



### 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	30 KW, 3 phases at 380...480 V
Motor power hp	40 Hp, 3 phases at 380...480 V
Maximum motor cable length	100 M shielded cable 200 M unshielded cable
[Us] rated supply voltage	380...480 V - 15...10 %
Network number of phases	3 phases
Line current	56 A for 480 V 3 phases 30 kW / 40 hp 66 A for 380 V 3 phases 30 kW / 40 hp
EMC filter	Integrated
Assembly style	With heat sink
Variant	Control synchronous motors with speed feedback
Apparent power	43.4 KVA at 380 V 3 phases 30 kW / 40 hp
Prospective line I <sub>sc</sub>	22 KA for 3 phases
Nominal output current	52 A at 4 kHz 460 V 3 phases 30 kW / 40 hp 66 A at 4 kHz 380 V 3 phases 30 kW / 40 hp
Maximum transient current	109 A for 2 s 3 phases 30 kW / 40 hp 99 A for 60 s 3 phases 30 kW / 40 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	Synchronous motors Asynchronous 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	550 Mm
Depth	266 Mm
Width	240 Mm
Net weight	37 Kg

## Environment

Noise level	64 DB conforming to 86/188/EEC
Pollution degree	2 conforming to EN/IEC 61800-5-1 3 conforming to UL 840
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	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
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**