Schneider Electric ATV71HD18N4

Variable Speed Drive / Exact identity and technical profile

This reference separates the exact published characteristics of Schneider Electric ATV71HD18N4 from neighboring family variants and undocumented suffixes.

Product range	Altivar 71
Reference	ATV71HD18N4
Motor rating	18.5 kW / 25 hp
Supply	Three phase, 380 to 480 V, 50/60 Hz
Degree of protection	IP20
Line current	45.5 A at 380 V; 37.5 A at 480 V

TECHNICAL MARKER

18.5 kW / 25 hp rating

TECHNICAL MARKER

380-480 V three-phase supply

TECHNICAL MARKER

IP20 drive execution

TECHNICAL MARKER

Integrated EMC filter and graphic terminal

Technical boundary

The exact model and its published data govern this reference. Similar family names, suffixes or physical appearance do not establish the same electrical or software behavior.

Identity evidence	Read ATV71HD18N4 from the installed label and procurement record
Function evidence	Confirm the published variable speed drive role in the Altivar 71 IP20 Drive system
Configuration evidence	Retain the project, mapping, range, address or interface assigned to this position
Release evidence	Link final diagnostics to a witnessed field or operator response

TECHNICAL DECISION

Accept ATV71HD18N4 only when its identifier and installed-system role agree.

CHANGE BOUNDARY

Any redesign beyond the documented ATV71HD18N4 position requires separate engineering approval.

Schneider Electric ATV71HD18N4

Variable Speed Drive / Published characteristics

This matrix groups the published ATV71HD18N4 characteristics that control identification, configuration and engineering review. Each entry remains tied to the exact variable speed drive record.

Product range	Altivar 71
Reference	ATV71HD18N4
Motor rating	18.5 kW / 25 hp
Supply	Three phase, 380 to 480 V, 50/60 Hz
Degree of protection	IP20
Line current	45.5 A at 380 V; 37.5 A at 480 V
Apparent power	29.9 kVA at 380 V
Maximum prospective line Isc	22 kA
Maximum continuous current	41 A IEC at 380 V; 34 A NEC at 460 V
60 s transient current	61.5 A
2 s transient current	67.7 A
EMC / interface	Integrated EMC filter; graphic terminal

INTERPRETATION

Use every ATV71HD18N4 value with the exact installed configuration.

DESIGN RECORD

Retain the drawing, project and channel or interface assignments that make ATV71HD18N4 data actionable.

Nameplate check	Manufacturer and full reference agree with the controlled record
Range check	Published operating or signal data agree with the configured use
Interface check	Backplane, terminal, cable, network or memory arrangement is documented
Limit check	Loading, channel count, supply or lifecycle constraint is reviewed
Evidence close	Source title and applicable product record are retained with the decision

NO BORROWED VALUES

Another Schneider Electric suffix cannot fill a missing ATV71HD18N4 parameter.

ENGINEERING OUTPUT

Record the exact value used, its purpose and any unresolved item before selection.

Schneider Electric ATV71HD18N4

Variable Speed Drive / System role and data flow

Material-handling drives

Controls conveyors and hoisting auxiliaries within the engineered torque profile.

Process machinery

Provides adjustable motor speed for pumps, fans, mixers or compressors.

Closed-loop motor control

Supports configured feedback options for demanding speed regulation.

Legacy Altivar 71 service

Restores the exact 18.5 kW N4 execution and retained parameter set.

Signal and configuration path

Field layer	Sensors, loads, terminal or operator interface assigned by the design
Module layer	ATV71HD18N4 performs its published variable speed drive role
Control layer	PLC project, address map or runtime application interprets the exchanged data
Acceptance layer	Diagnostics and intended process response are witnessed together

Engineering boundary

Application examples describe system roles only. They do not establish automatic interchangeability, replacement approval or suffix equivalence.

Observed input	Field, network or operator condition presented to ATV71HD18N4
Published action	The documented variable speed drive function processes that condition
Configured interpretation	PLC logic, HMI project or station mapping assigns system meaning
Expected output	A defined state, value, message or command is produced
Acceptance proof	The complete path is witnessed under controlled conditions

APPLICATION RECORD

Tie each ATV71HD18N4 use case to the installed drawing or project tag.

EXCEPTION CONTROL

Document and resolve any behavior that differs from the approved response.

Schneider Electric ATV71HD18N4

Variable Speed Drive / Engineering decisions

SUPPORTED IDENTITY

ATV71HD18N4

PUBLISHED FUNCTION

Variable Speed Drive

SYSTEM CONTEXT

Altivar 71 IP20 Drive

UNSUPPORTED INFERENCE

A nearby model, suffix or family resemblance

Model-specific questions

Which motor rating is published for Schneider Electric ATV71HD18N4?

The catalog lists 18.5 kW, or 25 hp.

Which continuous currents are listed for Schneider Electric ATV71HD18N4?

The catalog gives 41 A under the 380 V IEC column and 34 A under the 460 V NEC column.

Which enclosure class applies to Schneider Electric ATV71HD18N4?

It is listed among the IP20 Altivar 71 drives.

Why must the parameter set be retained for Schneider Electric ATV71HD18N4?

Motor, control, feedback, braking and protection behavior depend on the commissioned configuration.

Which supply range applies to Schneider Electric ATV71HD18N4?

It is the N4 three-phase 380 to 480 V, 50/60 Hz execution.

Which transient currents are listed for Schneider Electric ATV71HD18N4?

The published values are 61.5 A for 60 seconds and 67.7 A for 2 seconds.

Which line current is documented for Schneider Electric ATV71HD18N4?

The catalog lists 45.5 A at 380 V and 37.5 A at 480 V.

What completes commissioning of Schneider Electric ATV71HD18N4?

Verify supply and motor data, restored parameters, rotation, speed and torque response, safety interlocks, alarms and stable temperature.

Decision closeout

Close the ATV71HD18N4 technical review with the exact identifier, applicable published limits and the installed configuration assumptions explicitly recorded.

Question coverage	Identity, function, configuration and field handling addressed
Open item	Any unanswered exact-model point is listed without guessed data
Decision owner	Responsible engineering or maintenance role identified
Supporting record	Drawing, project revision, readings and witnessed result attached

APPROVAL

The ATV71HD18N4 decision is accepted only within the documented scope.

REVIEW TRIGGER

A different suffix, wiring arrangement, project or application requires a new review.

Schneider Electric ATV71HD18N4

Variable Speed Drive / Evidence and support

Exact product	Schneider Electric ATV71HD18N4
Technical class	Variable Speed Drive
Platform	Altivar 71 IP20 Drive
Evidence use	Exact-model characteristics and engineering boundary
Record with	Installed drawing, project and acceptance evidence

Retained evidence	Nameplate, source title, configuration baseline and field record
Installation evidence	Isolation, conductor/connector record and post-work inspection
Commissioning evidence	Diagnostics, measurements and intended response
Final record	Responsible witness, date, exceptions and approved disposition

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

Schneider Electric ATV71HD75N4	View Schneider Electric ATV71HD75N4 page
Schneider Electric ATV61HD37N4	View Schneider Electric ATV61HD37N4 page

MANUFACTURER EVIDENCE RECORD

Schneider Electric Altivar 71 Catalogue

April 2014 catalogue, exact ATV71HD18N4 reference table

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Send the exact model, quantity, destination and requested condition for a quotation.