

Tilbage

Oplev ATV630U15M3 ved

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**ATV630U15M3****Frekvensomformer ATV630 - 1.5kW - 200...240V - IP21**
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Kendetegn**Egenskaber**

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|-----------------------------------|--|
| Produktserie | Altivar Proces ATV600 |
| Produkttype | Frekvensomformer |
| Produktspecifik applikation | Proces og utilities |
| Enheds forkortelse | ATV630 |
| Variant | Standard version |
| Anvendelse | Asynkron motor Synchronous motors |
| EMC filter | Uden EMC filter |
| IP kapslingsklasse | IP21 i henhold til IEC 61800-5-1 IP21 i henhold til IEC 60529 |
| Nominel forsyningsspænding [Us] | 200...240 V |
| Tæthedgrad | UL type 1 i henhold til UL 508C |
| Afkølingsmåde | Tvangskøling |
| Tilslutningsfrekvens | 50...60 Hz - 5...5 % |
| [Us] forsyningsspænding | 200...240 V - 15...10 % |
| Motoreffekt i kW | 1.5 kW (normal duty) 0.75 kW (heavy duty) |
| Motoreffekt i hp | 2 hp normal duty 1 hp heavy duty |
| Optagen strøm | 5,9 A ved 200 V (normal duty) 5 A ved 240 V (normal duty) 3,3 A ved 200 V (heavy duty) 3 A ved 240 V (heavy duty) |
| Prospektiv kortslutningsstrøm Isc | 50 kA |
| Tilsyneladende effekt | 2,1 kVA ved 240 V (normal duty) 1,2 kVA ved 240 V (heavy duty) |
| Vedvarende udgangsstrøm | 8 A ved 4 kHz til normal duty 4,6 A ved 4 kHz til heavy duty |
| Maks. transient strøm | 8,8 A gennem 60 s (normal duty) 6,9 A gennem 60 s (heavy duty) |
| Asynkron motorkontrol | Konstant moment standard Variable moment standard Optimizeret moment mode |
| Synkronmotorkontrol | Permanent magnet motor Synchronous reluctance motor |
| Udgangsfrekvens | 0,0001...0,5 kHz |
| Hastighed drev output frekvens | 0,1...599 Hz |

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| Nominel switching frekvens | 4 kHz |
| Frekens | 2...12 kHz adjustable 4...12 kHz with derating factor |
| Sikkerhedsfunktion | STO (safe torque off) SIL 3 |
| Digital indgangslogik | 16 preset hastighed |
| Protokol til kommunikationsport | Modbus serial Ethernet Modbus TCP |
| Option kort | Slot A: communication module, Profibus DP V1 Slot A: communication module, Profinet Slot A: communication module, DeviceNet Slot A: communication module, Modbus TCP/EtherNet/IP Slot A: communication module, CANopen daisy chain RJ45 Slot A: communication module, CANopen SUB-D 9 Slot A: communication module, CANopen screw terminals Slot A/slot B: digital and analog I/O extension module Slot A: communication module, Ethernet IP/Modbus TCP/M-D-Link Communication module, BACnet MS/TP Communication module, Ethernet Powerlink |

Produktinformationer

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| Montagemåde | Vægmontering |
| Antal faser | 3 faser |
| Antal digitale udgange | 0 |
| Digital udgangstype | Relay outputs R1A, R1B, R1C 250 V AC 3000 mA Relay outputs R1A, R1B, R1C 30 V DC 3000 mA Relay outputs R2A, R2C 250 V AC 5000 mA Relay outputs R2A, R2C 30 V DC 5000 mA Relay outputs R3A, R3C 250 V AC 5000 mA Relay outputs R3A, R3C 30 V DC 5000 mA |
| Udgangsspænding | <= strømforsyning spænding |
| Midletidig strøm boost | 1.1 x In during 60 s (normal duty) 1.5 x In during 60 s (heavy duty) |
| Motor kompensation | Automatik uanset belastning Kan blive undertrykt Justerbar Ikke tilgængelig i permanent magnet motor lov |
| Accellerations- og nedreguleringsrampe | Linear justerbar separat fra 0.01...9999 s |
| Fysisk interface | Ethernet 2-wire RS 485 |
| Bremsning ved stilstand | Med DC indsprøjtning |

