

Technical drawing of the back of a mobile phone, showing dimensions in mm and inches.

Dimensions (mm / inches):

- Top width: 168 / 6.61
- Top width (inner): 8.5 / 0.33
- Top width (outer): 7 / 0.27
- Top width (corner): 13.8 / 0.54
- Top width (corner): 8.5 / 0.33
- Top width (corner): 0.6 / 0.24
- Height: 168 / 6.61
- Bottom width: 72.1 / 2.84
- Bottom width (inner): 6.5 / 0.26

SCHNEIDER VARIATOR DE VITEZA ALTIVAR ATV900 - 22KW - 30HP - 400/480V - IP21	
device application	Industrial application
device short name	ATV930
product destination	Synchronous motors Asynchronous motors
EMC filter	Integrated with 50 m conforming to EN/IEC 61800-3 category C2 Integrated with 150 m conforming to EN/IEC 61800-3 category C3
IP degree of protection	IP21 conforming to IEC 61800-5-1 IP21 conforming to IEC 60529
degree of protection	UL type 1 conforming to UL 508C
type of cooling	Forced convection
supply frequency	50...60 Hz +/- 5 %
network number of phases	3 phases
motor power kW	22 kW (normal duty) 18.5 kW (heavy duty)
motor power hp	30 hp normal duty 25 hp heavy duty
line current	39.6 A at 380 V (normal duty) 34.4 A at 480 V (normal duty) 34.1 A at 380 V (heavy duty) 29.9 A at 480 V (heavy duty)
continuous output current	46.3 A at 4 kHz for normal duty 39.2 A at 4 kHz for heavy duty
maximum transient current	55.6 A during 60 s (normal duty) 58.8 A during 60 s (heavy duty)
speed drive output frequency	0.1...599 Hz
safety function	STO (safe torque off) SIL 3
option module	Slot A: communication module for Profibus DP V1 Slot A: communication module for Profinet Slot A: communication module for DeviceNet Slot A: communication module for EtherCAT Slot A: communication module for CANopen daisy chain RJ45 Slot A: communication module for CANopen SUB-D 9 Slot A: communication module for CANopen screw terminals Slot A/slot B/slot C: digital and analog I/O extension module Slot A/slot B/slot C: output relay extension module Slot B: 5/12 V digital encoder interface module Slot B: analog encoder interface module Slot B: resolver encoder interface module communication module for Ethernet Powerlink
range of product	Altivar Process ATV900
product or component type	Variable speed drive
variant	Standard version With braking chopper
mounting mode	Wall mount
communication port protocol	Modbus serial EtherNet/IP Modbus TCP
[Us] rated supply voltage	380...480 V - 15...10 %
IP degree of protection	IP21
Complementary	

