ATV930C11N4F

Schneider Electric · Altivar Process ATV930

Floor-standing three-phase variable speed drive for 380...440 V supply, IP21, Normal Duty rating.

Hardware

Motor power (ND Normal Duty): 110 kW (– HP; official order table column shows "-" for this model; value not published by manufacturer, catalog p.30), overload up to 120% for 60 s
Drive rating: Dual-rated ND/HD per official catalog table (catalog p.2/10)
Motor power (HD Heavy Duty): 90 kW (– HP; official order table column shows "-" for this model; value not published by manufacturer, catalog p.30), overload up to 150% for 60 s
Enclosure: IP21 floor-standing
Switching frequency: 2.5 kHz nominal per catalog p.30 footnote (automatic derating above nominal frequency)
Output frequency: 0.1...599 Hz
Motor control: Asynchronous motor — standard constant torque, variable standard torque, optimized torque mode (open-loop sensorless flux vector and closed-loop with encoder); Synchronous PM motor and synchronous reluctance motor — open-loop and closed-loop vector control per catalog p.10-12
Integrated safety: 1 STO (Safe Torque Off) function, SIL3 / Cat. PL e
Braking: External braking unit required per catalog braking units section
Minimum external brake resistor: Not applicable (floor-standing drives cannot be connected to external braking resistor per installation manual NHA80932 p.91 NOTE)

I/O Specifications

Analog inputs (integrated): 3 inputs: 2 configurable as 0...10 V or 0/4-20 mA (with PTC/PT100/PT1000/KTY84 probe input); 1 configurable as 0...±10 V
Digital inputs (integrated): 8 inputs, 24 V DC, positive or negative logic
Digital output (integrated): 1 assignable, configurable as Pulse Train Output (PTO)
Analog outputs (integrated): 2 outputs configurable as 0...10 V or 0/4-20 mA
Relay outputs (integrated): 3 outputs: 1 NO/NC + 2 NO
Safety function inputs: 2 inputs for STO function
I/O expansion (optional): Up to 3 additional I/O modules per catalog

Communication

Built-in ports: 1 Ethernet dual-port switch (RJ45); 1 Modbus serial port (RJ45)
Protocols: EtherNet/IP and Modbus TCP (dual-port, built-in); Modbus RTU/TCP serial
Communication expansion: 1 option slot for fieldbus modules (PROFINET, PROFIBUS DP V1, CANopen, DeviceNet, EtherCAT, POWERLINK)
Cybersecurity: Achilles Level 2 certified

Electrical

Supply voltage: 380...440 V three-phase (-15%/+10%), 50/60 Hz
Maximum input current: 207 A at 380 V; 195 A at 400 V
Apparent power: 135 kVA at 380 V
Maximum continuous output current In: 211 A maximum
Maximum transient output current for 60 s: 253 A (120% of In, Normal Duty)
HD Heavy Duty — maximum input current: 174 A at 380 V; 164 A at 400 V
HD Heavy Duty — apparent power: 113 kVA at 380 V
HD Heavy Duty — maximum continuous output current In: 173 A maximum
HD Heavy Duty — maximum transient output current for 60 s: 260 A (150% of In, Heavy Duty)
SCCR (prospective line short-circuit current): 50 kA maximum per catalog table
EMC filter: Category C3 integrated EMC filter

Environmental

Environmental class: IEC 60721-3-3 class 3C3 / 3S3 / 3M3 (except frame size 7) per installation manual NHA80932 p.44
Certifications: UL 508C, UL61800-5-1, EN/IEC 61800-3 (category C2/C3), EN/IEC 61800-5-1, IEC 61508, IEC 13849-1, Achilles Level 2, REACH, SEMI F47-0706 per catalog p.9
Altitude derating: up to 1000 m no derating; 1000-3000 m, derate nominal current by 1% per additional 100 m per installation manual NHA80932
Operating temperature: 0 to +40 °C standard, derating from 40 to 50 °C per catalog p.17
Storage temperature: -40 to +70 °C per catalog p.17
Relative humidity: 5 to 95% non-condensing per IEC 60068-2-3, catalog p.17
Protection rating: IP21 (floor-standing)

Physical

Power dissipation: 2412 W total (ND Normal Duty) / 1921 W total (HD Heavy Duty) at nominal load per installation manual NHA80932 p.125-127
Required minimum air flow: 720 m3/h per installation manual NHA80932 p.125-127
Dimensions (H×W×D): 2150 x 400 x 642 mm (per official catalog p.84/85/86 dimension table, converted from W×H×D)
Weight: 300 kg (661 lb) per catalog p.30
Terminal tightening torque: 47 N·m (415 lbf·in) supply & output copper busbar, floor-standing per installation manual NHA80932 p.195-196 (ground bar M12 screw per p.220)
Installation clearance: 100 mm above and below, 10 mm front per installation manual NHA80932 p.122 (floor-standing)

Lifecycle

Current: Altivar Process ATV930 floor-standing drive; official Schneider Electric catalog active (catalog Nov 2019).
(Last verified: 2026-10)