

# Product datasheet

Specifications



## Medium Voltage Variable Speed Drive, Altivar Process ATV6100, 6.0kV, 870kVA

ATV6100D870A6060NA

### 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 I <sub>sc</sub>	31.5 kA for 150 ms
Output voltage	<= power supply voltage
Permissible temporary current boost	1.2 x I <sub>n</sub> during 60 s (normal duty) 1.5 x I <sub>n</sub> during 3 s (normal duty) 1.5 x I <sub>n</sub> during 60 s (heavy duty) 1.8 x I <sub>n</sub> 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	870 kVA
Maximum THDI	<5 % 100% load conforming to IEEE 519-2022
Power factor	96
Motor power kW	696 kW for normal duty 550 kW for heavy duty
Motor power hp	933 hp for normal duty 737 hp for heavy duty
Continuous output current	80 A normal duty 64 A heavy duty

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

<b>Maximum transient current</b>	96.0 A during 60 s (normal duty) 96.0 A during 60 s (heavy duty) 120 A during 3 s (normal duty) 120.0 A during 3 s (heavy duty)
<b>Line current</b>	83.8 A normal duty 61.0 A heavy duty
<b>cable entry</b>	Bottom
<b>Width</b>	2800 mm
<b>Depth</b>	1450 mm
<b>Height</b>	2750 mm
<b>Net weight</b>	3485 kg
<b>Noise level</b>	80 dB
<b>EMC filter</b>	Integrated conforming to EN/IEC 61800-3 category C4 power Integrated conforming to EN/IEC 61800-3 category C3 control
<b>Display type</b>	10 inch LCD touch screen multi-language

## Complementary

<b>Relay output type</b>	Relay outputs 1 NO + 1 NO electrical durability 30000 cycles Relay outputs 8 NO electrical durability 100000 cycles
<b>Overvoltage category</b>	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

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

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