



Main

Range of product	Altivar 71
Product or component type	Variable speed drive
Product specific application	Complex, high-power machines
Component name	ATV71
Motor power kW	11 kW, 3 phases at 380...480 V
Motor power hp	15 Hp, 3 phases at 380...480 V
Maximum motor cable length	50 M shielded cable 100 M unshielded cable
[Us] rated supply voltage	380...480 V - 15...10 %
Network number of phases	3 phases
Line current	30 A for 480 V 3 phases 11 kW / 15 hp 36.6 A for 380 V 3 phases 11 kW / 15 hp
EMC filter	Integrated
Assembly style	With heat sink
Variant	Control synchronous motors with speed feedback
Apparent power	24.1 KVA at 380 V 3 phases 11 kW / 15 hp
Prospective line I _{sc}	22 KA for 3 phases
Nominal output current	21 A at 4 kHz 460 V 3 phases 11 kW / 15 hp 27.7 A at 4 kHz 380 V 3 phases 11 kW / 15 hp
Maximum transient current	41.6 A for 60 s 3 phases 11 kW / 15 hp 45.7 A for 2 s 3 phases 11 kW / 15 hp
Output frequency	0.1...599 Hz
Nominal switching frequency	4 kHz
Switching frequency	1...16 kHz adjustable 4...16 kHz with derating factor

Complementary

Product destination	Asynchronous motors Synchronous motors
Supply voltage limits	323...528 V
Supply frequency	50...60 Hz - 5...5 %
Network frequency	47.5...63 Hz
Torque accuracy	+/- 15 % in open-loop mode, without speed feedback +/- 5 % in closed-loop mode with encoder feedback
Transient overtorque	170 % of nominal motor torque +/- 10 % for 60 s every 10 minutes 220 % of nominal motor torque +/- 10 % for 2 s
Braking torque	<= 150 % with braking or hoist resistor 30 % without braking resistor

Local signalling	1 LED (red)drive voltage:
Output voltage	<= power supply voltage
Insulation	Electrical between power and control
Supply	Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V D-C +/- 5 %, <10 mA, protection type: overload and short-circuit protection Internal supply: 24 V DC (21...27 V), <200 mA, protection type: overload and short-circuit protection
Analogue input number	2
Analogue output number	1
Discrete output number	2
Minimum switching current	3 MA at 24 V DC for configurable relay logic
Discrete input number	7
Communication port protocol	Modbus CANopen
Marking	CE
Operating position	Vertical +/- 10 degree
Height	295 Mm
Depth	213 Mm
Width	210 Mm
Net weight	8 Kg

Environment

Noise level	57.4 DB conforming to 86/188/EEC
Pollution degree	2 conforming to EN/IEC 61800-5-1
Vibration resistance	1 gn (f= 13...200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f= 3...13 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn for 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 operation	-10...50 °C (without)
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without 1000...3000 m with current derating 1 % per 100 m

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product Life Status : **Commercialised**