

INDUSTRIAL AUTOMATION PRODUCT

1MRK000508-BDR06

Relion 670 Series Binary Input Module

ABB 1MRK000508-BDR06 is a Relion 670 Series binary input module based on the documented 1MRK000508-BD sixteen-input execution. It acquires station binary signals for the installed protection and control IED.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB Relion 670 protection and control IED
Part number	1MRK000508-BDR06
Product role	Acquires sixteen documented binary inputs
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Record all sixteen input assignments, terminal labels, input-voltage class and IED hardware position before removing 1MRK000508-BDR06. Restore the approved input map and perform controlled channel simulation with normal IED diagnostics before enabling protection logic.

APTER POWER SALES TEAM

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1MRK000508-BDR06

Technical Specifications

Technical values below are limited to the named ABB product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Base ordering number	1MRK000508-BD	Input channels	16
Module type	Binary input module	System family	Relion 670 Series

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	ABB Relion 670 protection and control IED
Primary system role	Acquires sixteen documented binary inputs
Connection boundary	Record all sixteen input assignments, terminal labels, input-voltage class and IED hardware position before removing 1MRK000508-BDR06. Restore the approved input map and perform controlled channel simulation with normal IED diagnostics before enabling protection logic.
Controlled acceptance duty	Breaker-status acquisition

ENGINEERING BOUNDARY

Confirm ABB 1MRK000508-BDR06, base order 1MRK000508-BD, Relion 670 host, sixteen-channel map, input-voltage class, terminals, commons, grounding, IED configuration and point-test results before commissioning.

Pre-Installation Checks

- 1

Confirm ABB 1MRK000508-BDR06 and base ordering number 1MRK000508-BD.
- 2

Place the protected equipment and IED logic in the approved maintenance state.
- 3

Isolate every connected binary-input circuit and apply ESD controls.
- 4

Record all sixteen channel assignments, terminal labels, commons and input-voltage class.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	1MRK000508-BDR06
Installed host	ABB Relion 670 protection and control IED
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

ABB 1MRK000508-BDR06 is a Relion 670 Series binary input module based on the documented 1MRK000508-BD sixteen-input execution. It acquires station binary signals for the installed protection and control IED.

FUNCTION 1
Acquires sixteen documented binary inputs

FUNCTION 2
Interfaces station status signals with the IED

FUNCTION 3
Maintains the approved Relion hardware position

FUNCTION 4
Supports controlled point-by-point input testing

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	ABB Relion 670 protection and control IED
2	Binary input module
3	Breaker-status acquisition
4	Record all sixteen input assignments, terminal labels, input-voltage class and IED hardware position before removing 1MRK000508-BDR06. Restore the approved input map and perform controlled channel simulation with normal IED diagnostics before enabling protection logic.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	ABB Relion 670 protection and control IED
Interface role	Acquires sixteen documented binary inputs
Field / power context	The module receives station status and interlocking signals through the installed terminal execution. Commissioning verifies the complete channel map, field isolation, input logic and IED indication path.
Commissioning evidence	Simulate every assigned input and confirm the intended logic response before release.

Installation and Connection Checks

1Confirm the Relion 670 slot and installed terminal execution.

2Restore the approved channel map and IED hardware configuration.

3Review module recognition, input states, sequence-of-event indications and self-supervision.

4Simulate every assigned input and confirm the intended logic response before release.

MANUFACTURER SOURCE RECORD

Relion 670 Series product guide and hardware ordering information
Hitachi Energy Relion 670 Series

Applications and Engineering Context

Breaker-status acquisition

Brings documented auxiliary-contact states into the protection IED.

Protection interlocking

Acquires binary permissive and blocking signals in the approved logic.

Alarm and indication input

Transfers station equipment states to IED supervision functions.

IED hardware replacement

Restores the exact input-module execution with a verified channel map.

TECHNICAL NOTE

Record all sixteen input assignments, terminal labels, input-voltage class and IED hardware position before removing 1MRK000508-BDR06. Restore the approved input map and perform controlled channel simulation with normal IED diagnostics before enabling protection logic.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	1MRK000508-BDR06 recorded
Host / carrier	ABB Relion 670 protection and control IED
Physical interface	Acquires sixteen documented binary inputs
Configuration	Review module recognition, input states, sequence-of-event indications and self-supervision.
Functional proof	Simulate every assigned input and confirm the intended logic response before release.

IMPORTANT NOTICE

Confirm ABB 1MRK000508-BDR06, base order 1MRK000508-BD, Relion 670 host, sixteen-channel map, input-voltage class, terminals, commons, grounding, IED configuration and point-test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	1MRK000508-BDR06
Approved role	Breaker-status acquisition
Final validation	Simulate every assigned input and confirm the intended logic response before release.

Engineering Precautions

- 1

Confirm ABB 1MRK000508-BDR06 and base ordering number 1MRK000508-BD.
- 2

Place the protected equipment and IED logic in the approved maintenance state.
- 3

Isolate every connected binary-input circuit and apply ESD controls.
- 4

Record all sixteen channel assignments, terminal labels, commons and input-voltage class.
- 5

Confirm the Relion 670 slot and installed terminal execution.
- 6

Restore the approved channel map and IED hardware configuration.
- 7

Review module recognition, input states, sequence-of-event indications and self-supervision.
- 8

Simulate every assigned input and confirm the intended logic response before release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
ABB MZ03	Related Apter Power product	View ABB MZ03 page
ABB MPRC-086349-002	Related Apter Power product	View ABB MPRC-086349-002 page
ABB MM21	Related Apter Power product	View ABB MM21 page
ABB MB510-3BSE002540R1	Related Apter Power product	View ABB MB510-3BSE002540R1 page
ABB MB21	Related Apter Power product	View ABB MB21 page
ABB DSMB127-57360001-HG	Related Apter Power product	View ABB DSMB127-57360001-HG page
ABB DSDX454-5716075-AT	Related Apter Power product	View ABB DSDX454-5716075-AT page
ABB DSDX451L-5716075-AH-VERIFICATION	Related Apter Power product	View ABB DSDX451L-5716075-AH-VERIFICATION page

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