

ABB INDUSTRIAL CONTROL SYSTEMS

Product Data Sheet

1MRB178009R0002 500PBIO01-TTL

industrial control board

FUNCTION industrial control board	FAMILY ABB industrial control systems	ORIGIN Germany	WEIGHT 0.32 kg
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ABB 1MRB178009R0002 500PBIO01-TTL is a industrial control board for the ABB industrial control systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Manufacturer	ABB
Exact Article Code	1MRB178009R0002 500PBIO01-TTL
Product Family	ABB industrial control systems
Component Type	Industrial Control Board
System Class	DCS System
Mounting Format	Plug-in control rack
System Interface	Manufacturer backplane bus
Control Supply	24 V DC control class
Channel Capacity	Model-defined channel set
Signal Standard	System-specific I/O levels

ADDITIONAL PRODUCT DATA

Electrical Isolation	Isolated field circuits
Operating Temperature	0 to +55 °C cabinet range
Protection Level	IP20 installed equipment
Configuration Tool	Manufacturer engineering software
Commissioning Test	I/O and diagnostic functional test

OFFICIAL APPLICATIONS

- Operate the documented industrial control board: Use 1MRB178009R0002 500PBIO01-TTL in the specified ABB industrial control systems position with the documented supply, signal range and system interface. Match the complete article code and installed rack records before service.
- Restore every documented connection: Record terminal numbers, connector keying, rack position, shields and protective earth for 1MRB178009R0002 500PBIO01-TTL. Preserve the approved ABB configuration and cable routing during exchange.
- Validate the restored control function: After fitting 1MRB178009R0002 500PBIO01-TTL, check power and module diagnostics, then test the affected I/O, communication, controller or measurement function at a safe operating point and record acceptance.

SYSTEM COMPATIBILITY

Match 1MRB178009R0002 500PBIO01-TTL to the installed ABB industrial control systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[ABB ABB industrial control systems manufacturer documentation](#)

<https://new.abb.com/control-systems>

AMIKON PRODUCT SUPPORT

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