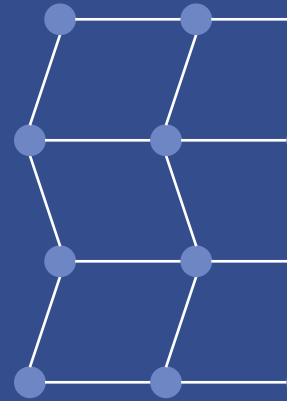


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB P-HC-BRC-30000000

Product Reference

ABB P-HC-BRC-30000000 Requested-Label Verification Page



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB P-HC-BRC-30000000
Reference number	P-HC-BRC-30000000
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/p-hc-brc-30000000>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB P-HC-BRC-30000000 is the requested gray Harmony Rack order variant of the BRC300 bridge controller. The BRC300 controller executes continuous, sequential, batch, and advanced control strategies from ABB function-code and project programming. System context: ABB P-HC-BRC-30000000 Requested-Label Verification Page.

Published field	Manufacturer-published value or verified identity note
Variant	Gray Harmony Rack P-HC alternative of BRC300
Processor family	160 MHz, 32-bit Freescale ColdFire at BRC-family level
Control library	More than 150 predefined algorithms/function codes at BRC-family level
Control types	Continuous, sequential, batch, and advanced control
I/O architecture	Harmony Rack and project-defined evolution interfaces
Memory / maximum function blocks	HOLD - do not copy BRC400/410 values
Ethernet / Modbus TCP	HOLD as a BRC300 feature; integrated Modbus TCP belongs to BRC410

System function and signal path

01	System Inputs: Controller configuration, process I/O and peer/system data through the installed Harmony architecture.
02	Processing: Executes BRC-family continuous, sequential, batch and advanced control functions.
03	Outputs: Control commands to compatible ABB I/O and controller data to configured system peers.
04	Communications: Harmony Rack controller buses and project-defined remote-I/O/network interfaces.

Applications, answers, and official sources

1 Legacy process-loop control: Executes installed analog and regulatory strategies through Harmony Rack I/O.

2 Sequence and batch automation: Runs project-defined sequence and batch logic within verified controller capacity.

3 Harmony Rack installed-base support: Maintains legacy controller service while preserving gray-revision history.

4 SPBRC300 migration baseline: Provides the legacy configuration source for an engineered successor project.

Frequently asked questions

What is P-HC-BRC-30000000?	It is the requested gray Harmony Rack variant of ABB's BRC300 bridge-controller family.
Is the exact base code fully proven?	The gray P-HC BRC300 family is proven, but the physical base nameplate must confirm the exact 30000000 string.
Which exact ABB spare material was found?	PHCBRC30000000R, an R-suffixed refurbished Bridge Controller material.
Is the R-suffixed material the base model?	No. It is a refurbished/repair context.
Should it be merged with SPBRC300?	No. ABB gives the gray variant separate lifecycle history.
What lifecycle evidence exists?	ABB says gray P-HC BRC300/BRC400 alternatives moved to Limited in January 2015.

Official ABB sources

ABB Harmony lifecycle and evolution presentation	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchorage%20Harmony.pdf
ABB Symphony Plus HR Series Control and I/O brochure	https://library.e.abb.com/public/18f414cba5434d4591603ac425cbd7ea/2VAA005093_E_en_HR_Series_control_and_IO_Print.pdf
ABB Industrial Automation Spare Parts Treasure Hunt 2020	https://library.e.abb.com/public/c95eb75edc1744029376d5b78fca46d1/Treasure_Hunt_2020.pdf