

ABB ROBOTS

Product Data Sheet

3HAC021799-003

irb1600 4-axis servo motor

FUNCTION irb1600 4-axis servo motor	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 1.45 kg
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ABB Robots 3HAC021799-003 is a irb1600 4-axis servo motor for the ABB Robots. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Frame Size	100 m
Rated Power	1.5 kW
Rated Speed	3000 RPM
Rated Torque	4.8 Nm
Peak Torque	14.4 Nm
Maximum Speed	6000 RPM
Rated Current	3.7 A
Speed Regulation	< 1% variation at rated load
Service Factor	1.5
Exact Article Code	3HAC021799-003

Product Family	ABB Robots
Component Type	Irb1600 4-Axis Servo Motor
Assembly Class	ABB PCB assembly
System Interface	ABB Robots control interface
Control Supply	Documented rack control supply

- Protect robotic joining with Irb1600 4 process control: Across the robots, fixtures and clamp groups, 3HAC021799-003 performs its assigned control role as a Irb1600 4-axis servo motor. During station restart, the system uses this function to confirm tooling readiness before the cycle starts, helping it prevent an incomplete joining cycle.
- Control reel and winder operation with Irb1600 4: As part of the reels, slitters and winding drums, 3HAC021799-003 supports the configured automation role as a Irb1600 4-axis servo motor. During roll change, the system uses this function to synchronize winding torque with roll diameter, helping it build a roll with controlled tension.
- Monitor test-stand control with Irb1600 4 process control: At the control layer of the load actuators and measurement channels, 3HAC021799-003 supports the configured automation role as a Irb1600 4-axis servo motor. During test-point transition, the system uses this function to move the test article through commanded operating points, helping it capture comparable results at each condition.

Match 3HAC021799-003 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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