

ABB ROBOTS

Product Data Sheet

3HAC14550-4/09A

industrial control board

FUNCTION industrial control board	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 1.80 kg
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ABB Robots 3HAC14550-4/09A 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	3HAC14550-4/09A
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	3HAC14550-4/09A controlled service identity

OFFICIAL APPLICATIONS

- Coordinate generator excitation during load change: Within the field circuits and voltage regulation, 3HAC14550-4/09A handles its designated signal or control duty 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.
- Govern robotic handling with Industrial Control: In the automation chain for the robots, grippers and transfer fixtures, 3HAC14550-4/09A operates in its approved product-family role as a industrial control board. During fault recovery, the system uses this function to restore the cell from a defined intermediate state, helping it resume material flow without losing part identity.
- Govern order sorting with Industrial Control process control: At the control layer of the scanners, diverters and destination lanes, 3HAC14550-4/09A provides its specified system function as a industrial control board. During priority order, the system uses this function to apply the current order priority to the routing decision, helping it complete the order path in the intended sequence.

SYSTEM COMPATIBILITY

Match 3HAC14550-4/09A 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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