Specifications



Variable speed drive, Altivar Machine ATV320, 0.37 kW, 200...240 V, 1 phase, enclosed, IP65

ATV320U04M2WS

Main

wain	
Range of product	Altivar Machine ATV320
Product or component type	Variable speed drive
Product specific application	Complex machines
Variant	With disconnect switch
Format of the drive	Enclosed
Mounting mode	Wall mount
Communication port protocol	Modbus serial CANopen
Option card	Communication module, CANopen Communication module, EtherCAT Communication module, Profibus DP V1 Communication module, PROFINET Communication module, Ethernet Powerlink Communication module, EtherNet/IP Communication module, DeviceNet
[Us] rated supply voltage	200240 V - 1510 %
Nominal output current	3.3 A
Motor power kW	0.37 kW for heavy duty
EMC filter	Class C2 EMC filter integrated
IP degree of protection	IP65

Complementary

Discrete input number	7
Discrete input type	STO safe torque off, 24 V DC, impedance: 1.5 kOhm DI1DI6 logic inputs, 24 V DC (30 V) DI5 programmable as pulse input: 030 kHz, 24 V DC (30 V)
Discrete input logic	Positive logic (source) Negative logic (sink)
Discrete output number	3
Discrete output type	Open collector DQ+ 0…1 kHz 30 V DC 100 mA Open collector DQ- 0…1 kHz 30 V DC 100 mA
Analogue input number	3
Analogue input type	Al1 voltage: 010 V DC, impedance: 30 kOhm, resolution 10 bits Al2 bipolar differential voltage: +/- 10 V DC, impedance: 30 kOhm, resolution 10 bits Al3 current: 020 mA (or 4-20 mA, x-20 mA, 20-x mA or other patterns by configuration), impedance: 250 Ohm, resolution 10 bits
Analogue output number	1



Analogue output type Subtract originate current A01 0. 20 for Ampedateo B00 Chris resolution 10 bits Reiny output type Configuentie entry logits P11 10. 10. Christical analolity 10000 cycles Configuentie entry logits P11 10. Christical analolity 10000 cycles Configuentie entry logits P11 10. Christical analolity 10000 cycles Mainum switching current Reiny output 15, R15 (Christical analolity 10000 cycles Configuentie entry logits P11 10. Christical analolity 10000 cycles Mainum switching current Reiny output 15, R15 (Christical analolity 10000 cycles Configuentie entry logits P11 10. All 200 VAC Reiny output 15, R15 (Christical Correlative bad, doi ph = 1: 3. All 200 VAC Reiny output 18, R15, R15, R25, R25, Correlative bad, doi ph = 1: 3. All 200 VAC Method of access Bure ChAbpen Entry output 128, R25 on relative bad, doi ph = 1: 3. All 200 VAC Audornt operation possibiti Ture Ture Augorith Carrent Relay output R1A, R16, R16, R26, R26, Christical R26, Chri		
Configuate rely space R18 NC meterical durability 100000 cycles Configuate rely space R18 NC meterical durability 100000 cycles Configuate rely type R2C Rely output R1A, R18, R10 c R2A, R2C on indicative load, cop ph = 1.3 Ad 250 V AC Maximum switching current Rely output R1A, R18, R10, R2A, R2C on indicative load, cop ph = 0.4 and LR = 7 ms: 2 A ad 20 V Maximum switching current Rely output R1A, R18, R10, R2A, R2C on indicative load, cop ph = 0.4 and LR = 7 ms: 2 A ad 20 V Maximum switching current Rely output R1A, R18, R10, R2A, R2C on indicative load, cop ph = 0.4 and LR = 7 ms: 2 A ad 20 V Maximum switching current Rely output R1A, R18, R10, R2A, R2C on indicative load, cop ph = 0.4 and LR = 7 ms: 2 A ad 20 V Maximum switching current Rely output R1A, R18, R10, R2A, R2C on indicative load, cop ph = 0.4 and LR = 7 ms: 2 A ad 20 V Maximum switching current Rely output R1A, R18, R10, R2A, R2C in matchine load and 0 VDC Maximum switching current Rely output R1A, R18, R10, R2A, R2C in matchine load and 0 VDC Maximum switching current Rely output R1A, R18, R10, R2A, R2C in matchine load and 0 VDC Maximum switching current Rely output R1A, R18, R10, R2A, R2C in matchine load Adjut R1A, R18, R10, R2A, R2C in matchine load Adjut R1A, R18, R10, R2A, R2C in matchine load Adjut R1A, R1B, R10, R2A, R2C in R2C in RRIA, R1B, R10, R2A, R2C in RRIA, R1B, R10, R2A, R2C in RRIA, R1B, R10, R2A, R2C in RRIA, R1B, R1A, R1B, R10, R2A, R2C in RRIA, R1B, R1A	Analogue output type	
Relay couplit RA, RHB, RT, CA, RHB, RT, CA, RAC, Con incluction couplit = 0.4 and LR = 7 ms: 2. A at 260 V Relay couplit RA, RHB, RT, CA, RAC, Con incluction couplit = 0.4 and LR = 7 ms: 2. A at 260 V Relay couplit RA, RHB, RT, CA, RAC, Con incluction couplit = 0.4 and LR = 7 ms: 2. A at 260 V Minimum switching current Relay couplit RA, RHB, RT, CA, RAC, S mA at 24 V DC Method of access Silve CANpen 4 quadrant operation possible True Asynchronous motor control Voltage/feacurery ratio, 5 noints Prolite Voltage/feacurery ratio, 5 noints Maximum output frequency 0.699 MHz Transient overtorque 70200 % of nominal motor torque Acceleration and deceleration rampe Cultor output on the provide control without sensor profile Maximum output frequency 0.699 MHz Transient overtorque 70200 % of nominal motor torque Acceleration and deceleration rampe Linear U S CUS Switching frequency 216 KHz adjutable 10 KHz adjutable Autoratio witable witableser the total - Adjutable company output of the provide ramp adaptation - Acceleration and settered in the total - Adjutable cologies output output of the provide ramp output output output output of the provide ramp output output o	Relay output type	Configurable relay logic R1B 1 NC electrical durability 100000 cycles Configurable relay logic R1C Configurable relay logic R2A 1 NO electrical durability 100000 cycles
Method of access Slave CANopen 4 quadrant operation possible True Asynchronous motor control profile Yelage/frequency ratio, 5 points How sector control without senser, standard Voltage/frequency ratio, 2 points Synchronous motor control profile Vector control without senser, Energy Saving, usdrate: U/F Flux vector control without sensor profile Maximum output frequency 0.599 kHz Transient overtorque 170200 % of nominal motor torque Acceleration and deceleration ramps Linear U S Cuis Witch self prompensation Receleration/deceleration ramp adaptation Acceleration/deceleration and/motor torque Motor slip compensation Acceleration/deceleration and/motor (2 or 5 points) Switching frequency 216 HHz adjustable 4300 % Hot available in collage/frequency ratio (2 or 5 points) Switching frequency 416 HHz adjustable 4300 % Braking to standstill By DC injection Braking to standstill By DC injection Maximum input current 5.9.A at 200 V (heavy duty) 4.9 at 240 V (heavy duty) Maximum input current 5.9.A Maximum output voltage 240 V Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency	Maximum switching current	Relay output R1A, R1B, R1C on resistive load, cos phi = 1: 3 A at 30 V DC Relay output R1A, R1B, R1C, R2A, R2C on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 250 V AC Relay output R1A, R1B, R1C, R2A, R2C on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 30 V DC Relay output R2A, R2C on resistive load, cos phi = 1: 5 A at 250 V AC
4 quadrant operation possible True Asynchronous motor control profile Voltage/frequency ratio, 5 points Flux vector control without sensor ; standard Vottage/frequency ratio, Energy Saving voltage/frequency ratio, Energy Saving voltage/frequency ratio, 2 points Synchronous motor control profile Vector control without sensor profile Maximum output frequency 0.999 kHz Transient overtorque 170200 % of nominal motor torque Acceleration and deceleration ramps Linear U S SUS Ramp switching Acceleration/deceleration automatic stop with DC injection Motor slip compensation ramps Automatic whatever the load Adjustable on voltage/frequency ratio (2 or 5 points) Switching frequency 218 kHz quistable 416 kHz with derating factor Nominal switching frequency 4 kHz Braking to standstill By DC injection Brake chopper integrated True Maximum input current 5.9 A Maximum output voltage 240 V Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5% Prospective line lac 1 kA Base load current at high overload 6.9 A Vith safety function Safe brake, frequency (SIGS) 5% Prospective line lac 1 kA </td <td>Minimum switching current</td> <td>Relay output R1A, R1B, R1C, R2A, R2C: 5 mA at 24 V DC</td>	Minimum switching current	Relay output R1A, R1B, R1C, R2A, R2C: 5 mA at 24 V DC
Asynchronous motor control profile Voltage/frequency ratio. 5 points Flux vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector control without sensor : Entry Saving, quadratic Ulf Flox, vector : entry Saving, quadratic entry Saving, quadratic Ulf Flox, vector : entry Saving, quadratic entry Saving, quadratis entry Saving, quadratic entry Saving, quadra	Method of access	Slave CANopen
profile Fitx vector control without sensor, standard Votage/frequency raito. Energy Saving, audiatic Uf Synchronous motor control Vector control without sensor Profile Vector control without sensor Synchronous motor control Vector control without sensor Profile 170200 % of nominal motor torque Acceleration and deceleration Unear Synchronous motor control Unear VS CUS Rango suitching Acceleration control without sensor Acceleration and deceleration Unear Synchronous motor control User Rango suitching Acceleration/deceleration ramp adaptation Acceleration/deceleration automatic stop with DL injection Motor silp compensation Adiamatic veloticer the load Adjustatible in voltage/frequency ratio (2 or 5 points) Switching frequency 216 kHz adjustable Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 240 V (heavy duty) 4.3 At 240 V (heavy duty) 4.9 A at 240 V (heavy duty) Apparent power 1.2 kA at 240 V (heavy duty) Relative symmet	4 quadrant operation possible	True
profile 0.599 kHz Transient overtorque 170200 % of nominal motor torque Acceleration and deceleration ramps Linear U S CUS CUS CUS CUS CUS CUS CUS CUS CUS	-	Flux vector control without sensor, standard Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor - Energy Saving
Transient overtorque 170200 % of nominal motor torque Acceleration and deceleration Linear y S CUS Ramp switching Acceleration/deceleration automatic stop with DC injection Motor slip compensation Automatic whatever the load Adjustable 0300 % Not available in voltage/frequency ratio (2 or 5 points) Switching frequency 216 kHz adjustable 414 kHz with derating factor Nominal switching frequency 4 kHz Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) 4.9 A at 240 V (heavy duty) 4.9 A at 240 V (heavy duty) Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network 5 % Prospective line los 1 kA Base load current at high overfoad 6.9 A overfoad Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safe brake management (SBC/SBT) False With safety function Safe brake management (SBC/SBT) False <td></td> <td>Vector control without sensor</td>		Vector control without sensor
Acceleration and deceleration ramps Linear U S CUS CUS CUS Ramp switching Acceleration ramp adaptation Acceleration/deceleration automatic stop with DC injection Motor slip compensation Acceleration/deceleration automatic stop with DC injection Motor slip compensation Automatic whatever the load Adjustable 0.300 % Not available in voltage/frequency ratio (2 or 5 points) Switching frequency 216 kHz adjustable 0.300 % Not available in voltage/frequency ratio (2 or 5 points) Switching frequency 418 kHz with derating factor Nominal switching frequency 4 kHz Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) As at 240 V (heavy duty) 4.9 A at 240 V (heavy duty) Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A overload 5.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safe brake management (SBC/SBT) False	Maximum output frequency	0.599 kHz
ramps U S CUS Ramp switching Acceleration/deceleration automatic stop with DC injection Motor slip compensation Automatic whatever the load Adjustable 0300 % Not available in voltage/frquency ratio (2 or 5 points) Switching frequency 216 kHz adjustable A16 kHz adjustable 416 kHz Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) 4.9 at 240 V (heavy duty) 4.9 at 240 V (heavy duty) Asymmetric network 5.9 A Maximum input current 5.9 A Shear (1 a Current) 5.9 A V 9.0 at 240 V (heavy duty) Asymmetric network 5.% Frequency 5060 Hz Relative symmetric network 5 % Prospective line lsc 1 kA Base load current at high overfoad 6.9 A Overfoad Self-ccoled: 30 W at 200 V, switching frequency 4 kHz With safety function Safe by and the contegrated in t	Transient overtorque	170200 % of nominal motor torque
Adjustable 0300 % Not available in voltage/frequency ratio (2 or 5 points) Switching frequency 216 kHz adjustable 410 kHz with derating factor Nominal switching frequency 4 kHz Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) 4.9 A at 240 V (heavy duty) Maximum input current 5.9 A S.9 A at 240 V (heavy duty) Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Ower dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safe brake management (SBC/SBT) False		U S CUS Ramp switching Acceleration/deceleration ramp adaptation
416 kHz with derating factor Nominal switching frequency 4 kHz Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) 4.9 A at 240 V (heavy duty) Maximum input current 5.9 A Maximum output voltage 240 V Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Motor slip compensation	Adjustable 0300 %
Braking to standstill By DC injection Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) 4.9 A at 240 V (heavy duty) Maximum input current 5.9 A Maximum output voltage 240 V Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Switching frequency	
Brake chopper integrated True Line current 5.9 A at 200 V (heavy duty) 4.9 A at 240 V (heavy duty) Maximum input current 5.9 A Maximum output voltage 240 V Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe False With safety function Safe False	Nominal switching frequency	4 kHz
Line current5.9 A at 200 V (heavy duty) 4.9 A at 240 V (heavy duty)Maximum input current5.9 AMaximum output voltage240 VApparent power1.2 kVA at 240 V (heavy duty)Network frequency5060 HzRelative symmetric network frequency tolerance5 %Prospective line lsc1 kABase load current at high overload6.9 APower dissipation in WSelf-cooled: 30 W at 200 V, switching frequency 4 kHzWith safety function Safely Limited Speed (SLS)TrueWith safety function Safe management (SBC/SBT)False	Braking to standstill	By DC injection
4.9 A at 240 V (heavý duťy) Maximum input current 5.9 A Maximum output voltage 240 V Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Brake chopper integrated	True
Maximum output voltage240 VApparent power1.2 kVA at 240 V (heavy duty)Network frequency5060 HzRelative symmetric network frequency tolerance5 %Prospective line Isc1 kABase load current at high overload6.9 APower dissipation in WSelf-cooled: 30 W at 200 V, switching frequency 4 kHzWith safety function Safely umanagement (SBC/SBT)TrueWith safety function Safe management (SBC/SBT)False	Line current	
Apparent power 1.2 kVA at 240 V (heavy duty) Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Maximum input current	5.9 A
Network frequency 5060 Hz Relative symmetric network frequency tolerance 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Maximum output voltage	240 V
Relative symmetric network 5 % Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Apparent power	1.2 kVA at 240 V (heavy duty)
frequency tolerance Prospective line lsc 1 kA Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Network frequency	5060 Hz
Base load current at high overload 6.9 A Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely Limited Speed (SLS) True With safety function Safe brake management (SBC/SBT) False With safety function Safe False		5 %
overload Power dissipation in W Self-cooled: 30 W at 200 V, switching frequency 4 kHz With safety function Safely True With safety function Safe brake management (SBC/SBT) False With safety function Safe False	Prospective line Isc	1 kA
With safety function Safely True With safety function Safe brake False With safety function Safe False	-	6.9 A
Limited Speed (SLS) With safety function Safe brake management (SBC/SBT) With safety function Safe False	Power dissipation in W	Self-cooled: 30 W at 200 V, switching frequency 4 kHz
management (SBC/SBT) With safety function Safe False		True
		False
		False

