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Altivar Machine ATV320

Variable speed drives

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Description

- 1 Power terminals
- 2 Protective cover to block access to the power terminals 1 when closed
- 3 RJ45 communication port for access to integrated protocols: Modbus serial link and CANopen machine bus
- 4 Protective cover for access to the control terminals (also includes a label with a wiring diagram)
- 5 Control terminals for I/O connection:
 - 6 digital inputs:
 - 4 configurable for positive digital input (Sink) or negative digital input (Source)
 - 1 input configurable as a PTC probe input
 - 1 x 20 kHz pulse control input, 24 V $\overline{\text{---}}$, impedance 3,5 k Ω , sampling time 8 ms
 - 1 digital output:
 - 24 V $\overline{\text{---}}$, sampling time 2 ms, maximum voltage 30 V, maximum current 100 mA
 - 3 analog inputs:
 - 1 current analog input, by programming X and Y from 0 to 20 mA, impedance 250 Ω
 - 1 bipolar differential analog input ± 10 V, impedance 30 k Ω
 - 1 voltage analog input 0...10 V $\overline{\text{---}}$, impedance 30 k Ω , sampling time 2 ms
 - 1 analog output configurable as:
 - voltage analog output 0...10 V $\overline{\text{---}}$, minimum load impedance 470 Ω
 - current analog output 0...20 mA, maximum load impedance 800 Ω
 - 2 relay outputs:
 - 1 NC contact and 1 NO contact with common point
- Minimum switching capacity 5 mA for 24 V $\overline{\text{---}}$, maximum switching capacity 3 A on resistive load, 2 A on inductive load for 250 V \sim or 30 V $\overline{\text{---}}$
- 1 NO contact, maximum switching capacity 5 A on resistive load
- 6 Removable motor power terminal block (allows quick disconnect and re-connect of motor cables during maintenance operations)
- 7 EMC mounting plate (integral part of the motor power terminal block 6). This plate is supplied with a cable guide support, which can be used if required.
- 8 Direct cable connection doesn't affect Certification & Protection degree (IP level).

Standards and certifications (1)

Altivar Machine ATV320 drives have been developed to conform to the strictest international standards and recommendations relating to industrial electrical control devices (IEC), in particular:

- IEC 61800-5-1
- IEC 61800-3:
 - EMC immunity: IEC 61800-3, Environments 1 and 2
 - Conducted emission compliance:
 - IEC 61800-3, category C2, C3 with integrated EMC filter for ATV320●M2●, ATV320●N4W●, ATV320U04N4●●●●D15N4● drives
 - IEC 61800-3, category C1, C2, C3 with additional EMC filter for ATV320●N4●, ATV320●M2● drives

- ISO/EN 13849-1/-2 category 3 (PL d)
- IEC 61508 (parts 1 & 2)
- IEC 60721-3-3 classes 3C3 and 3S2

Altivar Machine ATV320 drives are certified:

- CE - LV EMC
- CE - Machine
- ATEX
- UL 508C
- UL61800-5-1
- CSA 22.2 N274
- NOM
- GOST
- EAC
- CTICK
- RCM
- KC
- SIL

They are CE marked according to the European low voltage (2014/35/UE) and EMC (2014/30/UE) directives.

They also comply with environmental directives (RoHS).

(1) A complete list of certifications and characteristics is available on our website www.schneider-electric.com.