output voltage	<= power supply voltage
frequency resolution	Display unit: 0.1 Hz Analog input: 0.012/50 Hz
electrical connection	Control: screw terminal 0.5...1.5 mm ² /AWG 20...AWG 16 Line side: screw terminal 10...16 mm ² /AWG 8...AWG 6 DC bus: screw terminal 10...16 mm ² /AWG 8...AWG 6 Motor: screw terminal 16 mm ² /AWG 6
connector type	2 RJ45 for Ethernet IP/Modbus TCP on the control block 1 RJ45 for Modbus serial on the control block
physical interface	2-wire RS 485 for Modbus serial
transmission frame	RTU for Modbus serial
transmission rate	10/100 Mbit/s for Ethernet IP/Modbus TCP 4.8, 9.6, 19.2, 38.4 kbit/s for Modbus serial
exchange mode	Half duplex, full duplex, autonegotiation Ethernet IP/Modbus TCP
data format	8 bits, configurable odd, even or no parity for Modbus serial
type of polarization	No impedance for Modbus serial
number of addresses	1...247 for Modbus serial
supply	External supply for digital inputs: 24 V DC (19...30 V), Internal supply for reference potentiometer (1 to 10 kOhm): 10.5 V DC +/- 5 %, Internal supply for digital inputs and STO: 24 V DC (21...27 V),
local signalling	Local diagnostic: 3 LED (mono/dual colour) Embedded communication status: 5 LED (dual colour) Communication module status: 2 LED (dual colour) Presence of voltage: 1 LED (red)
input compatibility	DI1...DI8: discrete input level 1 PLC conforming to EN/IEC 61131-2 DI7, DI8: pulse input level 1 PLC conforming to IEC 65A-68 STOA, STOB: discrete input level 1 PLC conforming to EN/IEC 61131-2
discrete input logic	Positive logic (source) (DI1...DI8), < 5 V (state 0), > 11 V (state 1) Negative logic (sink) (DI1...DI8), > 16 V (state 0), < 10 V (state 1) Positive logic (source) (DI7, DI8), < 0.6 V (state 0), > 2.5 V (state 1) Positive logic (source) (STOA, STOB), < 5 V (state 0), > 11 V (state 1)
sampling duration	2 ms +/- 0.5 ms (DI1...DI8) - discrete input 5 ms +/- 1 ms (DI7, DI8) - pulse input 1 ms +/- 1 ms (AI1, AI2, AI3) - analog input 5 ms +/- 1 ms (AQ1, AQ2) - analog output
accuracy	+/- 0.6 % AI1, AI2, AI3 for a temperature variation 60 °C analog input +/- 1 % AQ1, AQ2 for a temperature variation 60 °C analog output
linearity error	AI1, AI2, AI3: +/- 0.15 % of maximum value for analog input AQ1, AQ2: +/- 0.2 % for analog output
refresh time	Relay output (R1, R2, R3): 5 ms (+/- 0.5 ms)
isolation	Between power and control terminals
Variable speed drive application selection	Food and beverage processing Mixer Food and beverage processing Conveyor Food and beverage processing Shredder Hoisting Process crane Marine Thruster Marine Winch Material working (wood, ceramic, stone, pvc, metal) Press Material working (wood, ceramic, stone, pvc, metal) Extruder Mining mineral and metal Other application Oil and gas Drilling rig Oil and gas Progressive cavity pump Oil and gas Rod pump Oil and gas Swapping pump Oil and gas Compressor for regasification Oil and gas Separator Oil and gas Other application Water and waste water Separator
power range	15...25 kW at 380...440 V 3 phases 15...25 kW at 480...500 V 3 phases
discrete input number	10
discrete input type	DI1...DI8 programmable, 24 V DC (<= 30 V), impedance: 3.5 kOhm DI7, DI8 programmable as pulse input: 0...30 kHz, 24 V DC (<= 30 V) STOA, STOB safe torque off, 24 V DC (<= 30 V), impedance: > 2.2 kOhm
number of preset speeds	16 preset speeds
discrete output number	2

