

ABB ROBOTS

Product Data Sheet

3HAC028017-003

robot servo motor

FUNCTION robot servo motor	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 18.50 kg
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ABB Robots 3HAC028017-003 is a robot servo motor for the ABB Robots. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Rated Power	2.5 kW
Rated Speed	3000 RPM (supports high-speed operation)
Rated Voltage	400 V (3-phase AC)
Rated Current	6 A
Rated Frequency	50 Hz
Torque Constant	6.5 Nm/A
Noise Level	68 dB(A) at rated load
Exact Article Code	3HAC028017-003
Product Family	ABB Robots
Component Type	Robot Servo Motor

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

- Route inspection handling with Robot Servo process control: At the control layer of the camera stations and reject mechanisms, 3HAC028017-003 provides its specified system function as a robot servo motor. During inspection retry, the system uses this function to return the part to a repeatable inspection pose, helping it produce a comparable inspection result.
- Regulate palletizing with Robot Servo process control: During operation of the case conveyors and robot cells, 3HAC028017-003 serves its documented function as a robot servo motor. During product-gap recovery, the system uses this function to restore coordinated flow after a controlled stop, helping it return the line to stable throughput.
- Maintain test-stand control during test-point transition: During operation of the load actuators and measurement channels, 3HAC028017-003 operates in its approved product-family role as a robot 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 3HAC028017-003 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>

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM