

ABB ROBOTS

Product Data Sheet

3HAC043166-005

industrial motor axis

FUNCTION industrial motor axis	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 1.55 kg
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ABB Robots 3HAC043166-005 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	5 kW
Rated Speed	3000 RPM (Variable Speed)
Rated Voltage	400 V (3-phase AC)
Rated Current	11 A
Rated Frequency	50 Hz
Insulation Class	F (operates up to 155°C)
Torque Constant	22 Nm/A
Service Factor	1.5
Exact Article Code	3HAC043166-005
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

- Govern robotic joining with Industrial Motor process control: During operation of the robots, fixtures and clamp groups, 3HAC043166-005 performs its assigned control role as a industrial motor axis. During station restart, the system uses this function to confirm tooling readiness before the cycle starts, helping it prevent an incomplete joining cycle.
- Govern generator excitation with Industrial Motor: At the control layer of the field circuits and voltage regulation, 3HAC043166-005 supports the configured automation role as a industrial motor axis. 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.
- Coordinate order sorting with Industrial Motor: At the control layer of the scanners, diverters and destination lanes, 3HAC043166-005 provides its specified system function as a industrial motor axis. 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 3HAC043166-005 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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