

ABB ROBOTS

Product Data Sheet

3HAC057547-003

industrial servo motor

FUNCTION industrial servo motor	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 15.14 kg
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ABB Robots 3HAC057547-003 is a industrial servo motor for the ABB Robots. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Ambient Temp	0°C to +40°C (derated to +55°C)
Storage Temp	-30°C to +70°C
Humidity	20-80% RH (non-condensing)
Rated Power	4.5 kW
Rated Torque	28 Nm
Peak Torque	84 Nm (300% overload)
Rated Speed	1500 rpm
Max Speed	5000 rpm
Voltage	400V AC (3-phase)
Current	9.5A (rated), 28A (peak)

Torque Constant	1.8 Nm/A
Back EMF	110 V/krpm
Rotor Inertia	0.012 kg·m ²
Stator Resistance	0.8 Ω (line-to-line)
Thermal Time Constant	45 minutes

- Balance paint-shop conveying with Industrial Servo: Within the carrier tracking and booth interfaces, 3HAC057547-003 provides its specified system function as a industrial servo motor. During carrier accumulation, the system uses this function to route carriers by production status, helping it preserve body order through the process.
- Stabilize component placement during registration update: Inside the feeders, gantries and placement heads, 3HAC057547-003 operates in its approved product-family role as a industrial servo motor. During registration update, the system uses this function to align the workpiece datum with the process position, helping it keep the operation referenced to the product feature.
- Verify form-fill-seal with Industrial Servo process control: At the control layer of the film feed, sealing jaws and discharge belts, 3HAC057547-003 performs its assigned control role as a industrial servo motor. During speed ramp, the system uses this function to correct material position before sealing or cutting, helping it keep seals and cuts aligned with the product.

Match 3HAC057547-003 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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