



Commercial status

To be discontinued on: 31 December 2024

To be end-of-service on: 31 December 2032

❗ To be discontinued

Main

Device short name	AIC
Network number of phases	3 phases
[Us] rated supply voltage	380...480 V +/- 10 %
Network frequency	50/60 Hz
Rated power in W	120 kW
Range compatibility	Altivar 61 Altivar 71
Product specific application	Low harmonics Energy regeneration Component of the Active Front End
Product compatibility	ATV61HC11N4D 380...440 V AC with one variable speed drive ATV71HD90N4D 380...440 V AC with one variable speed drive ATV61HC11N4D 480 V AC with one variable speed drive ATV71HD90N4D 480 V AC with one variable speed drive ATV61H075N4...C25N4D DC with several variable speed drive on a common DC bus ATV71H075N4...C20N4D DC with several variable speed drive on a common DC bus
Assembly style	Built-in unit
Type of cooling	Forced convection

Complementary

Line current	177 A at 400 V 160 A at 480 V
Input power	123 kW at 400 V 133 kW at 480 V
Continuous output current	185 A at 400 V 163 A at 480 V
Output voltage	650 V DC - supply: 380...400 V AC 720 V DC - supply: 440 V AC 770 V DC - supply: 480 V AC
Thermal losses	2250 W
Max current	1.20 x nominal current (duration = 60 s) 1.35 x nominal current (duration = 2 s)

Maximum voltage drop at rated load	<30 % at 380...400 V, <= 60 s <40 % at 440 V, <= 60 s <40 % at 480 V, <= 60 s
Communication port protocol	CANopen Modbus
Connector type	1 RJ45 for Modbus Male SUB-D 9 on RJ45 for CANopen
Option card	Communication bridge
Operating position	Vertical +/- 10 degree
Height	680 mm
Width	310 mm
Depth	377 mm
Net weight	60 kg

Environment

Environmental characteristic	3K3 conforming to EN/IEC 60721-3-3 3C2 conforming to EN 60721-3-3 3S2 conforming to EN 60721-3-3
Relative humidity	0...95 %
Ambient air temperature for operation	45...60 °C (with current derating of 2 % per °C) -10...45 °C
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without derating 1000...3000 m with current derating 1 % per 100 m
Pollution degree	2 conforming to EN 61800-5-1
Vibration resistance	1.5 mm (f= 3...10 Hz) conforming to EN/IEC 60068-2-6 0.6 gn (f= 10...200 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	7 gn for 11 ms conforming to EN/IEC 60721-3-3
Air flow surface	500 cm²
Volume of cooling air	400 m³/h for power circuit 115 m³/h for control circuit
IP degree of protection	IP00
Standards	EN/IEC 61800-5-1
Product certifications	CE UL (pending) CSA (pending)

Packing Units

Package 1 Weight	80.000 kg
Package 1 Height	5.300 dm
Package 1 width	4.200 dm
Package 1 Length	12.300 dm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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