

ABB ROBOTS

Product Data Sheet

3HAC14549-3/12A

industrial control board

FUNCTION industrial control board	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 1.72 kg
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ABB Robots 3HAC14549-3/12A 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	3HAC14549-3/12A
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

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	3HAC14549-3/12A controlled service identity

- **Verify robotic joining with Industrial Control:** During operation of the robots, fixtures and clamp groups, 3HAC14549-3/12A provides its specified system function as a industrial control board. During station restart, the system uses this function to confirm tooling readiness before the cycle starts, helping it prevent an incomplete joining cycle.
- **Control order sorting with Industrial Control:** Inside the scanners, diverters and destination lanes, 3HAC14549-3/12A performs its assigned control role 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.
- **Supervise robotic handling with Industrial Control:** For the coordinated operation of the robots, grippers and transfer fixtures, 3HAC14549-3/12A serves its documented function 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.

Match 3HAC14549-3/12A to the installed ABB Robots, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB ABB Robots documentation](#)

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

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