

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.

BRAND	ABB	FAMILY	ABB Relion 670 protection and control IED
PART	1MRK000508-BDR06	SYSTEM ROLE	Acquires sixteen documented binary inputs

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1MRK000508-BDR06

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	ABB Relion 670 protection and control IED
Primary interface	Acquires sixteen documented binary inputs
Engineering 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 duty	Simulate every assigned input and confirm the intended logic response before release.

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.

Technical Data

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

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
ABB DSBC174-3BSE012211R1	Related Apter Power product	View ABB DSBC174-3BSE012211R1 page
ABB DSAI145-57120001-HA	Related Apter Power product	View ABB DSAI145-57120001-HA page
ABB DSAI130-57120001-P	Related Apter Power product	View ABB DSAI130-57120001-P page
ABB DSAI110-57120001-DP	Related Apter Power product	View ABB DSAI110-57120001-DP page
ABB DRA02-37411-4-0369673-IDENTITY-VERIFICATION	Related Apter Power product	View ABB DRA02-37411-4-0369673-IDENTITY-VERIFICATION page
ABB DPW02-IDENTITY-VERIFICATION	Related Apter Power product	View ABB DPW02-IDENTITY-VERIFICATION page
ABB DO630-3BHT300007R1	Related Apter Power product	View ABB DO630-3BHT300007R1 page
ABB DLM02	Related Apter Power product	View ABB DLM02 page

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.

Applications and Precautions

Common Applications

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.

Product 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.

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	1MRK000508-BDR06
Configuration	Review module recognition, input states, sequence-of-event indications and self-supervision.
Functional release	Simulate every assigned input and confirm the intended logic response before release.

Engineer FAQ

Q1 How should input-voltage class be verified for ABB 1MRK000508-BDR06?

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.

Q3 What must be preserved for ring-lug terminals when servicing ABB 1MRK000508-BDR06?

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

Q5 What official check applies to channel polarity for ABB 1MRK000508-BDR06?

Confirm the Relion 670 slot and installed terminal execution.

Q7 Which diagnostic confirms binary simulation for ABB 1MRK000508-BDR06?

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

Q2 Which record controls sixteen channel map on ABB 1MRK000508-BDR06?

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.

Q4 How is field isolation isolated before work on ABB 1MRK000508-BDR06?

Place the protected equipment and IED logic in the approved maintenance state. Isolate every connected binary-input circuit and apply ESD controls.

Q6 How is IED configuration restored after fitting ABB 1MRK000508-BDR06?

Restore the approved channel map and IED hardware configuration.

Q8 What proves acceptance record is accepted for ABB 1MRK000508-BDR06?

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

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