discrete output type	Logic output DQ+ 0...1 kHz <= 30 V DC 100 mA Programmable as pulse output DQ+ 0...30 kHz <= 30 V DC 20 mA Logic output DQ- 0...1 kHz <= 30 V DC 100 mA
analogue input number	3
analogue input type	AI1, AI2, AI3 software-configurable voltage: 0...10 V DC, impedance: 30 kOhm, resolution 12 bits AI1, AI2, AI3 software-configurable current: 0...20 mA/4...20 mA, impedance: 250 Ohm, resolution 12 bits
analogue output number	2
analogue output type	Software-configurable voltage AQ1, AQ2: 0...10 V DC impedance 470 Ohm, resolution 10 bits Software-configurable current AQ1, AQ2: 0...20 mA impedance 500 Ohm, resolution 10 bits
relay output number	3
relay output type	Configurable relay logic R1: fault relay NO/NC electrical durability 100000 cycles Configurable relay logic R2: sequence relay NO electrical durability 1000000 cycles Configurable relay logic R3: sequence relay NO electrical durability 1000000 cycles
maximum switching current	Relay output R1 on resistive load, cos phi = 1: 3 A at 250 V AC Relay output R1 on resistive load, cos phi = 1: 3 A at 30 V DC Relay output R1 on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 250 V AC Relay output R1 on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 30 V DC Relay output R2, R3 on resistive load, cos phi = 1: 5 A at 250 V AC Relay output R2, R3 on resistive load, cos phi = 1: 5 A at 30 V DC Relay output R2, R3 on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 250 V AC Relay output R2, R3 on inductive load, cos phi = 0.4 and L/R = 7 ms: 2 A at 30 V DC
minimum switching current	Relay output R1, R2, R3: 5 mA at 24 V DC
method of access	Slave Modbus TCP
asynchronous motor control profile	Variable torque standard Optimized torque mode Constant torque standard
synchronous motor control profile	Permanent magnet motor Synchronous reluctance motor
acceleration and deceleration ramps	Linear adjustable separately from 0.01...9999 s
motor slip compensation	Adjustable Automatic whatever the load Can be suppressed Not available in permanent magnet motor law
switching frequency	2...16 kHz adjustable 4...16 kHz with derating factor
nominal switching frequency	4 kHz
braking to standstill	By DC injection
apparent power	28.6 kVA at 480 V (normal duty) 24.9 kVA at 480 V (heavy duty)
prospective line Isc	50 kA
power dissipation in W	Natural convection: 68 W at 380 V, switching frequency 4 kHz Forced convection: 505 W at 380 V, switching frequency 4 kHz
protection type	Thermal protection: motor Safe torque off: motor Motor phase break: motor Thermal protection: drive Safe torque off: drive Overheating: drive Overcurrent between output phases and earth: drive Overload of output voltage: drive Short-circuit protection: drive Motor phase break: drive Overvoltages on the DC bus: drive Line supply overvoltage: drive Line supply undervoltage: drive

	Line supply phase loss: drive Overspeed: drive Break on the control circuit: drive
width	211 mm
height	545.9 mm
depth	235 mm
product weight	14.3 kg
Environment	
insulation resistance	> 1 MOhm 500 V DC for 1 minute to earth
noise level	59.5 dB conforming to 86/188/EEC
vibration resistance	1.5 mm peak to peak (f= 2...13 Hz) conforming to IEC 60068-2-6 1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6
shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
environmental characteristic	Chemical pollution resistance class 3C3 conforming to EN/IEC 60721-3-3 Dust pollution resistance class 3S3 conforming to EN/IEC 60721-3-3
pollution degree	2 conforming to EN/IEC 61800-5-1
relative humidity	5...95 % without condensation conforming to IEC 60068-2-3
ambient air temperature for operation	-15...50 °C (without derating) 50...60 °C (with derating factor)
standards	UL 508C EN/IEC 61800-3 Environment 1 category C2 EN/IEC 61800-3 Environment 2 category C3 EN/IEC 61800-3 EN/IEC 61800-5-1 IEC 61000-3-12 IEC 60721-3 IEC 61508 IEC 13849-1
operating altitude	<= 1000 m without derating 1000...4800 m with current derating 1 % per 100 m
operating position	Vertical +/- 10 degree
product certifications	CSA UL TÜV
marking	CE
maximum THDI	
electromagnetic compatibility	Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6
volume of cooling air	215 m3/h
ambient air temperature for storage	-40...70 °C
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	18.049 kg
Package 1 Height	26 cm
Package 1 width	34.5 cm
Package 1 Length	73.5 cm
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	Yes

information	
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Upgradeability	Upgraded components available action_new_window

Pret: 13 280,99 lei (TVA inclus)

Detalii online: <https://www.materialeelectrice.ro/variator-de-viteza-altivar-atv900-22kw-30hp-400-480v-ip21>