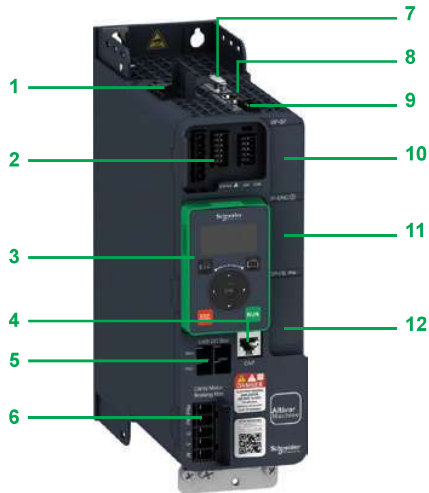




# Altivar Machine ATV340

Variable speed drives for  
high-performance machines



ATV340 Ethernet drive equipped with plain text display terminal

### Description

**1** Power supply terminals

**2** I/O connection (1):

■ 5 digital inputs:

□ Configurable as positive digital input (source) or negative digital input (sink)

compliant with IEC61131-2 PLC standards:

□ 24 V  $\overline{\text{---}}$ , impedance 4.4 k $\Omega$ , sampling time 1 ms +/- 250  $\mu\text{s}$ , response time 1 ms

■ 2 digital inputs or outputs:

□ Configurable and compliant with IEC61131-2 PLC standards

□ 24 V  $\overline{\text{---}}$ , sampling time 2 ms, maximum voltage 30 V, maximum current 100 mA

■ 2 relay outputs: R1 (3 NO and NC contacts) and R2 (2 NC contacts)

□ R1 - 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  $\overline{\text{---}}$

□ R2 - 1 NC contact, maximum switching capacity 5 A on resistive load

■ 2 analog inputs:

□ 1 configurable (voltage/current/PTC-PT100) analog input, by programming X and Y from 0 to 20 mA

□ 1 bipolar  $\pm 10$  V  $\overline{\text{---}}$  analog input, sampling time 250  $\mu\text{s}$

■ 1 analog output, 2 ms +/- 0.5 ms sampling time and 10-bit resolution, configurable as:

□ Voltage analog output 0...10 V  $\overline{\text{---}}$ , minimum load impedance 470  $\Omega$

□ Current analog output "x to y" mA, maximum load impedance 500  $\Omega$

**3** Plain text display terminal (can be mounted as an option)

**4** Modbus Serial line RJ45 port

**5** DC Bus connection link (2)

**6** Motor and braking resistor connector

**7** Encoder feedback interface is compatible with RS422 incremental (A/B/I) and Sin/Cos 1 Vpp (SC) interfaces, 5 V, 12 V, and 24 V supply voltage (3)

**8** Pulse train output (PTO) and pulse train input (PTI) interface can be used to control the drive via PLC or using hardwired master/slave applications. The interface is equipped with 2 RJ45 ports and the pulse counter can be set at 0...200 kpps (4) (7)

**9** Safe torque off (STO) dual input SIL3/PLe and 24 V  $\overline{\text{---}}$  supply in/out

**10** GP – SF slot for Safety option module (7) or additional I/O module (see [page 35](#)) (5)

**11** GP – ENC slot for encoder interface module (see [page 34](#)) or additional I/O module (see [page 35](#))

**12** GP – FB slot for communication option module (see [page 39](#)) or additional I/O module (see [page 35](#)) (6) or Sercos communication module (8)

(1) ATV340D30N4E to ATV340D75N4E references have 8 digital inputs (positive or negative logic), 1 assignable digital output, 3 analog inputs configurable as voltage or current, including 2 for probes (PTC, PT100, PT1000, or KTY84), 2 analog outputs configurable as voltage (0...10 V) or current (0-20 mA), and 3 relay outputs - 1 with NO/NC and 2 with NO contacts.

(2) ATV340D30N4E to ATV340D75N4E references: DC bus connection is possible but not located on the front of the product; for more details please refer to the [installation manual](#).

(3) ATV340D30N4E to ATV340D75N4E references require an encoder option module for closed loop operation.

(4) ATV340D30N4E to ATV340D75N4E references do not have PTI/PTO for master/slave operation. Drive-to-drive link via Ethernet or analog inputs and outputs can be used.

(5) ATV340D30N4E to ATV340D75N4E references have different option slot positions; for more details please refer to the [installation manual](#).

(6) ATV340●●●N4E references are equipped with dual port Ethernet IP/Modbus TCP communication, communication option modules can be inserted in ATV340D30N4E...D75N4E references. For more details please refer to the [installation manual](#).

(7) Not supported by Sercos drives.

(8) Sercos drives only.