ALTIVAR MACHINE ATV320

Product Data Sheet

ATV320U75N4B

7.5 kW Variable Speed Drive

MOTOR POWER, HEAVY DUTY	RATED SUPPLY VOLTAGE	INPUT PHASES	SUPPLY FREQUENCY
7.5 kW / 10 hp	**380 to 500 V AC, -15% / +10%**	**3**	**50 to 60 Hz, +/-5%**

Schneider Electric ATV320U75N4B is a book-format Altivar Machine ATV320 variable speed drive for three-phase 380 to 500 V AC supplies. Its heavy-duty motor rating is 7.5 kW, with a continuous output current of 17 A at the nominal 4 kHz switching frequency. The drive supports both asynchronous and synchronous motor control and incorporates a Class C2 EMC filter.

01 TECHNICAL DATA

Motor power, heavy duty	7.5 kW / 10 hp
Rated supply voltage	380 to 500 V AC, -15% / +10%
Input phases	3
Supply frequency	50 to 60 Hz, +/-5%
Continuous output current	17.0 A at 4 kHz, heavy duty
Transient output current	25.5 A for 60 s, heavy duty
Output frequency	0.1 to 599 Hz
Nominal switching frequency	4 kHz
Adjustable switching frequency	2 to 16 kHz, derating above 4 kHz
Integrated EMC filter	Class C2

02 ADDITIONAL PRODUCT DATA

Ingress protection	IP20
Built-in communication	Modbus serial; CANopen
Analog input channels	3
Safe torque off rating	SIL 3
Prospective line short-circuit current	22 kA

03 PRODUCT FUNCTION

The output-frequency range is 0.1 to 599 Hz, with adjustable switching frequency from 2 to 16 kHz and derating above 4 kHz. Built-in Modbus serial and CANopen interfaces accompany three analog inputs and configurable control I/O. The IP20 enclosure uses fan cooling, while integrated safety functions include safe torque off rated to SIL 3 under the applicable safety configuration.

04 SYSTEM COMPATIBILITY

Keep power wiring, protective earth and control wiring arranged according to the ATV320 installation guidance. The Class C2 EMC filter is built in, but the complete installation still determines electromagnetic compliance. Select the Modbus or CANopen control path and assign the analog and logic inputs to the intended speed and run commands.

05 REFERENCE

Schneider Electric Altivar Machine ATV320 manufacturer technical data

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