



Teknisk informasjon

Produktspekter	Altivar Machine ATV320
Produkt eller type komponent	Frekvensomformer
Produktspesifikk applikasjon	Komplekse maskiner
Variant	Med frakoblingsbryter Standard versjon Standard versjon
Formatet på driv	Enclosed
Monteringsmetode	Veggmontering
Kommunikasjonsprotokoll	Modbus serial CANopen
Funksjonskort	Communication module, CANopen Communication module, EtherCAT Communication module, Profibus DP V1 Communication module, Profinet Communication module, Ethernet Powerlink Communication module, EtherNet/IP Communication module, DeviceNet
[Us] matespenning	380...500 V - 15...10 %
Nominell utgangsstrøm	2,3 A
Motoreffekt kW	0.75 kW for heavy duty
EMC filter	Klasse C2 EMC filter integrert
IP grad av beskyttelse	IP65

Komplementær

Discrete input number	7
Discrete input type	STO safe torque off, 24 V DC, impedance: 1.5 kOhm DI1...DI6 logic inputs, 24 V DC (30 V) DI5 programmable as pulse input: 0...30 kHz, 24 V DC (30 V)
Diskrét inngangs logikk	Positiv logikk (kilde) Negativ logikk (sink)
Discrete output number	3
Digitale utganger	Open collector DQ+ 0...1 kHz 30 V DC 100 mA Open collector DQ- 0...1 kHz 30 V DC 100 mA
Antall analoge innganger	3
Analogue input type	AI1 voltage: 0...10 V DC, impedance: 30 kOhm, resolution 10 bits AI2 bipolar differential voltage: +/- 10 V DC, impedance: 30 kOhm, resolution 10 bits AI3 current: 0...20 mA (or 4-20 mA, x-20 mA, 20-x mA or other patterns by configuration), impedance: 250 Ohm, resolution 10 bits
Analog utgangsnummer	1
Analog utgangstype	Software-configurable current AQ1: 0...20 mA impedance 800 Ohm, resolution 10 bits Software-configurable voltage AQ1: 0...10 V DC impedance 470 Ohm, resolution 10 bits
Reléutgangstype	Configurable relay logic R1A 1 NO electrical durability 100000 cycles Configurable relay logic R1B 1 NC electrical durability 100000 cycles Configurable relay logic R1C Configurable relay logic R2A 1 NO electrical durability 100000 cycles Configurable relay logic R2C

