

Product datasheet

Specifications



Medium Voltage Variable Speed Drive, Altivar Process ATV6100, 6.0kV, 3940kVA

ATV6100C394A6060NA

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 | 3940 kVA |
| Maximum THDI | <5 % 100% load conforming to IEEE 519-2022 |
| Power factor | 96 |
| Motor power kW | 3152 kW for normal duty 2570 kW for heavy duty |
| Motor power hp | 4224 hp for normal duty 3446 hp for heavy duty |
| Continuous output current | 363 A normal duty 296 A heavy duty |

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

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|----------------------------------|--|
| Maximum transient current | 435.6 A during 60 s (normal duty) 444.0 A during 60 s (heavy duty) 544.5 A during 3 s (normal duty) 555.0 A during 3 s (heavy duty) |
| Line current | 379.2 A normal duty 283.0 A heavy duty |
| cable entry | Bottom |
| Width | 4850 mm |
| Depth | 1500 mm |
| Height | 3125 mm |
| Net weight | 9350 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

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|-----------------------------|---|
| 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

