

INDUSTRIAL AUTOMATION PRODUCT

ATV630D90N4

90 kW Altivar Process Variable Speed Drive

Schneider Electric ATV630D90N4 is an Altivar Process ATV600 variable speed drive rated 90 kW normal duty or 75 kW heavy duty for 380–480 V three-phase supplies. Its IP21/UL Type 1 wall-mount enclosure supports process and utility motor control.

IDENTITY	VERIFIED VALUE
Manufacturer	Schneider Electric
Complete model	ATV630D90N4
Product role	90 kW Altivar Process Variable Speed Drive
System family	Altivar Process ATV600
Country of origin	France

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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ATV630D90N4

Technical Specifications

PARAMETER	VERIFIED VALUE
Rated supply voltage	380–480 V AC, -15/+10%
Network phases	3 phases
Supply frequency	50–60 Hz, -5/+5%
Motor power — normal duty	90 kW / 125 hp
Motor power — heavy duty	75 kW / 100 hp
Continuous output current — normal duty	173 A at 2.5 kHz
Continuous output current — heavy duty	145 A at 2.5 kHz
Maximum transient current	190.3 A for 60 s normal duty; 217.5 A for 60 s heavy duty
Output frequency	0.0001–0.5 kHz
Protection	IP21; UL Type 1
Safety function	STO, SIL 3

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Install ATV630D90N4 vertically within $\pm 10^\circ$ and preserve the documented cooling clearances. Verify the 380–480 V three-phase supply, selected normal- or heavy-duty rating, motor data, STO circuit, logic-input mode and parameter backup before commissioning.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Confirm the complete ATV630D90N4 marking, 380–480 V supply and selected duty rating before work.
2	Isolate line, motor, control and external 24 V sources and verify the DC bus is discharged before touching terminals.
3	Mount ATV630D90N4 vertically within $\pm 10^\circ$ and maintain at least 100 mm above and below plus 10 mm at each side for documented Type A mounting.
4	Confirm the motor nameplate and select the 90 kW normal-duty or 75 kW heavy-duty rating deliberately.
5	Protect the STOA and STOB circuit and prove the safety function before releasing the driven machine.

System Role and Architecture

Schneider Electric ATV630D90N4 is an Altivar Process ATV600 variable speed drive rated 90 kW normal duty or 75 kW heavy duty for 380–480 V three-phase supplies. Its IP21/UL Type 1 wall-mount enclosure supports process and utility motor control.

FUNCTION 1

90 kW normal-duty and 75 kW heavy-duty motor ratings

FUNCTION 2

173 A normal-duty and 145 A heavy-duty continuous output current

FUNCTION 3

IP21 and UL Type 1 wall-mount enclosure

FUNCTION 4

Embedded Ethernet, Modbus serial, Modbus TCP and STO SIL 3

Common Applications

APPLICATION	ENGINEERING CONTEXT
Process pump speed control	Regulates asynchronous or synchronous motor speed in process and utility pumping duties using the documented normal- or heavy-duty rating.
Utility fan control	Controls variable-torque fan loads while using the drive's embedded power measurement and process monitoring functions.
Plant motor-network integration	Connects the drive to automation systems through embedded Ethernet, Modbus TCP or Modbus serial communication.
Controlled motor retrofit	Replaces a documented 90 kW drive position after the motor data, supply, protection, STO wiring and parameter set are verified.

CONTROLLED ACCEPTANCE DUTY

Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Confirm the complete ATV630D90N4 marking, 380–480 V supply and selected duty rating before work.
2	Isolate line, motor, control and external 24 V sources and verify the DC bus is discharged before touching terminals.
3	Mount ATV630D90N4 vertically within $\pm 10^\circ$ and maintain at least 100 mm above and below plus 10 mm at each side for documented Type A mounting.
4	Confirm the motor nameplate and select the 90 kW normal-duty or 75 kW heavy-duty rating deliberately.
5	Protect the STOA and STOB circuit and prove the safety function before releasing the driven machine.
6	Set the source, sink or external logic-input arrangement to match the controller outputs before energizing digital inputs.
7	Record Ethernet and Modbus settings, motor data, ramp values and the approved parameter backup before replacement.
8	Prove motor rotation, current, process feedback, protections and commanded stop under controlled conditions before service release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
What motor ratings apply to Schneider Electric ATV630D90N4?	ATV630D90N4 is rated 90 kW or 125 hp for normal duty and 75 kW or 100 hp for heavy duty.
What three-phase supply is required by Schneider Electric ATV630D90N4?	The published rated supply is 380–480 V AC, -15/+10%, at 50–60 Hz with -5/+5% frequency tolerance.
How much continuous output current does Schneider Electric ATV630D90N4 provide?	The data sheet specifies 173 A at 2.5 kHz for normal duty and 145 A at 2.5 kHz for heavy duty.
Is Schneider Electric ATV630D90N4 an IP21 drive?	Yes. The model is published as IP21 to IEC 60529 and IEC 61800-5-1 and as UL Type 1 to UL 508C.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
What cooling clearances are documented for Schneider Electric ATV630D90N4?	For individual Type A mounting, the product data sheet shows at least 100 mm above and below and at least 10 mm at each side.
Which embedded protocols are available on Schneider Electric ATV630D90N4?	The product data sheet lists Ethernet, Modbus TCP and Modbus serial, with additional communication modules available as options.
What does the STO rating mean for Schneider Electric ATV630D90N4 commissioning?	ATV630D90N4 includes a Safe Torque Off function rated SIL 3; the installed STO circuit still requires project-specific validation before release.
What should be recorded before replacing Schneider Electric ATV630D90N4?	Record the complete model, duty selection, motor nameplate data, line and motor conductors, STO and I/O wiring, network settings, drive firmware and the approved parameter backup.

Related Products on Apter Power

MODEL	APTER POWER PAGE
ATV320U75N4B	View ATV320U75N4B
ATV61HD75N4	View ATV61HD75N4
ATV71HD75N4	View ATV71HD75N4
ATV61HD37N4	View ATV61HD37N4
ATS480D62Y	View ATS480D62Y
LXM15MD28N4	View LXM15MD28N4
BSH1402P21A2A	View BSH1402P21A2A
VCA07AAAA0AA00	View VCA07AAAA0AA00

MANUFACTURER SOURCE RECORD

ATV630D90N4 Product Data Sheet
Schneider Electric SQD-ATV630D90N4, 16 December 2016, 13 pages

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