With safety function Safe Position (SP)	False
With safety function Safe programmable logic	False
With safety function Safe Speed Monitor (SSM)	False
With safety function Safe Stop 1 (SS1)	True
With sft fct Safe Stop 2 (SS2)	False
With safety function Safe torque off (STO)	True
With safety function Safely Limited Position (SLP)	False
With safety function Safe Direction (SDI)	False
Protection type	Input phase breaks: drive Overcurrent between output phases and earth: drive Overheating protection: drive Short-circuit between motor phases: drive Thermal protection: drive
Width	250 mm
Height	340 mm
Depth	182.0 mm
Net weight	5.5 kg
Environment	
Operating position	Vertical +/- 10 degree
Product certifications	CE ATEX NOM GOST EAC RCM KC
Marking	CE ATEX UL CSA EAC RCM
Standards	EN/IEC 61800-5-1
Electromagnetic compatibility	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 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 1.2/50 μ s - 8/20 μ s surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
Environmental class (during operation)	Class 3C3 according to IEC 60721-3-3 Class 3S2 according to IEC 60721-3-3
Maximum acceleration under shock impact (during operation)	150 m/s² at 11 ms
Maximum acceleration under vibrational stress (during operation)	10 m/s² at 13200 Hz
Maximum deflection under vibratory load (during operation)	1.5 mm at 213 Hz
Permitted relative humidity (during operation)	Class 3K5 according to EN 60721-3
Overvoltage category	111
Regulation loop	Adjustable PID regulator