Maximum svitsjestrøm	Relay output R1A, R1B, R1C on resistive load, cos phi = 1: 3 A at 250 V AC Relay output R1A, R1B, R1C on resistive load, cos phi = 1: 3 A at 30 V DC Relay output R1A, R1B, R1C, R2A, R2C on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 250 V AC Relay output R1A, R1B, R1C, R2A, R2C on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 30 V DC Relay output R2A, R2C on resistive load, cos phi = 1: 5 A at 250 V AC Relay output R2A, R2C on resistive load, cos phi = 1: 5 A at 30 V DC
Minimum brytestrøm	Relay output R1A, R1B, R1C, R2A, R2C: 5 mA at 24 V DC
Tilgangsmetode	Slave CANopen
4 quadrant operation possible	True
Motorkontroll metode	Spennings- / frekvensforhold, 5 poeng Fluks vektor kontroll uten sensor, standard Spennings- / frekvensforhold - Energy Saving, kvadratisk U / f Fluks vektor kontroll uten sensor - Energy Saving Spennings- / frekvensforhold, 2 poeng
Synchronous motor control profile	Vector control without sensor
Maximum output frequency	0,599 kHz
Forbigående overbelastning (vridmoment)	170...200 % of nominal motor torque
Akselerasjons- og retardasjonsramper	Lineær U S CUS Rampe veksling Acceleration/Deceleration ramp adaptation Acceleration/deceleration automatic stop with DC injection
Motor slip kompensasjon	Automatic whatever the load Regulerbar 0...300 % Not available in voltage/frequency ratio (2 or 5 points)
Switching frequency	2...16 kHz adjustable 4...16 kHz with derating factor
Nominell svitsjefrekvens	4 kHz
Bremsing til stillstand	Ved DC-bremsing
Brake chopper integrated	True
Nettstrøm	3,6 A på 380 V (heavy duty) 2,8 A på 500 V (heavy duty)
Maximum input current	3,6 A
Maximum output voltage	500 V
Tilsynelatende effekt	2,4 kVA på 500 V (heavy duty)
Nettverksfrekvens	50...60 Hz
Relative symmetric network frequency tolerance	5 %
Maks kortslutningsnivå I _{sc}	5 kA
Base load current at high overload	14,3 A
Effekttap i W	Selvkjølte: 32,0 W på 380 V, vekslingsfrekvens 4 kHz
With safety function Safely Limited Speed (SLS)	True
With safety function Safe brake management (SBC/ SBT)	False
With safety function Safe Operating Stop (SOS)	False
With safety function Safe Position (SP)	False
With safety function Safe programmable logic	False
With safety function Safe Speed Monitor (SSM)	False
With safety function Safe Stop 1 (SS1)	True
With sft fct Safe Stop 2 (SS2)	False
With safety function Safe torque off (STO)	True
With safety function Safely Limited Position (SLP)	False
With safety function Safe Direction (SDI)	False
Beskyttelsestype	Input phase breaks: drive Overcurrent between output phases and earth: drive Overheating protection: drive Short-circuit between motor phases: drive Thermal protection: drive
Bredde	250 mm
Høyde	340 mm

Dybde	200 mm
Vekt	6,3 kg

Miljø

Driftsposisjon	Vertikal +/- 10 grader
Produktsertifikater	CE ATEX NOM GOST EAC RCM KC
Merking	CE ATEX UL CSA EAC RCM
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 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
Environmental class (during operation)	Class 3C3 according to IEC 60721-3-3 Class 3S2 according to IEC 60721-3-3
Maximum acceleration under shock impact (during operation)	150 m/s ² at 11 ms
Maximum acceleration under vibrational stress (during operation)	10 m/s ² at 13...200 Hz
Maximum deflection under vibratory load (during operation)	1.5 mm at 2...13 Hz
Permitted relative humidity (during operation)	Class 3K5 according to EN 60721-3
Overspenningskategori	III
Reguleringssløyfe	Justerbar PID regulator
Hastighet nøyaktighet	+/- 10 % of nominal slip 0.2 Tn to Tn
Forurensninggrad	3
Ambient air transport temperature	-25...70 °C
Omgivelsestemperatur for drift	-10...40 °C uten lastreduksjon 40...60 °C med belastningsfaktor
Omgivelsestemperatur for lagring	-25...70 °C

Packing Units

Enhetstype forpakning 1	PCE
Antall enheter forpakning 1	1
Forpakning 1 vekt	8,3 kg
Forpakning 1 høyde	25,8 cm
Forpakning 1 bredde	30,5 cm
Forpakning 1 lengde	45 cm

Offer Sustainability

Produktets miljøstatus	Green Premium miljømerket produkt
REACH-regelverk	 REACH-erklæring
EU RoHS-direktiv	Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet)  EU RoHS-erklæring
Kvikksølvfri	Ja
Informasjon om RoHS-unntak	 Ja
Kinas RoHS-forskrift	 Kinas RoHS-Erklæring
Miljøinformasjon	 Produktmiljøprofil

Produktets livssyklus	 Informasjon Om Levetidsslutt
WEEE	Innen EU må produktet avhendes i henhold til bestemte regler for avfallshåndtering og aldri kastes som husholdningsavfall.
Oppgraderbarhet	 Oppgraderte Komponenter Tilgjengelig

Contractual warranty

Garanti	18 måneder
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