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| Beskyttelsestype | Thermal protection: motor Safe torque off: motor Motor phase break motor Thermal protection: drive Safe torque off: drive Overheating: drive Overcurrent between output phases and earth: drive Overload of output voltage: drive Short-circuit protection: drive Motor phase break drive Overtvoltages on the DC bus: drive Line supply overvoltage: drive Line supply undervoltage: drive Line supply phase loss: drive Overspeed: drive Break on the control circuit: drive |
| Transmissionshastighed | 10, 100 Mbits 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps |
| Frekvensopløsning | Display unit: 0.1 Hz Analog input: 0.012/50 Hz |
| Transmissionsstel | RTU |
| Elektrisk tilslutning | Control: removable screw terminals 0.5...1.5 mm ² /AWG 20...AWG 16 Motor: screw terminal 2.5...6 mm ² /AWG 14...AWG 10 Line side: screw terminal 2.5...6 mm ² /AWG 14...AWG 10 |
| Stiktype | RJ45 (on the remote graphic terminal) for Ethernet/Modbus TCP RJ45 (on the remote graphic terminal) for Modbus serial |
| Dataformat | 8 bits, konfigurerbar odd, even eller ingen paritet |
| Polaritetstype | Ingen impedance |
| Exchange mode | Half duplex, full duplex, autonegotiation Ethernet/Modbus TCP |
| Antal adresser | 1..247 for Modbus serial |
| Tilgangsmetode | Slave Modbus TCP |
| Forsyning | External supply for digital inputs: 24 V DC (19...30 V), <1.25 mA, protection type: overload and short-circuit protection Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V DC +/- 5 %, <10 mA, protection type: overload and short-circuit protection Internal supply for digital inputs and STO: 24 V DC (21..27 V), <200 mA, protection type: overload and short-circuit protection |
| Lokal indikering | 3 LEDs for local diagnostic 3 LEDs (dual colour) for embedded communication status 4 LEDs (dual colour) for communication module status 1 LED (red) for presence of voltage |
| Bredde | 144 mm |
| Højde | 350 mm |
| Dybde | 203 mm |
| Vægt | 4,3 kg |
| Analoge Indgange | 3 |

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| Analog indgangstype | AI1, AI2, AI3 software-configurable voltage: 0...10 V DC, impedance: 31.5 kOhm, resolution 12 bits AI1, AI2, AI3 software-configurable current: 0...20 mA, impedance: 250 Ohm, resolution 12 bits AI2 voltage analog input: - 10...10 V DC, impedance: 31.5 kOhm, resolution 12 bits |
| Digital indgangsnummer | 8 |
| Digital indgangstype | DI7, DI8 programmable as pulse input: 0... 30 kHz, 24 V DC (<= 30 V) |
| Indgangsmuligheder | DI1...DI6: discrete input level 1 PLC conforming to EN/IEC 61131-2 DI5, DI6: discrete input level 1 PLC conforming to IEC 65A-68 STOA, STOB: discrete input level 1 PLC conforming to EN/IEC 61131-2 |
| Digital indgangslogik | Positive logic (source) (DI1...DI8), < 5 V (state 0), > 11 V (state 1) Negative logic (sink) (DI1...DI8), > 16 V (state 0), < 10 V (state 1) |
| Analoge udgange | 2 |
| Analog udgangstype | Software-configurable voltage AQ1, AQ2: 0...10 V DC impedance 470 Ohm, resolution 10 bits Software-configurable current AQ1, AQ2: 0...20 mA, resolution 10 bits Software-configurable current DQ-, DQ+: 30 V DC Software-configurable current DQ-, DQ+: 100 mA |
| Prøvevarighed | 2 ms +/- 0.5 ms (DI1...DI4) - discrete input 5 ms +/- 1 ms (DI5, DI6) - discrete input 5 ms +/- 0.1 ms (AI1, AI2, AI3) - analog input 10 ms +/- 1 ms (AO1) - analog output |
| Nøjagtighed | +/- 0.6 % AI1, AI2, AI3 for a temperature variation 60 °C analog input +/- 1 % AO1, AO2 for a temperature variation 60 °C analog output |
| Linearitetsfejl | AI1, AI2, AI3: +/- 0.15 % of maximum value for analog input AO1, AO2: +/- 0.2 % for analog output |
| Relæ output antal | 3 |
| Relæ output type | Configurable relay logic R1: fault relay NO/NC electrical durability 100000 cycles Configurable relay logic R2: sequence relay NO electrical durability 100000 cycles Configurable relay logic R3: sequence relay NO electrical durability 100000 cycles |
| Opdateringstid | Relay output (R1, R2, R3): 5 ms (+/- 0.5 ms) |
| Minimum sluttestrøm | Relay output R1, R2, R3: 5 mA at 24 V DC |
| Maksimum sluttestrøm | Relay output R1, R2, R3 on resistive load, cos phi = 1: 3 A at 250 V AC Relay output R1, R2, R3 on resistive load, cos phi = 1: 3 A at 30 V DC Relay output R1, R2, R3 on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 250 V AC Relay output R1, R2, R3 on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 30 V DC |
| Adskillelse | Mellem strøm og kontrol terminaler |
| Maximum output frequency | 500 kHz |
| Maximum input current | 5,9 A |

