

ABB 2CSF204101R1630

ABB F204 A-63/0.03 Residual Current Circuit Breaker User Manual

Model: 2CSF204101R1630

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the ABB F204 A-63/0.03 Residual Current Circuit Breaker (RCCB). This device is designed to protect against electric shock by detecting and interrupting earth leakage currents. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. SAFETY INFORMATION

WARNING: Electrical installation and maintenance should only be performed by qualified and authorized personnel in accordance with all local and national electrical codes and regulations. Failure to follow these instructions can result in serious injury, death, or property damage.

- Always disconnect power at the main supply before installing, servicing, or removing the RCCB.
- Verify that the voltage and current ratings of the RCCB match the requirements of your electrical system.
- Ensure proper grounding of the electrical system.
- Do not operate the device if it appears damaged or has been subjected to excessive force.
- Protect the device from moisture, dust, and extreme temperatures.
- The 'TEST' button should be pressed regularly (e.g., monthly) to ensure proper operation of the tripping mechanism.

3. PRODUCT OVERVIEW

The ABB F204 A-63/0.03 is a 4-pole residual current circuit breaker designed for robust performance in various electrical applications. It features clear markings for current and voltage ratings, a test button, and a visible switch lever.



An image showing the ABB F204 A-63/0.03 Residual Current Circuit Breaker. The device is a four-pole unit with a grey casing, featuring connection terminals at the top and bottom. A red stripe runs across the front, above a white 'TEST' button and a blue switch lever. Key specifications like 'F204 A', '63A', '0,03A', and 'Un=400V' are visible on the label. The 'MADE IN ITALY' marking is also present on the side.

Key Components:

- **Terminals:** For connecting incoming and outgoing electrical wires.
- **Switch Lever:** Indicates the ON (up) or OFF (down/tripped) status of the circuit breaker.
- **'TEST' Button:** Used to manually test the tripping mechanism of the RCCB.
- **Rating Label:** Displays critical information such as model number, rated current (63A), residual current (0.03A), and rated voltage (400V).

4. INSTALLATION

The ABB F204 A-63/0.03 RCCB is designed for plug-in mounting, typically on a DIN rail within an electrical distribution board.

Installation Steps:

1. **Power Disconnection:** Ensure that the main power supply to the electrical panel is completely disconnected and locked out. Verify with a voltage tester.
2. **Mounting:** Securely mount the RCCB onto the DIN rail in the designated slot within the electrical enclosure.
3. **Wiring:** Connect the incoming phase and neutral conductors to the upper terminals (1, 3, 5, 7) and the outgoing phase and neutral conductors to the lower terminals (2, 4, 6, 8) as indicated on the device. Ensure all connections are tight and secure to prevent loose contacts and overheating.
4. **Torque:** Apply the recommended tightening torque to the terminal screws as specified in the product documentation (if available).
5. **Verification:** Double-check all wiring connections for correctness and security.
6. **Enclosure Closure:** Close the electrical enclosure securely.
7. **Power Restoration:** Restore power to the main supply.

5. OPERATION

Switching On/Off:

- To switch the circuit ON, push the blue switch lever upwards.
- To switch the circuit OFF, push the blue switch lever downwards.
- If the RCCB trips due to an earth leakage fault, the lever will automatically move to the OFF position.

Testing the RCCB:

The 'TEST' button is crucial for verifying the internal tripping mechanism of the RCCB. Regular testing is recommended to ensure continued protection.

- Ensure the circuit is live and the RCCB is in the ON position.
- Press the 'TEST' button firmly. The RCCB should immediately trip, moving the switch lever to the OFF position.
- If the RCCB does not trip, it indicates a malfunction, and the device should be replaced immediately.
- After testing, reset the RCCB by pushing the lever fully down and then back up to restore power.
- It is recommended to perform this test monthly.

6. MAINTENANCE

The ABB F204 A-63/0.03 RCCB is designed for minimal maintenance. However, regular checks are important for optimal performance and safety.

- **Regular Testing:** As mentioned in the Operation section, press the 'TEST' button monthly.
- **Visual Inspection:** Periodically inspect the RCCB for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the device with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

7. TROUBLESHOOTING

If your ABB F204 A-63/0.03 RCCB is not functioning as expected, refer to the following table for common issues and their

potential solutions.

Problem	Possible Cause	Solution
RCCB trips frequently.	Earth leakage fault in the circuit; faulty appliance; insulation breakdown.	Identify and rectify the earth leakage fault. Disconnect appliances one by one to isolate the faulty one. Consult a qualified electrician.
RCCB does not trip when 'TEST' button is pressed.	Faulty RCCB; no power to the RCCB.	Verify power supply to the RCCB. If power is present, the RCCB is faulty and must be replaced by a qualified electrician.
RCCB does not stay ON.	Persistent earth leakage fault; internal fault in RCCB.	Check for and rectify any earth leakage faults. If no fault is found, the RCCB may be faulty and requires replacement.
Overheating at terminals.	Loose connections; overloaded circuit.	Disconnect power and tighten terminal screws. Ensure the circuit load does not exceed the RCCB's rated current.

