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| Range of product | Altivar 312 |
| Product or component type | Variable speed drive |
| Product destination | Asynchronous motors |
| Product specific application | Simple machine |
| Assembly style | With heat sink |
| Component name | ATV312 |
| Motor power kW | 5.5 kW |
| Motor power hp | 7.5 hp |
| [Us] rated supply voltage | 200...240 V (- 15...10 %) |
| Supply frequency | 50...60 Hz (- 5...5 %) |
| Phase | 3 phases |
| Line current | 32 Afor 240 V 36.8 Afor 200 V, 22 kA |
| EMC filter | Without EMC filter |
| Apparent power | 12.8 kVA |
| Maximum transient current | 41.3 Afor 60 s |
| Power dissipation in W | 292 W at nominal load |
| Speed range | 1...50 |
| Asynchronous motor control profile | Factory set : constant torque Sensorless flux vector control with PWM type motor control signal |
| Electrical connection | AI1, AI2, AI3, AOV, AOC, R1A, R1B, R1C, R2A, R2B, LI1...LI6 terminal 0 in ² (2.5 mm ²) AWG 14 L1, L2, L3, U, V, W, PA, PB, PA+, PC/- terminal 0.02 in ² (16 mm ²) AWG 6 |
| Supply | Internal supply for logic inputsat 19...30 V, <= 100 mAfor overload and short-circuit protection Internal supply for reference potentiometer (2.2 to 10 kOhm)at 10...10.8 V, <= 10 mAfor overload and short-circuit protection |
| Communication port protocol | CANopen Modbus |
| IP degree of protection | IP20 on upper part without cover plate IP21 on connection terminals IP31 on upper part IP41 on upper part |
| Option card | CANopen daisy chain communication card DeviceNet communication card Fipio communication card Modbus TCP communication card Profibus DP communication card |

Complementary

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| Supply voltage limits | 170...264 V |
| Network frequency | 47.5...63 Hz |
| Prospective line I _{sc} | 22 kA |
| Continuous output current | 27.5 Aat 4 kHz |
| Output frequency | 0...500 kHz |
| Nominal switching frequency | 4 kHz |
| Switching frequency | 2...16 kHz adjustable |
| Transient overtorque | 170...200 % of nominal motor torque |
| Braking torque | 100 % with braking resistor continuously |

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150 % without braking resistor
150 % with braking resistor for 60 s

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| Regulation loop | Frequency PI regulator |
| Motor slip compensation | Adjustable Automatic whatever the load Suppressable |
| Output voltage | <= power supply voltage |
| Tightening torque | 5.31 lbf.in (0.6 N.m) AI1, AI2, AI3, AOV, AOC, R1A, R1B, R1C, R2A, R2B, LI1...LI6 22.12 lbf.in (2.5 N.m) L1, L2, L3, U, V, W, PA, PB, PA/+, PC/- |
| Insulation | Electrical between power and control |
| Analogue input number | 3 |
| Analogue input type | AI1 configurable voltage 0...10 V, input voltage 30 V max, impedance 30000 Ohm AI2 configurable voltage +/- 10 V, input voltage 30 V max, impedance 30000 Ohm AI3 configurable current 0...20 mA, impedance 250 Ohm |
| Sampling duration | AI1, AI2, AI3 8 ms analog LI1...LI6 4 ms discrete |
| Response time | AOV, AOC 8 ms analog R1A, R1B, R1C, R2A, R2B 8 ms discrete |
| Linearity error | +/- 0.2 % output |
| Analogue output number | 1 |
| Analogue output type | AOC configurable current 0...20 mA, impedance 800 Ohm, resolution 8 bits AOV configurable voltage 0...10 V, impedance 470 Ohm, resolution 8 bits |
| Discrete input logic | (LI1...LI4) logic input not wired, < 13 V (state 1) (LI1...LI6) negative logic (source), > 19 V (state 0) (LI1...LI6) positive logic (source), < 5 V (state 0), > 11 V (state 1) |
| Discrete output number | 2 |
| Discrete output type | (R1A, R1B, R1C) configurable relay logic 1 NO + 1 NC, electrical durability 100000 cycles (R2A, R2B) configurable relay logic NC, electrical durability 100000 cycles |
| Minimum switching current | R1-R2 10 mA at 5 V DC |
| Maximum switching current | R1-R2 on inductive load, 2 A at 250 V AC, (cos phi = 0.4, and L/R = 7 ms) R1-R2 on inductive load, 2 A at 30 V DC, (cos phi = 0.4, and L/R = 7 ms) R1-R2 on resistive load, 5 A at 250 V AC, (cos phi = 1, and L/R = 0 ms) R1-R2 on resistive load, 5 A at 30 V DC, (cos phi = 1, and L/R = 0 ms) |
| Discrete input number | 6 |
| Discrete input type | (LI1...LI6) programmable, 24 V 0...100 mA with PLC, impedance 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 at 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 | Analog input 0.1...100 Hz Display unit 0.1 Hz |
| Connector type | 1 RJ45 Modbus/CANopen |
| Physical interface | RS485 multidrop serial link |
| Transmission frame | RTU |
| Transmission rate | 10, 20, 50, 125, 250, 500 kbps or 1 Mbps CANopen 4800, 9600 or 19200 bps Modbus |
| Number of addresses | 1...247 Modbus 1...127 CANopen |
| Number of drive | 127 CANopen 31 Modbus |
| Marking | CE |
| Operating position | Vertical +/- 10 degree |

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| Outer dimension | 232 x 180 x 170 mm |
| Height | 9.13 in (232 mm) |
| Width | 7.09 in (180 mm) |
| Depth | 6.77 in (172 mm) |
| Product weight | 14.11 lb(US) (6.4 kg) |

Environment

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| dielectric strength | 2040 V DC between earth and power terminals 2880 V AC between control and power terminals |
| electromagnetic compatibility | Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 level 4 Electrostatic discharge immunity test conforming to IEC 61000-4-2 level 3 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 level 3 1.2/50 μ s - 8/20 μ s surge immunity test conforming to IEC 61000-4-5 level 3 |
| standards | IEC 61800-3 IEC 61800-5-1 |
| product certifications | CSA C-Tick DNV GOST NOM UL |
| pollution degree | 2 |
| protective treatment | TC |
| vibration resistance | 1.5 mm (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6 |
| shock resistance | 15 gn 11 ms conforming to EN/IEC 60068-2-27 |
| relative humidity | 5...95 % without condensation conforming to IEC 60068-2-3 5...95 % without dripping water conforming to 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) without derating 3280.84...9842.52 ft (1000...3000 m) with current derating 1 % per 100 m |

Offer Sustainability

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| Green Premium product | Green Premium product |
| Compliant - since 0913 - Schneider Electric declaration of conformity | Compliant - since 0913 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |

Contractual warranty

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| Warranty period | 18 months |
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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- 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);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

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«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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