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Product identity and operating boundary

ABB 3HAC061275-001 is a SafeMove 2-supported axis-3 drive unit for an IRB 1200 Type B robot. It combines the axis-3 gearbox, an AC motor with resolver interface, the motor adapter and O-ring 3HAC048939-002.

Exact assembly context

IDENTITY	DOCUMENTED VALUE
Exact article number	3HAC061275-001
Spare-part type	Axis-3 drive unit
Robot family	IRB 1200
Robot variant	Type B
Safety-function support	SafeMove 2
Gear component	Axis-3 gearbox

What the assembly restores

For an ABB 3HAC061275-001 replacement, the installed IRB 1200 Type B keeps its controlled axis-3 mechanical drive path. The service sequence ends with recalibration and a first test run under the documented safety procedure.

Axis position

Robot axis 3

Drive hardware

Gearbox and AC motor

Feedback

Resolver interface

Release

Recalibration and test

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Component architecture

Treat the gearbox, motor, resolver feedback, adapter and sealing interface as one exact controlled drive assembly.

Axis-3 gearbox

Transfers controlled motion into the third robot axis and remains part of the exact drive-unit execution.

AC motor

Supplies axis motion and carries the documented resolver interface for feedback.

Motor adapter

Maintains the documented mechanical relationship between the motor and axis-3 gear unit.

O-ring 3HAC048939-002

Seals the mounting interface; inspect it and replace it if damage is present.

ARCHITECTURE	CONTROLLED RECORD
Assembly identity	3HAC061275-001
Robot execution	IRB 1200 Type B / SafeMove 2
Feedback basis	Resolver interface

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Technical data map

The values below come from the exact drive-unit identity or the applicable IRB 1200 Type B service procedure.

SERVICE RESOURCE	DOCUMENTED VALUE
Motor type	AC motor
Feedback interface	Resolver interface
Included adapter	Motor adapter
Included O-ring	3HAC048939-002
Upper-arm guide pin	3HAC049705-001
Guide-pin quantity	Three used together
Lifting support	2 m roundsling, 100 kg capacity
Brake-release supply	24 V DC
Drive-unit screw	M4x40
Drive-unit screw torque	4.2 Nm
Calibration basis	Retain the factory calibration method

Evidence boundary

Do not transfer ratings, dimensions or compatibility claims from a visually similar drive unit. Match the complete article number, robot execution and installed service record.

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Applications and service precautions

Use the assembly only in the documented Type B axis-3 position and release it after calibration and a controlled test.

Supported service applications

IRB 1200 Type B axis-3 service

Restores the documented third-axis drive assembly while retaining the robot's installed mechanical relationship.

SafeMove 2 drive-path restoration

Supports controlled replacement in the Type B execution that uses SafeMove 2-compatible drive hardware.

Resolver-feedback motor replacement

Re-establishes the AC motor and resolver feedback interface with the recorded connector layout.

Robot recalibration and return-to-service

Completes repair with the retained calibration method and the required safety-controlled first test run.

Eight-point service boundary

- 1 Confirm ABB 3HAC061275-001, the IRB 1200 Type B execution and SafeMove 2 support before work.
- 2 Select the required calibration routine and secure reference values before disturbing the axis.
- 3 Jog all axes to the documented zero position and establish the approved work boundary.
- 4 Isolate electrical power, hydraulic pressure and air pressure before removal begins.
- 5 Support the upper arm with suitable lifting equipment before releasing the drive unit.
- 6 Use all three guide pins 3HAC049705-001 together when guiding the upper arm.
- 7 Handle the gear unit and motor adapter carefully because they are not screwed together during removal.
- 8 Inspect the O-ring, apply the documented screw torque, reconnect, recalibrate and complete the first test run.

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Buyer and engineering FAQ

These answers separate exact-model identity, included hardware, handling requirements and acceptance checks.

Which O-ring is documented with ABB 3HAC061275-001?

O-ring 3HAC048939-002 is included; inspect it and replace it if damaged before refitting.

How is the upper arm guided during ABB 3HAC061275-001 replacement?

Use all three guide pins 3HAC049705-001 together and support the arm with the documented lifting equipment.

What tightening torque applies to ABB 3HAC061275-001 drive-unit screws?

Tighten the M4x40 drive-unit screws to 4.2 Nm.

What verification follows ABB 3HAC061275-001 installation?

Reconnect the axis-3 motor connectors, recalibrate by the retained factory method and complete the documented safety-controlled test run.

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[ABB PCU-03 — View product page](#)

[ABB DSQC346G — View product page](#)

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