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Find the *Schneider Electric / Telemecanique / Square D ATV18U09M2U* at our website: ***Click HERE***

ALTIVAR™ 18 drive

High performance and flexibility in a compact design.



High performance

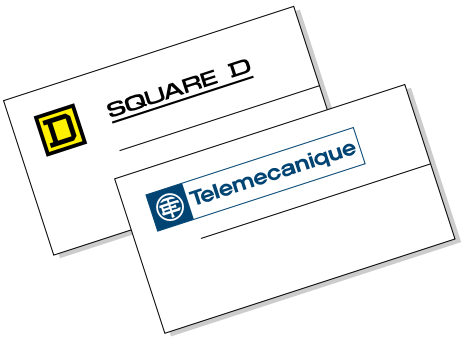
- Sensorless flux vector control; typically:
  150% full load torque down to 3 Hz
  100% full load torque down to 1 Hz
- Constant torque, V/Hz control
- Variable torque, V/Hz control
- Energy savings mode: optimizes output power by automatic adjustment of motor magnetization to match load requirements.

Wide functionality

- *Configurable I/O:* allows customization of functions to meet application requirements.
- *Four preset speeds:* adjustable.
- *Jog:* adjustable between 0 to 10 Hz.
- *Catch-on-fly:* instead of deceleration down to zero speed in the event of power loss, drive is able to search for instantaneous speed of the operating machine and ramp up to set speed.
- *Built-in PI regulation:* increases control flexibility without any extra hardware for maintaining constant process parameter (like pressure, temperature, flow) by adjusting to varying operating conditions represented by 0-10V, 0-20 mA, or 4-20 mA feedback.

System protection

- Short circuit protection
- Motor thermal overload protection
  (UL listed as overload device; file E164874)
- Automatic restarting
- Controlled stopping on loss of power
- Multiple levels of controller protection



The ALTIVAR™ 18 drive is an open loop vector drive, offering compact design and flexible capabilities to meet a wide variety of applications. Ideally suited for OEMs, the ATV 18 drive comes standard with built-in filters to meet the Low Voltage and EMC Directives for CE marking. This eliminates the time and costs associated with mounting external filters.

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ALTIVAR™ 18 drive

Environment

CE marking:
The ALTIVAR 18 drive was developed in accordance with European low voltage directives 73/23/EEC and 93/68/EEC and EMC directive 89/336/EEC.

Product certification:
UL listed and CSA certified.

Degree of protection:
IP31: sizes up through ATV18U72 (5 hp)
IP21: sizes ATV18U90 (7.5 hp) and above
IP20: without grey tape on top of drive

Maximum relative humidity:
95% non-condensing and without dripping. Provide heating system if condensation occurs.

Maximum ambient temperature
Storage:
-13°F to 149°F (-25°C to 65°C)
Operation:
14°F to 104°F (-10°C to 40°C) with grey tape on top of drive
14°F to 122°F (-10°C to 50°C) without grey tape on top of drive
Temperature valid up to 3300 feet altitude without any derating.

Selection information

Power supply	Rated output (nominal FLA)	Motor (HP)	Catalog number	Dimensions W x H x D in.
Single-phase input, Three-phase output				
200V -15%	2.1	0.5	ATV18U09M2U	4.40 x 7.16 x 4.76
240V +10%	3.6	1	ATV18U18M2U	4.40 x 7.16 x 4.76
50/60 Hz ± 5%	6.8	2	ATV18U29M2U	5.86 x 7.24 x 6.18
	9.6	3	ATV18U41M2U	7.28 x 8.46 x 6.18
Three-phase input, Three-phase output				
200V -15%	12.3	—	ATV18U54M2U	7.28 x 8.46 x 6.18
230V +10%	16.4	5	ATV18U72M2U	7.28 x 8.46 x 6.18
50/60 Hz ± 5%	22.0	7.5	ATV18U90M2U	8.26 x 11.81 x 6.69
	28.0	10	ATV18D12M2U	8.26 x 11.81 x 6.69
	2.1	1	ATV18U18N4U	5.86 x 7.24 x 6.18
	3.7	2	ATV18U29N4U	5.86 x 7.24 x 6.18
	5.3	3	ATV18U41N4U	7.28 x 8.46 x 6.18
380V -15%	7.1	4	ATV18U54N4U	7.28 x 8.46 x 6.18
460V +10%	9.2	5	ATV18U72N4U	7.28 x 8.46 x 6.18
50/60 Hz ± 5%	11.8	7.5	ATV18U90N4U	8.26 x 11.81 x 6.69
	16.0	10	ATV18D12N4U	8.26 x 11.81 x 6.69
	22.0	15	ATV18D16N4U	9.64 x 15.35 x 7.48
	29.3	20	ATV18D23N4U	9.64 x 15.35 x 7.48

Electrical characteristics

Power supply: *Voltage* 200V - 15% to 240V + 10% single-phase
200V - 15% to 230V + 10% 3-phase
380V - 15% to 460V + 10% 3-phase
Frequency 50/60 Hz ±5%

Output frequency range: 0.5 to 320 Hz

Maximum transient current: 150% of nominal drive current for 60 seconds

Transient overtorque: 150% of nominal motor torque

Braking torque: 30% of nominal torque without braking resistor (typical value)
Up to 150% with optional braking resistor

Analog inputs: 2 voltage analog inputs: 0 to +10 V
1 current analog input: 0-20 mA or 4-20 mA

Logic inputs: 4 optically isolated logic inputs

Logic output: 1 programmable PLC-compatible logic output

Acceleration and deceleration ramps: Linear ramps which can be adjusted separately from 0.1 to 3,600 seconds. Automatic adaptation of ramp times if the torque capacity is exceeded.

Voltage/frequency ratio: Factory set for most constant torque applications with sensorless flux vector control. Adjustment possible: specific ratios for pumps and fans, energy savings, and constant torque V/Hz for special motors.

Switching frequency: Factory set for 4 kHz. Adjustable from 2.2 to 12 kHz.

Motor protection: Thermal protection offered by the drive by dynamic calculation of connected motor I^2t.

ALTIVAR is a registered trademark of Square D Company.

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