

ABB AI620 3BHT300005R1

Analog Input Module / Product dashboard

Acceptance requires all used channels to reproduce the intended controller value without unexplained common-mode or range errors.

IDENTITY

ABB AI620 3BHT300005R1

PRODUCT ROLE

Analog Input Module

PLATFORM

S600 I/O

CONTROL BASIS

Exact evidence plus installed-system record

Manufacturer product ID	3BHT300005R1
ABB type designation	AI620
Module class	Analog input
Input channels	16 differential
Signal ranges	+/-10 V; +/-20 mA
Resolution	12 bit

The dashboard places AI620 3BHT300005R1 identity, operating role and maintenance boundaries in one review surface for the S600 I/O installation.

Dashboard boundary

This overview supports identification and maintenance planning; it does not declare compatibility with a neighboring model or approve a redesign.

ABB AI620 3BHT300005R1

Analog Input Module / Technical matrix

Manufacturer product ID	3BHT300005R1
ABB type designation	AI620
Module class	Analog input
Input channels	16 differential
Signal ranges	+/-10 V; +/-20 mA
Resolution	12 bit
Common-mode voltage	100 V
CMRR	>80 dB at 16, 33, 50 or 60 Hz

DATA USE

Values support exact-model identification and configuration review.

LIMIT CONTROL

Electrical, software and loading limits remain subject to the installed design.

RECORD SOURCE

ABB Advant Controller 110 Hardware Overview

REVISION NOTE

3BDD 010 003R0003, exact S600 I/O table

ABB AI620 3BHT300005R1

Analog Input Module / Application architecture

Bipolar voltage acquisition

Collects sixteen differential voltage signals within the documented range.

Bipolar current monitoring

Reads supported positive and negative current-loop values.

Process-variable measurement

Transfers configured analog values to the Advant controller database.

Exact module renewal

Restores the AI620 position without borrowing AI610 or AI625 characteristics.

Input to decision	Exact label plus manufacturer evidence
Installed context	Rack, terminal, network, project and connected process
Change control	Approved scope and retained configuration baseline
Proof	Diagnostic state plus witnessed functional result

Within the S600 I/O context, AI620 3BHT300005R1 must be reviewed together with its assigned project data, field interfaces and the maintenance acceptance record.

ABB AI620 3BHT300005R1

Analog Input Module / Risk and decision register

PRIMARY RISK

A mismatch between the AI620 3BHT300005R1 label and the installed analog input module record.

CONFIGURATION RISK

Loss of the AI620 3BHT300005R1 project, mapping, wiring or interface baseline.

SELECTION RISK

Treating another S600 I/O item as automatically equivalent to AI620 3BHT300005R1.

RELEASE RISK

Returning AI620 3BHT300005R1 to control before diagnostics and functional response are witnessed.

Decision register

How many channels does ABB AI620 3BHT300005R1 provide?

The S600 hardware catalogue specifies sixteen differential analog input channels.

What resolution applies to ABB AI620 3BHT300005R1?

The manufacturer catalogue specifies 12-bit conversion.

What CMRR is specified for ABB AI620 3BHT300005R1?

The catalogue states greater than 80 dB at 16, 33, 50 or 60 Hz.

Can AI610 data be applied to ABB AI620 3BHT300005R1?

No. AI610 has a different input arrangement and cannot supply missing AI620 facts.

Which ranges are documented for ABB AI620 3BHT300005R1?

The exact module is listed for +/-10 V and +/-20 mA inputs.

What common-mode value is published for ABB AI620 3BHT300005R1?

The listed common-mode voltage is 100 V.

What configuration must be retained for ABB AI620 3BHT300005R1?

Retain range, scaling, database address, alarm limits and channel wiring.

How is ABB AI620 3BHT300005R1 commissioned?

Inject known bipolar signals and compare physical input, diagnostics and controller value on every used channel.

Decision closeout

Approve the AI620 3BHT300005R1 decision register only when identity, configuration, diagnostics and observed process behavior tell one consistent story.

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Analog Input Module / Canonical record and support

Canonical identity	ABB AI620 3BHT300005R1
Product name	Analog Input Module
Family	S600 I/O
Selection boundary	Exact identity; no neighboring-model inference
Release boundary	Installed record plus witnessed functional proof

VERIFIED APTER POWER CATALOG REFERENCES

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

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MANUFACTURER EVIDENCE RECORD

ABB Advant Controller 110 Hardware Overview

3BDD 010 003R0003, exact S600 I/O table

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

