

ABB

RPBA-01

PROFIBUS DP Adapter Module

ABB RPBA-01 is an R-series PROFIBUS DP adapter module for supported drive installations. It supports DP-V0 and DP-V1, automatically detects the telegram type and handles PPO message types 1 through 6.

System position

Exact identity

RPBA-01

System family

R-series drive option modules

Functional role

Fieldbus Adapter

Release basis

Recorded test and diagnostics

Keep the hardware and configuration identities together

RPBA-01 links a compatible drive to a PROFIBUS master while preserving the documented communication profile, node address, bus termination and telegram configuration.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	RPBA-01
Module class	PROFIBUS DP adapter
Protocol versions	DP-V0 and DP-V1
Telegram detection	Automatic
PPO message types	1 through 6
Communication profiles	PROFIdrive and ABB Drives

Technical evidence record: 3AFE64504215

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RPBA-01

Interfaces and integration

Define the installed role

RPBA-01 links a compatible drive to a PROFIBUS master while preserving the documented communication profile, node address, bus termination and telegram

Exact model	RPBA-01
Module class	PROFIBUS DP adapter
Protocol versions	DP-V0 and DP-V1

Map the host relationship

The complete RPBA-01 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	R-series drive option modules
Primary role	PROFIBUS DP communication between a
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded R-series drive option modules position, connected interfaces and configuration

Acceptance evidence

Release RPBA-01 only after diagnostics and a controlled functional result are recorded.

Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	VALUE
Exact model	RPBA-01
Module class	PROFIBUS DP adapter
Protocol versions	DP-V0 and DP-V1
Telegram detection	Automatic

PARAMETER	VALUE
PPO message types	1 through 6
Communication profiles	PROFIdrive and ABB Drives
Compatible drive families	ACS550, ACH550 and ACS800
Commissioning basis	Address, termination and drive parameters

Identity decision

Accept only the complete RPBA-01 marking and the recorded hardware execution.

Host decision

Confirm the receiving R-series drive option modules position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of PROFIBUS DP communication between a supported drive and the control network before handover.

Engineering boundary

Use RPBA-01 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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RPBA-01

Controls and service logic

Installed-system renewal

Restores the documented RPBA-01 position while keeping the approved host and interfaces.

Controlled maintenance

Supports as-found recording, safe isolation and exact connection restoration.

Compatibility review

Compares the full marking, host, connectors, settings and companion hardware.

Commissioning evidence

Records diagnostics and a controlled functional test of PROFIBUS DP communication between a

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read RPBA-01 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

What does RPBA-01 identify?

RPBA-01 identifies the profibus dp adapter module used for PROFIBUS DP communication between a supported drive and the control network.

Which installed system must RPBA-01 match?

Match RPBA-01 to the recorded R-series drive option modules host, position and companion hardware.

Which markings must be checked on RPBA-01?

Verify the complete RPBA-01 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing RPBA-01?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Can RPBA-01 be replaced by appearance alone?

No. RPBA-01 requires an exact identity and interface match against the installed-system record.

How should RPBA-01 be isolated?

Use the approved maintenance state, remove connected energy and prove the affected circuit safe.

Related Apter Power pages

[ABB NRDI02 — View product page](#)

[ABB PFEA111 20 3BSE050090R20 — View product page](#)

[ABB CMA130 3DDE300410 — View product page](#)

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