Product datasheet

Specifications

Medium Voltage Variable Speed Drive, Altivar Process ATV6100, 6.0kV, 2800kVA

ATV6100C280A6060NA

Main

Range of product	Altivar Process ATV6100
Device short name	ATV6100
Product or component type	Variable speed drive
Product specific application	Process and utilities
Colour of enclosure	Light grey (RAL 7035)
IP degree of protection	IP41 conforming to IEC 61800-5-1 (IEC 60529)
Type of cooling	Forced convection
Output type	IGBT inverter cells multilevel PWM
[Us] rated supply voltage	6 kV (- 10...10 %) for 3 phases
Supply frequency	50 Hz - 5...5 %
Network number of phases	3 phases
Prospective line Isc	31.5 kA for 150 ms
Output voltage	<= power supply voltage
Permissible temporary current boost	1.2 x In during 60 s (normal duty) 1.5 x In during 3 s (normal duty) 1.5 x In during 60 s (heavy duty) 1.8 x In during 3 s (heavy duty)
Speed drive output frequency	0.1…120 Hz
Frequency resolution	0.01 Hz
Product destination	Asynchronous motors Synchronous motors Permanent magnet motors
Asynchronous motor control profile	Voltage/frequency ratio (V/f) Vector control with/without speed feedback
Synchronous motor control profile	Voltage/frequency ratio (V/f) Vector control with speed feedback Vector control without speed feedback
Apparent power	2800 kVA
Maximum THDI	<5 % 100% load conforming to IEEE 519-2022
Power factor	96
Motor power kW	2240 kW for normal duty 1940 kW for heavy duty
Motor power hp	3002 hp for normal duty 2601 hp for heavy duty
Continuous output current	258 A normal duty 224 A heavy duty

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Maximum transient current	309.6 A during 60 s (normal duty) 336.0 A during 60 s (heavy duty) 387 A during 3 s (normal duty) 420.0 A during 3 s (heavy duty)
Line current	269.5 A normal duty 214 A heavy duty
cable entry	Bottom
Width	4450 mm
Depth	1400 mm
Height	2925 mm
Net weight	6700 kg
Noise level	83 dB
EMC filter	Integrated conforming to EN/IEC 61800-3 category C4 power Integrated conforming to EN/IEC 61800-3 category C3 control
Display type	10 inch LCD touch screen multi-language

Complementary

Relay output type	Relay outputs 1 NO + 1 NO electrical durability 30000 cycles Relay outputs 8 NO electrical durability 100000 cycles
Overvoltage category	III conforming to EN/IEC 61800-5-1 line side II conforming to EN/IEC 61800-5-1 motor side II conforming to EN/IEC 61800-5-1 low voltage control compartment III conforming to EN/IEC 61800-5-1 low voltage connections

Environment

Pollution degree	2 conforming to IEC 61800-5-1
Environmental characteristic	C2 conforming to IEC 60721-3-3 3B1 conforming to IEC 60721-3-3 3S6 conforming to IEC 60721-3-3 3M11 conforming to IEC 60721-3-3 3K22 conforming to IEC 60721-3-3
Relative humidity	5…90 % without condensation conforming to IEC 60068-2-2
Ambient air temperature for operation	0…40 °C 40…50 °C with derating factor
Ambient air temperature for storage	-10…60 °C
Operating altitude	<= 1000 m without derating <= 2000 m with derating factor <= 5000 m with conditions
Standards	EN/IEC 61800-3 EN/IEC 61800-4 EN/IEC 61800-5-1 IEC/EN 60529 IEEE 519
Marking	CE
Product certifications	CE

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

Lifetime extension

Repair	**No**

Image of product / Alternate images

Alternative