



Main

Range of product	Altivar 31
Product or component type	Variable speed drive
Product destination	Asynchronous motors
Product specific application	Simple machine
Assembly style	Enclosed
Component name	ATV31
EMC filter	Integrated
[Us] rated supply voltage	380...500 V - 15...10 %
Supply frequency	50...60 Hz - 5...5 %
Phase	3 phases
Motor power kW	0.37 kW
Motor power hp	0.5 hp
Line current	1.7 A 500 V 1 kA 2.2 A 380 V 1 kA
Apparent power	1.5 kVA
Prospective line Isc	5 kA
Nominal output current	1.5 A 4 kHz
Maximum transient current	2.3 A 60 s
Power dissipation in W	32 W at nominal load
Speed range	1...50
Transient overtorque	Of nominal motor torque
Asynchronous motor control profile	Factory set : constant torque Sensorless flux vector control with PWM type motor control signal
Analogue input number	3
IP degree of protection	IP55

Complementary

Supply voltage limits	323...550 V
Network frequency limits	47.5...63 Hz
Speed drive output frequency	0.5...500 Hz
Nominal switching frequency	4 kHz
Switching frequency	2...16 kHz adjustable
Braking torque	100 % with braking resistor continuously 100 % without braking resistor <= 150 % with braking resistor 60 s
Regulation loop	Frequency PI regulator
Motor slip compensation	Adjustable Automatic whatever the load Suppressable
Output voltage	<= power supply voltage
Electrical connection	Terminal 0 in ² (2.5 mm ²) AWG 14 AI1, AI2, AI3, AOV, AOC, R1A, R1B, R1C, R2A, R2B, L1...L16 Terminal 0 in ² (2.5 mm ²) AWG 14 L1, L2, L3, U, V, W, PA, PB, PA+, PC/-
Tightening torque	5.31 lbf.in (0.6 N.m) AI1, AI2, AI3, AOV, AOC, R1A, R1B, R1C, R2A, R2B, L1...L16 7.08 lbf.in (0.8 N.m) L1, L2, L3, U, V, W, PA, PB, PA+, PC/-
Insulation	Electrical between power and control
Supply	Internal supply for logic inputs 19...30 V 100 mA overload protection Internal supply for logic inputs 19...30 V 100 mA short-circuit protection Internal supply for reference potentiometer 10...10.8 V 10 mA overload protection Internal supply for reference potentiometer 10...10.8 V 10 mA short-circuit protection
Analogue input type	Configurable current AI3 0...20 mA 250 Ohm

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Configurable voltage AI1 0...10 V 30 V max 30000 Ohm
 Configurable voltage AI2 +/- 10 V 30 V max 30000 Ohm

Sampling duration	4 ms LI1...LI6 discrete 8 ms AI1, AI2, AI3 analog
Response time	8 ms analog AOV, AOC 8 ms discrete R1A, R1B, R1C, R2A, R2B
Linearity error	+/- 0.2 % output
Analogue output number	2
Analogue output type	Configurable current AOC 0...20 mA 800 Ohm 8 bits Configurable voltage AOV 0...10 V 470 Ohm 8 bits
Discrete input logic	Logic input not wired LI1...LI4 < 13 V Negative logic (source) LI1...LI6 > 19 V Positive logic (source) LI1...LI6 < 5 V > 11 V
Discrete output number	2
Discrete output type	Configurable relay logic R1A, R1B, R1C 1 NO + 1 NC 100000 cycles Configurable relay logic R2A, R2B NC 100000 cycles
Minimum switching current	10 mA 5 V DC R1-R2
Maximum switching current	2 A 250 V AC inductive cos phi = 0.4 L/R = 7 ms R1-R2 2 A 30 V DC inductive cos phi = 0.4 L/R = 7 ms R1-R2 5 A 250 V AC resistive cos phi = 1 L/R = 0 ms R1-R2 5 A 30 V DC resistive cos phi = 1 L/R = 0 ms R1-R2
Discrete input number	6
Discrete input type	Programmable LI1...LI6 24 V 0...100 mA PLC 3500 Ohm
Acceleration and deceleration ramps	Linear adjustable separately from 0.1 to 999.9 s S, U or customized
Braking to standstill	By DC injection
Protection type	Input phase breaks drive Line supply overvoltage and undervoltage safety circuits drive Line supply phase loss safety function, for three phases supply drive Motor phase breaks drive Overcurrent between output phases and earth (on power up only) drive Overheating protection drive Short-circuit between motor phases drive Thermal protection motor
Insulation resistance	>= 500 mOhm 500 V DC for 1 minute
Local signalling	1 LED red drive voltage Four 7-segment display units CANopen bus status
Time constant	5 ms for reference change
Frequency resolution	0.1 Hz display unit 0.1...100 Hz analog input
Communication port protocol	CANopen Modbus
Connector type	1 RJ45 CANopen via VW3 CANTAP2 adaptor 1 RJ45 Modbus
Physical interface	RS485 multidrop serial link Modbus
Transmission frame	RTU Modbus
Transmission rate	10, 20, 50, 125, 250, 500 kbps or 1 Mbps CANopen via VW3 CANTAP2 adaptor 4800, 9600 or 19200 bps Modbus
Number of addresses	1...127 CANopen via VW3 CANTAP2 adaptor 1...247 Modbus
Number of drive	127 CANopen via VW3 CANTAP2 adaptor 31 Modbus
Marking	CE
Operating position	Vertical +/- 10 degree
Product weight	19.4 lb(US) (8.8 kg)

Environment

dielectric strength	2410 V DC between earth and power terminals 3400 V AC between control and power terminals
electromagnetic compatibility	1.2/50 µs - 8/20 µs surge immunity test level 3 IEC 61000-4-5 Electrical fast transient/burst immunity test level 4 IEC 61000-4-4 Electrostatic discharge immunity test level 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 IEC 61000-4-3
standards	EN 50178

product certifications	CSA C-Tick N998 UL
pollution degree	2
protective treatment	TC
vibration resistance	1 gn 13...150 Hz EN/IEC 60068-2-6 1.5 mm 3...13 Hz EN/IEC 60068-2-6
shock resistance	15 gn 11 ms EN/IEC 60068-2-27
relative humidity	5...95 % without condensation IEC 60068-2-3 5...95 % without dripping water IEC 60068-2-3
ambient air temperature for storage	-13...158 °F (-25...70 °C)
ambient air temperature for operation	14...122 °F (-10...50 °C) without derating with protective cover on top of the drive 14...140 °F (-10...60 °C) with derating factor without protective cover on top of the drive
operating altitude	>= 3280.84 ft (1000 m) with current derating 1 % per 100 m

Offer Sustainability

WARNING: This product can expose you to chemicals including:	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.	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm.	Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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