

ABB ROBOTS

Product Data Sheet

3HAC031683-004

industrial control board

FUNCTION industrial control board	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 0.40 kg
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ABB Robots 3HAC031683-004 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	3HAC031683-004
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	3HAC031683-004 controlled service identity

- Balance aseptic filling with Industrial Control: At the control layer of the fillers and container conveyors, 3HAC031683-004 operates in its approved product-family role as a industrial control board. During line-speed ramp, the system uses this function to keep container flow synchronized with filling demand, helping it move accepted containers toward inspection.
- Support paint-shop conveying with Industrial Control: In the automation chain for the carrier tracking and booth interfaces, 3HAC031683-004 provides its specified system function as a industrial control board. During carrier accumulation, the system uses this function to route carriers by production status, helping it preserve body order through the process.
- Stabilize aeration control with Industrial Control: Inside the blowers and dissolved-oxygen loops, 3HAC031683-004 operates in its approved product-family role as a industrial control board. During changing oxygen demand, the system uses this function to adjust air delivery from process feedback, helping it stabilize treatment performance.

Match 3HAC031683-004 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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