

ABB ROBOTS

Product Data Sheet

3HAC16831-1

industrial battery pack

FUNCTION industrial battery pack	FAMILY ABB Robots	ORIGIN Sweden	WEIGHT 0.30 kg
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ABB Robots 3HAC16831-1 is a industrial battery pack for the ABB Robots. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Servo Brakes	30 minutes
Self-Discharge Rate	<3% per month @ 25°C
Operating Temperature	-20°C to +50°C
Storage Temperature	-30°C to +60°C
Humidity	5-95% non-condensing
Nominal Voltage	24V DC
Capacity	7Ah
Operating Voltage Range	21.6V - 26.4V DC
Max Discharge Current	10A
Charging Voltage	27.6V ±0.2V

Charging Current	2.1A
Exact Article Code	3HAC16831-1
Product Family	ABB Robots
Component Type	Industrial Battery Pack
Assembly Class	ABB PCB assembly

- Balance order sorting with Industrial Battery: At the control layer of the scanners, diverters and destination lanes, 3HAC16831-1 performs its assigned control role as a industrial battery pack. 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.
- Control recipe mixing with Industrial Battery: In the automation chain for the mixers and ingredient skids, 3HAC16831-1 supports the configured automation role as a industrial battery pack. During recipe changeover, the system uses this function to sequence material transfers and equipment permissives, helping it preserve the verified batch state.
- Sequence raw-water pumping with Industrial Battery: During operation of the intake pumps and wet wells, 3HAC16831-1 operates in its approved product-family role as a industrial battery pack. During peak-flow demand, the system uses this function to coordinate pump duty and level response, helping it maintain hydraulic continuity.

Match 3HAC16831-1 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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