Product data sheet
Characteristics

ATV310L075N4
variable speed drive ATV310L - 0.75kW - 380..460V - 3 phases



Commercial status
End of Commercialisation : JAN 07, 2022

⚠ End of Commercialisation

Main

Range of product	Easy Altivar 310L
Product or component type	Variable speed drive
Product specific application	Simple machine
Assembly style	With heat sink
Device short name	ATV310L
Network number of phases	3 phases
[Us] rated supply voltage	380...460 V - 15...10 %
Motor power kW	0.75 KW

Complementary

Product destination	Asynchronous motors
Quantity per set	Set of 1
EMC filter	Without EMC filter
Supply frequency	50...60 Hz - 5...5 %
Communication port protocol	AS-Interface
Connector type	M12 (on front face) for AS-Interface
Physical interface	AS-Interface for AS-Interface
Transmission frame	AS-Interface for AS-Interface
Transmission rate	Autodetected for AS-Interface
Line current	3.5 A at 380 V 3.1 A at 460 V
Apparent power	2.5 KVA
Prospective line Isc	5 KA
Continuous output current	2.3 A
Maximum transient current	3.5 A
Speed drive output frequency	0.1…400 Hz
Nominal switching frequency	4 kHz
Switching frequency	2...12 kHz adjustable with derating factor
Transient overtorque	170…200 %
Braking torque	Up to 150 % of nominal motor torque with braking resistor at high inertia Up to 70 % of nominal motor torque without braking resistor
Asynchronous motor control profile	Voltage/Frequency ratio, 2 points Flux vector control without sensor, standard Voltage/Frequency ratio - Energy Saving, quadratic U/f
Motor slip compensation	Adjustable Preset in factory
Output voltage	380...460 V

Analogue input number	0
Discrete input number	4
Analogue output number	0
Discrete output number	2
Acceleration and deceleration ramps	S Linear from 0...999.9 s U
Braking to standstill	By DC injection
Protection type	Line supply overvoltage Line supply undervoltage Overcurrent between output phases and earth Overheating protection Short-circuit between motor phases Against input phase loss in three-phase Thermal motor protection via the drive by continuous calculation of I^2t
Frequency resolution	Display unit: 0.1 Hz
Marking	CE
Operating position	Vertical +/- 10 degree
Height	210 Mm
Width	445 Mm
Depth	171 Mm
Net weight	6.9 Kg

Environment

Standards	EN 55011 class A group 1 EN 61800-3 environments 1 category C2 EN 61800-3 environments 2 category C2 EN/IEC 61800-3 EN/IEC 61800-5-1
Product certifications	CE
IP degree of protection	IP54 conforming to EN/IEC 61800-5-1
Pollution degree	2 conforming to EN/IEC 61800-5-1
Shock resistance	15 gn conforming to EN/IEC 60068-2-27 for 11 ms
Operating altitude	1000...3000 m with current derating 1 % per 100 m 1000...2000 m with current derating 1 % per 100 m <= 1000 m without derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.0 Cm
Package 1 Width	44.5 Cm
Package 1 Length	17.1 Cm
Package 1 Weight	8.8 Kg
Unit Type of Package 2	P06
Number of Units in Package 2	6
Package 2 Height	73.5 Cm
Package 2 Width	60.0 Cm
Package 2 Length	80.0 Cm
Package 2 Weight	57.8 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 967 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	121.72086967025548
Carbon footprint of the manufacturing phase [A1 to A3]	122 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2.482089850347524
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.06966690424160984
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1832.6711111914103

Carbon footprint of the use phase [B2, B3, B4, B6]	1 833 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	10.452657749811388
Carbon footprint of the end-of-life phase [C1 to C4]	10 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1967
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
Product contributes to saved and avoided emissions	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation

ATV310L075N4 may be replaced by any of the following products:



ATV310L075N4T

variable speed drive, Altivar ATV310L, 0.75kW, 380 to 460V, 3 phases, 3 poles key switch

Qty 1

Substitution date: |