If the problem persists after attempting these solutions, or if you are unsure about any step, contact a qualified electrician or ABB customer support.

8. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the ABB F204 A-63/0.03 Residual Current Circuit Breaker.

Specification	Value
Model Number	2CSF204101R1630
Brand	ABB
Circuit Breaker Type	Standard Residual Current Circuit Breaker (RCCB)
Number of Poles	4
Rated Current (In)	63 Amps
Rated Residual Current (IΔn)	0.03 Amps (30mA)
Rated Voltage (Un)	400V
Mounting Type	Plug-In Mount (DIN Rail)
ASIN	B07HCC6V8X
Date First Available	July 17, 2019

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please refer to the official ABB website or contact your local ABB distributor. Keep your purchase receipt as proof of purchase for any warranty claims.

ABB Official Website: www.abb.com

Related Documents

 aardlekschakelaar 2-polig 40A 30mA type A (F202 A-40/0.03) (2CSF202101R1400) MEER DAN ELEKTRA ELEKTRAMAT	ABB F202 A-40/0.03 2-Pole 40A 30mA Type A Earth Leakage Circuit Breaker Specifications and product description for the ABB F202 A-40/0.03, a 2-pole 40A 30mA Type A earth leakage circuit breaker. Features include quick safety response, 40A load capacity, compact design, and NEN1010 compliance for 1-phase installations.
 FH204 AC-40/0.3 Residual Current Circuit Breaker - 4P - Type AC - 300 mA - 40 A ABB	ABB FH204 AC-40/0.3 Residual Current Circuit Breaker - Technical Specifications and Product Details Detailed technical specifications, product information, and compliance data for the ABB FH204 AC-40/0.3 Residual Current Circuit Breaker. This 4-pole Type AC circuit breaker is rated at 40A and has a 300mA residual current.
 aardlekautomaat 1-polig+nul 16A B-kar 30mA (DS201 B16 A30) (2CSR201100R1160) MEER DAN ELEKTRA ELEKTRAMAT	ABB Residual Current Circuit Breaker DS201 B16 A30 - 16A, 30mA Technical specifications and product description for the ABB DS201 B16 A30 residual current circuit breaker. Features 16A current, 30mA leakage current, B-curve tripping characteristic, and 6kA breaking capacity.
 ABB	ABB PCS100 SFC Static Frequency Converter Technical Catalogue Technical catalogue detailing the ABB PCS100 SFC Static Frequency Converter, including system overview, sub-assemblies, control features, selection and sizing, product range, technical specifications, layout plans, power module types, input termination locations, options, and examples of systems.



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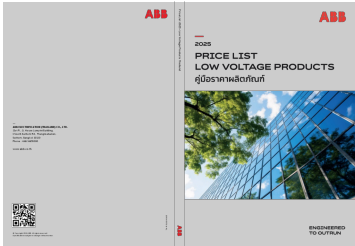
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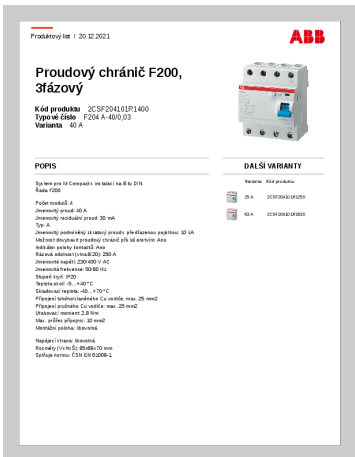
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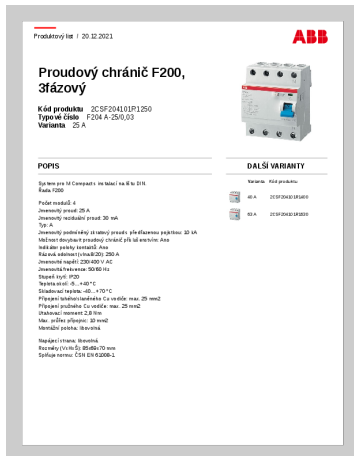


