

INDUSTRIAL AUTOMATION PRODUCT

1MRK002239-BBR03

Relion 670 Series Power Supply Module

ABB 1MRK002239-BBR03 is a Relion 670 Series power supply module based on the documented 1MRK002239-BB 90-250 V DC execution. It supplies the installed protection-and-control IED hardware through the approved terminal arrangement.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB Relion 670 protection and control IED
Part number	1MRK002239-BBR03
Product role	Supplies the installed Relion 670 IED
Lifecycle	Installed product record

DOCUMENT SCOPE

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

MODEL-SPECIFIC ENGINEERING NOTE

Match 1MRK002239-BBR03 to the installed Relion 670 hardware execution and record supply conductors, terminal style, protective grounding and module position before removal. Restore the approved wiring and verify IED startup and power diagnostics before protection release.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



1MRK002239-BBR03

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	1MRK002239-BB	Supply range	90-250 V DC
Module type	Power supply 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	Supplies the installed Relion 670 IED
Connection boundary	Match 1MRK002239-BBR03 to the installed Relion 670 hardware execution and record supply conductors, terminal style, protective grounding and module position before removal. Restore the approved wiring and verify IED startup and power diagnostics before protection release.
Controlled acceptance duty	Relion 670 IED power restoration

ENGINEERING BOUNDARY

Confirm ABB 1MRK002239-BBR03, base order 1MRK002239-BB, Relion 670 host, 90-250 V DC supply, terminal execution, polarity, grounding, hardware position and controlled startup diagnostics before commissioning.

Pre-Installation Checks

- 1

Confirm ABB 1MRK002239-BBR03 and base ordering number 1MRK002239-BB.
- 2

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

Isolate the auxiliary supply and prove the module terminals de-energized.
- 4

Record every supply conductor, terminal designation, polarity and protective-earth connection.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	1MRK002239-BBR03
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 1MRK002239-BBR03 is a Relion 670 Series power supply module based on the documented 1MRK002239-BB 90-250 V DC execution. It supplies the installed protection-and-control IED hardware through the approved terminal arrangement.

FUNCTION 1
Supplies the installed Relion 670 IED

FUNCTION 2
Uses the documented high-voltage DC supply execution

FUNCTION 3
Preserves the approved IED power-module position

FUNCTION 4
Supports controlled protection-system restart

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	ABB Relion 670 protection and control IED
2	Power supply module
3	Relion 670 IED power restoration
4	Match 1MRK002239-BBR03 to the installed Relion 670 hardware execution and record supply conductors, terminal style, protective grounding and module position before removal. Restore the approved wiring and verify IED startup and power diagnostics before protection release.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	ABB Relion 670 protection and control IED
Interface role	Supplies the installed Relion 670 IED
Field / power context	The module is installed in the approved Relion 670 hardware position and interfaces the station auxiliary supply with the IED power rails. Commissioning confirms identity, terminal execution, polarity, grounding and controlled IED restart.
Commissioning evidence	Complete a controlled protection-system functional check before return to service.

Installation and Connection Checks

1

Confirm the installed Relion 670 hardware position and terminal execution.

2

Restore the documented conductors and approved IED hardware arrangement.

3

Energize under control and review IED power, self-supervision and communication diagnostics.

4

Complete a controlled protection-system functional check before return to service.

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

Relion 670 IED power restoration

Restores the documented power-supply position in a protection IED.

Substation protection maintenance

Supports controlled replacement without changing the IED function configuration.

Bay-control hardware service

Preserves auxiliary power and terminal identity during planned maintenance.

Protection-panel recommissioning

Provides the exact module identity for startup and diagnostic verification.

TECHNICAL NOTE

Match 1MRK002239-BBR03 to the installed Relion 670 hardware execution and record supply conductors, terminal style, protective grounding and module position before removal. Restore the approved wiring and verify IED startup and power diagnostics before protection release.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	1MRK002239-BBR03 recorded
Host / carrier	ABB Relion 670 protection and control IED
Physical interface	Supplies the installed Relion 670 IED
Configuration	Energize under control and review IED power, self-supervision and communication diagnostics.
Functional proof	Complete a controlled protection-system functional check before return to service.

IMPORTANT NOTICE

Confirm ABB 1MRK002239-BBR03, base order 1MRK002239-BB, Relion 670 host, 90-250 V DC supply, terminal execution, polarity, grounding, hardware position and controlled startup diagnostics before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	1MRK002239-BBR03
Approved role	Relion 670 IED power restoration
Final validation	Complete a controlled protection-system functional check before return to service.

Engineering Precautions

1	Confirm ABB 1MRK002239-BBR03 and base ordering number 1MRK002239-BB.	2	Place the protected primary equipment and IED in the approved maintenance state.
3	Isolate the auxiliary supply and prove the module terminals de-energized.	4	Record every supply conductor, terminal designation, polarity and protective-earth connection.
5	Confirm the installed Relion 670 hardware position and terminal execution.	6	Restore the documented conductors and approved IED hardware arrangement.
7	Energize under control and review IED power, self-supervision and communication diagnostics.	8	Complete a controlled protection-system functional check before return to service.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
ABB 1TGE120021R0810	Related Apter Power product	View ABB 1TGE120021R0810 page
ABB TU835V1-3BSE013236R1	Related Apter Power product	View ABB TU835V1-3BSE013236R1 page
ABB V18345-2010421001	Related Apter Power product	View ABB V18345-2010421001 page
ABB PM590-ETH-1SAP150000R0271	Related Apter Power product	View ABB PM590-ETH-1SAP150000R0271 page
ABB 3HAC043569-004	Related Apter Power product	View ABB 3HAC043569-004 page
ABB 3HAC5954-1	Related Apter Power product	View ABB 3HAC5954-1 page
ABB 3BHE022293R0101-PCD232A	Related Apter Power product	View ABB 3BHE022293R0101-PCD232A page
ABB DSQC332	Related Apter Power product	View ABB DSQC332 page

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



1MRK002239-BBR03