

ABB ROBOTS

Product Data Sheet

3HAC057546-003

industrial control board

FUNCTION industrial control board	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 25.42 kg
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ABB Robots 3HAC057546-003 is a industrial control board for the ABB Robots. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	3HAC057546-003
Product Family	ABB Robots
Component Type	Industrial Control Board
Assembly Class	ABB PCB assembly
System Interface	ABB Robots control interface
Control Supply	Documented rack control supply
Connector Interface	Keyed ABB board connectors
Installation Format	Plug-in control board
Signal Domain	Control and diagnostic signals
Service Position	Documented rack slot

ADDITIONAL PRODUCT DATA

Configuration Basis	Installed ABB hardware list
Replacement Basis	Exact article and board revision
Protective Check	ESD and protective-earth control
Commissioning Check	Power-up diagnostics and function test
Maintenance Identity	3HAC057546-003 controlled service identity

OFFICIAL APPLICATIONS

- Integrate automated storage with Industrial Control: For the coordinated operation of the stacker cranes and storage positions, 3HAC057546-003 provides its specified system function as a industrial control board. During buffer release, the system uses this function to release material according to downstream availability, helping it prevent overfilling the next buffer.
- Sequence generator excitation with Industrial Control: In the automation chain for the field circuits and voltage regulation, 3HAC057546-003 provides its specified system function as a industrial control board. During load change, the system uses this function to adjust the assigned regulation path from operating feedback, helping it hold the electrical variable at its commanded target.
- Protect raw-water pumping with Industrial Control: Within the intake pumps and wet wells, 3HAC057546-003 performs its assigned control role as a industrial control board. During peak-flow demand, the system uses this function to coordinate pump duty and level response, helping it maintain hydraulic continuity.

SYSTEM COMPATIBILITY

Match 3HAC057546-003 to the installed ABB Robots, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[ABB ABB Robots documentation](#)

<https://new.abb.com/control-systems>

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