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| Variable speed drive application selection | Kompressor centrifugal Bygnings HVAC Other application Fødevarer Ventilator Mining mineral and metal Pumpe Mining mineral and metal Ventilator Olie og gas Other application Vand og spildevand Screw compressor Bygnings HVAC Pumpe Fødevarer Ventilator Fødevarer Atomization Fødevarer Electro submersible pump (ESP) Olie og gas Vandpumpe Olie og gas Benzinpumpe Olie og gas Kompressor til refinery Olie og gas Centrifuge pump Vand og spildevand Positive displacement pump Vand og spildevand Electro submersible pump (ESP) Vand og spildevand Screw pump Vand og spildevand Lobe compressor Vand og spildevand Screw compressor Vand og spildevand Kompressor centrifugal Vand og spildevand Ventilator Vand og spildevand Transportbånd Vand og spildevand Mixer Vand og spildevand |
| Motor power range AC-3 | 1.1..2 kW at 200..240 V 3 phases |
| Antal pr. Sæt | 1 |
| Kapslingsmontage | Væg monteret |
| miljø | |
| Isolationsmodstand | > 1 MOhm 500 V DC for 1 minute to earth |
| Støjgrænse | 54.5 dB conforming to 86/188/EEC |
| Effekttab i W | Naturlig køling: 29 W ved 200 V 4 kHz Tvangskøling: 53 W ved 200 V 4 kHz |
| Volumen på køleluft | 38 m3/h |
| Driftsstilling | Vertikal +/- 10 grad |
| Maximum THDI | <48 % full load conforming to IEC 61000-3-12 |
| Elektromagnetisk kompatibilitet | Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 |
| Forureningsgrad | 2 conforming to EN/IEC 61800-5-1 |
| Vibrationsmodstand | 1.5 mm peak to peak (f= 2...13 Hz) conforming to IEC 60068-2-6 1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6 |
| Modstandsdygtighed overfor stød | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| Relativ fugtighed | 5..95 % without condensation conforming to IEC 60068-2-3 |
| Temperatur ved drift | -15..50 °C (without derating) 50..60 °C (with derating factor) |
| Omgivelsestemperatur ved opbevaring | -40..70 °C |
| Driftshøjde | <= 1000 m without derating 1000...4800 m with current derating 1 % per 100 m |

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| Standarder | UL 508C EN/IEC 61800-3 Environment 1 category C2 EN/IEC 61800-3 Environment 2 category C3 EN/IEC 61800-3 EN/IEC 61800-5-1 IEC 61000-3-12 IEC 60721-3 IEC 61508 IEC 13849-1 |
| Produktcertificeringer | ATEX INERIS CSA TÜV ATEX zone 2/22 DNV-GL UL |
| Mærkning | CE |
| Standarder | UL 508C EN/IEC 61800-3 EN/IEC 61800-3 environment 1 category C2 EN/IEC 61800-3 environment 2 category C3 EN/IEC 61800-5-1 IEC 61000-3-12 IEC 60721-3 IEC 61508 IEC 13849-1 |
| Overspændingskategori | III |
| Regulation loop | Justerbar PID regulator |
| Støj niveau | 54,5 dB |
| Forureningsgrad | 2 |
| Packing Units | |
| Enhedstype forpakning 1 | PCE |
| Antal enheder forpakning 1 | 1 |
| Förpackning 1 vægt | 5,892 kg |
| Förpackning 1 højde | 31,5 cm |
| Förpackning 1 bredde | 19 cm |
| Förpackning 1 længde | 40,5 cm |
| Enhedstype forpakning 2 | P06 |
| Antal enheder forpakning 2 | 6 |
| Förpackning 2 vægt | 48,35 kg |
| Förpackning 2 højde | 73,5 cm |
| Förpackning 2 bredde | 60 cm |
| Förpackning 2 længde | 80 cm |
| Offer Sustainability | |
| Bæredygtighed | Green Premium-produkt |
| REACH-regulering | REACH-erklæring |
| EU RoHS-direktiv | Proaktiv overensstemmelse (produkt ikke omfattet af EU RoHS) EU RoHS-erklæring |
| Kviksølvfri | Ja |
| Oplysninger om RoHS-undtagelse | Ja |

Kina RoHS-regulering [Kina RoHS-erklæring](#)**WEEE**

Produktet skal bortskaffes på et marked i den europæiske union i henhold til specifik affaldssamling og må aldrig bortskaffes sammen med husholdningsaffald.

California Proposition 65

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. For more information go to www.P65Warnings.ca.gov

Opgraderbarhed [Opgraderede komponenter er til rådighed](#)