Speed accuracy	+/- 10 % of nominal slip 0.2 Tn to Tn
Pollution degree	3
Ambient air transport temperature	-2570 °C
Ambient air temperature for operation	-1040 °C without derating 4060 °C with derating factor
Ambient air temperature for storage	-2570 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	23.5 cm
Package 1 Width	31 cm
Package 1 Length	45 cm
Package 1 Weight	7.451 kg
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Height	75 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	39.804 kg

Offer Sustainability

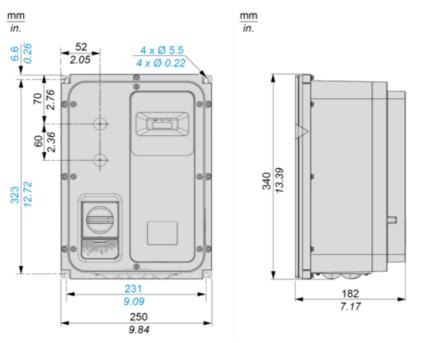
ener edetamasmey	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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
Upgradeability	Upgraded components available

Dimensions Drawings

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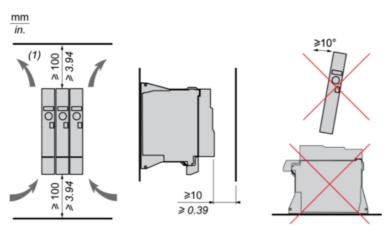
Dimensions

Front and Left View



Mounting and Clearance

Mounting and Clearance



(1) Minimum value corresponding to thermal constraints.

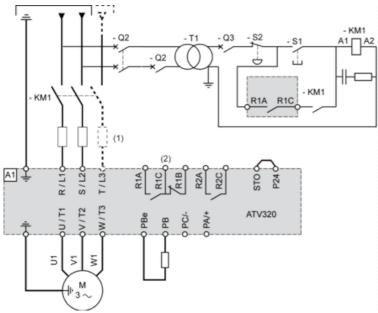
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Connections and Schema

Connection Diagrams

Diagram with Line Contactor

Connection diagrams conforming to standards ISO13849 category 1 and IEC/EN 61508 capacity SIL1, stopping category 0 in accordance with standard IEC/EN 60204-1.

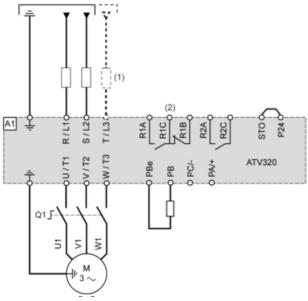


(1) Line choke (if used)

(2) Fault relay contacts, for remote signaling of drive status

Diagram with Switch Disconnect

Connection diagrams conforming to standards EN 954-1 category 1 and IEC/EN 61508 capacity SIL1, stopping category 0 in accordance with standard IEC/EN 60204-1.

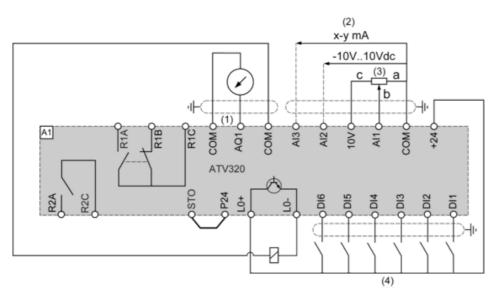


(1) Line choke (if used)

(2) Fault relay contacts, for remote signaling of drive status

Connections and Schema

Control Connection Diagram in Source Mode



(1) Analog output

(2) Analog inputs

(3) Reference potentiometer (10 kOhm maxi)

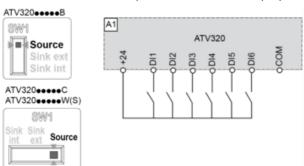
(4) Digital inputs

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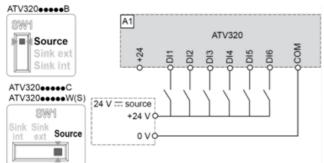
Connections and Schema

Digital Inputs Wiring

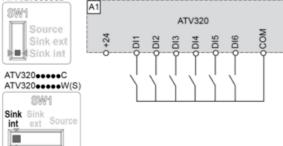
The logic input switch (SW1) is used to adapt the operation of the logic inputs to the technology of the programmable controller outputs. Switch SW1 set to "Source" position and use of the output power supply for the DIs.



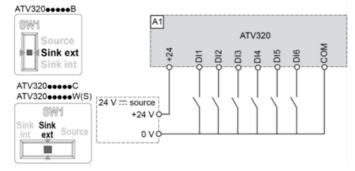
Switch SW1 set to "Source" position and use of an external power supply for the DIs.



Switch SW1 set to "Sink Int" position and use of the output power supply for the DIs.



Switch SW1 set to "Sink Ext" position and use of an external power supply for the DIs.



Recommended replacement(s)