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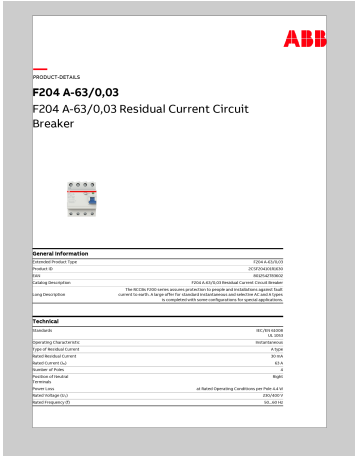
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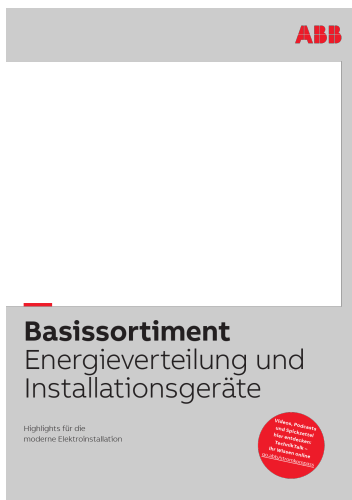
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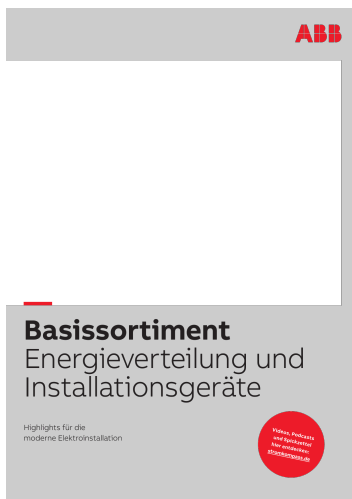
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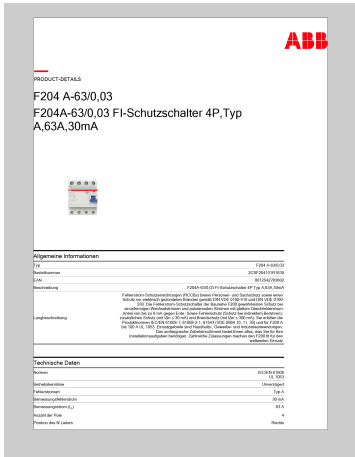
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Technisches Datenblatt ABB System pro M compact FI Schutzschalter F 204 63 A 4 polig 0 03

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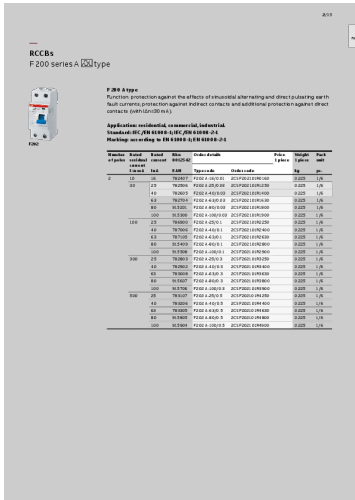
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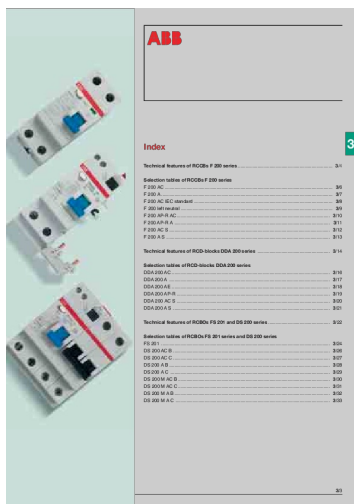
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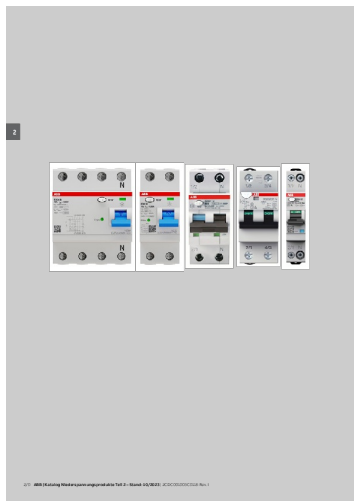
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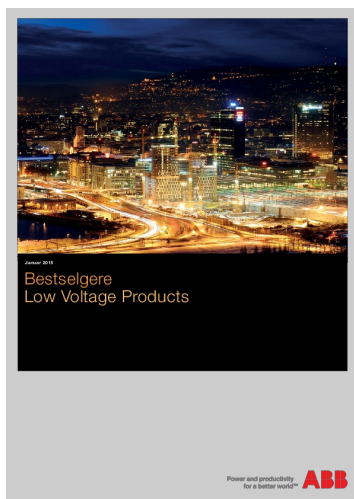
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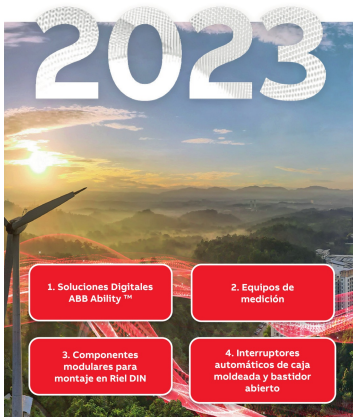
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