

ABB ROBOTS

Product Data Sheet

3HAC045978-001

industrial motor axis

FUNCTION industrial motor axis	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 1.55 kg
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ABB Robots 3HAC045978-001 is a industrial motor axis for the ABB Robots. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Rated Power	4.5 kW
Rated Speed	3000 RPM (Variable Speed)
Rated Voltage	400 V (3-phase AC)
Rated Current	10 A
Rated Frequency	50 Hz
Insulation Class	F (resistant up to 155°C)
Torque Constant	18 Nm/A
Service Factor	1.3
Exact Article Code	3HAC045978-001
Product Family	ABB Robots

ADDITIONAL PRODUCT DATA

Component Type	Industrial Motor Axis
Assembly Class	ABB PCB assembly
System Interface	ABB Robots control interface
Control Supply	Documented rack control supply
Connector Interface	Keyed ABB board connectors

OFFICIAL APPLICATIONS

- Coordinate paint-shop conveying with Industrial Motor: Inside the carrier tracking and booth interfaces, 3HAC045978-001 operates in its approved product-family role as a industrial motor axis. During carrier accumulation, the system uses this function to route carriers by production status, helping it preserve body order through the process.
- Govern recipe mixing with Industrial Motor process control: As part of the mixers and ingredient skids, 3HAC045978-001 operates in its approved product-family role as a industrial motor axis. During recipe changeover, the system uses this function to sequence material transfers and equipment permissives, helping it preserve the verified batch state.
- Track raw-water pumping with Industrial Motor: Inside the intake pumps and wet wells, 3HAC045978-001 performs its assigned control role as a industrial motor axis. During peak-flow demand, the system uses this function to coordinate pump duty and level response, helping it maintain hydraulic continuity.

SYSTEM COMPATIBILITY

Match 3HAC045978-001 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>

AMIKON PRODUCT SUPPORT

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