3-3 class 3C1
Product Certifications	C-tick UL NOM 117 CSA DNV GOST
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 60529 IP54 on lower part EN/IEC 61800-5-1
Vibration resistance	1 gn 13…200 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 3…13 Hz)EN/IEC 60068-2-6
Shock resistance	15 gn 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 3280.849842.52 ft (10003000 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	3389119205221
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.01 in (30.5 cm)
Package 1 Width	12.36 in (31.4 cm)
Package 1 Length	15.04 in (38.2 cm)

Contractual warranty

Warranty

18 months

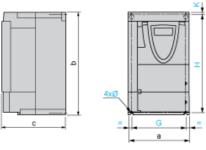


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Dimensions Drawings

Variable Speed Drives without Graphic Display Terminal

Dimensions without Option Card



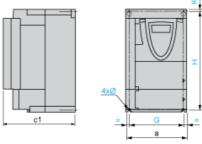
Dimensions in mm

а		b	c	G	Н	К	Ø
155		260	161	138	249	4	5

Dimensions	in	in.

а	b	c	G	Н	к	Ø
6.10	10.24	6.33	5.43	9.80	0.15	0.19

Dimensions with 1 Option Card (1)

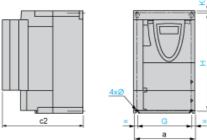


Dimensions in mm

а	c1	G	н	к	Ø		
155	184	138	249	4	5		
Dimensions in in.							
а	c1	G	н	к	Ø		
6.10	7.24	5.43	9.80	0.15	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

155 207 138 249 4 5	а	c2	G	Н	К	Ø
	155	207	138	249	4	5

Dimensions	in	in.	
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а	c2	G	н	к	Ø
6.10	8.15	5.43	9.80	0.15	0.19

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

Life Is On Schneider

ATV61HU40N4Z

Mounting and Clearance

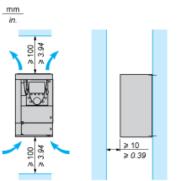
Mounting Recommendations

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:

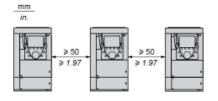
- Avoid placing it close to heating elements
- Leave sufficient free space to ensure that the air required for cooling purposes can circulate from the bottom to the top of the unit.

Clearance

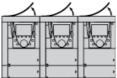


Mounting Types

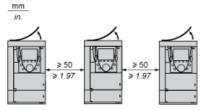
Type A Mounting



Type 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).



ATV61HU40N4Z

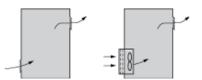
Mounting and Clearance

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 a



- 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.

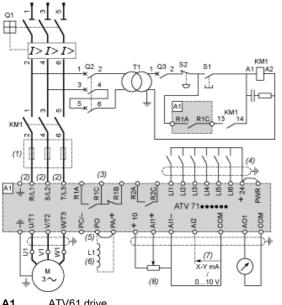
This enables the drive to be used in an enclosure where the maximum internal temperature reaches 50°C.

ATV61HU40N4Z

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 KM1 ATV61 drive

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

Т1 100 VA transformer 220 V secondary

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

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

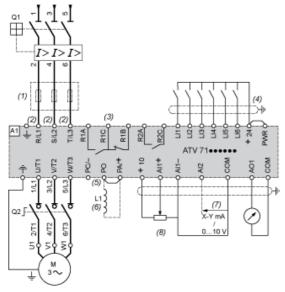
(8) Reference potentiometer.

ATV61HU40N4Z

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 Downstream Breaking via Switch Disconnector



A1 ATV61 drive

L1 DC choke

Q1 Circuit-breaker Q2 Switch disconnector (Vario)

(1) (2)

Switch disconnector (Vario) Line choke (three-phase), mandatory for ATV61HC11Y...HC80Y drives (except when a special transformer is used (12-pulse)). For ATV61HC50N4, ATV61HC63N4 and ATV61HC50Y...HC80Y drives, refer to the power terminal connections diagram. Fault relay contacts. Used for remote signalling of the drive status. Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supp There is no PO terminal on ATV61HC11Y...HC80Y drives. Optional DC choke for ATV61H-•••M3, ATV61HD11M3X...HD45M3X and ATV61H075N4...HD75N4 drives. Connected in place of the strap betw Setting application of the strap betw (3) (4) (5) (6)

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

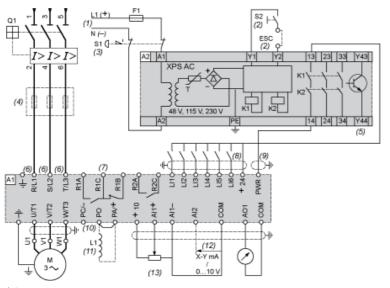
(8) Reference potentiometer.

ATV61HU40N4Z

Connections and Schema

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

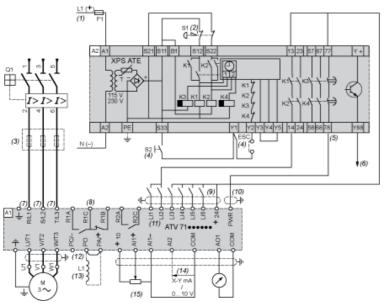
- A2 Preventa XPS AC safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal" function for F1 Fuse
- L1 DC choke
- Q1 Circuit-breaker
- **S1** Emergency stop button with 2 contacts
- **S**2 XB4 B or XB5 A pushbutton
- (1) Power supply: 24 Vdc or Vac, 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.
- Line choke (three-phase), mandatory for and ATV61HC11Y...HC80Y drives (except when a special transformer is used (12-pulse)).
- The logic output can be used to signal that the machine is in a safe stop state.
- (4) (5) (6) (7) For ATV61HC50N4, ATV61HC63N4 and ATV61HC50Y...HC80Y drives, refer to the power terminal connections diagram.
- Fault relay contacts. Used for remote signalling of the drive status.
- Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supp 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., maxir (8) (9)
- (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 betw
- (12) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (13) Reference potentiometer.

ATV61HU40N4Z

Connections and Schema

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) F1 Preventa XPS ATE safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal" safety fu Fuse

- L1 DC choke
- Q1 Circuit-breaker

S1 Emergency stop button with 2 contacts

S2 XB4 B or XB5 A pushbutton

Power supply: 24 Vdc or Vac, 115 Vac, 230 Vac.

(1) (2) (3) Requests controlled stopping of the movement and activates the "Power Removal" safety function.

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

S2: resets XPS ATE module on power-up or after an emergency stop. ESC can be used to set external starting conditions.

(4) (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 del (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.

(9) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supp

- (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., maxim Logic inputs LI1 and LI2 must be assigned to the direction of rotation: LI1 in the forward direction and LI2 in the reverse direction.
- (11) (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 betw (14) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.

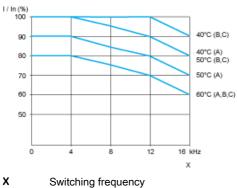
(15) Reference potentiometer.

ATV61HU40N4Z

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.



Recommended replacement(s)

ATV61HU40N4Z is replaced by:



Variable speed drive, Altivar Process ATV600, ATV630, 4kW/5 hp, 380...480 V, IP21/UL type 1 ATV630U40N4