



Manuals.plus /

› Bussmann /

› CM20F BUSSMANN Fuse-Holder Instruction Manual

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Model: CM20F | Brand: Bussmann

1. PRODUCT OVERVIEW

The Bussmann CM20F is a high-quality fuse holder designed for industrial and electrical applications. It is engineered to safely house and protect fuses, ensuring reliable circuit protection in various systems. This fuse holder is rated for 20 Amps and 690 Volts AC, conforming to BS88/A1 standards.



Figure 1: Bussmann CM20F Fuse Holder. This image displays the black, rectangular fuse holder with its yellow product label clearly visible, showing the model number and electrical ratings.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing, servicing, or removing fuses from the holder.
- Ensure the fuse holder and fuse ratings match the circuit requirements.
- Do not exceed the maximum voltage (690V) or current (20A) ratings.
- Use only fuses of the correct type and rating for this holder.
- Inspect the fuse holder for any damage before installation and periodically thereafter.

3. SPECIFICATIONS

Attribute	Value
Brand	Bussmann
Model	CM20F
Current Rating	20 Amps
Voltage Rating	690 Volts
Standard	BS88/A1
Pole Configuration	1 Pole

4. SETUP AND INSTALLATION

The CM20F fuse holder is designed for secure mounting within an electrical panel or enclosure. Follow these steps for proper installation:

- Power Disconnection:** Ensure all power to the circuit where the fuse holder will be installed is completely disconnected and locked out. Verify with a voltage tester.
- Mounting:** Securely mount the fuse holder to a DIN rail or appropriate mounting surface using the integrated mounting mechanism. Ensure it is firmly seated to prevent movement.
- Wiring:** Connect the circuit wires to the designated terminals on the fuse holder. Ensure proper polarity and tight connections to prevent arcing or overheating. Refer to local electrical codes and wiring diagrams.
- Fuse Insertion:** Once the holder is securely mounted and wired, carefully insert the appropriate BS88/A1 type fuse (e.g., 20A, 690V) into the holder. Ensure the fuse is fully seated.
- Verification:** Double-check all connections and ensure the fuse is correctly installed before restoring power.

5. OPERATING INSTRUCTIONS

The Bussmann CM20F fuse holder operates passively by housing a fuse that protects the electrical circuit. Its primary function is to provide a safe and accessible point for fuse installation and replacement.

- Normal Operation:** When a fuse is correctly installed, the fuse holder allows current to flow through the circuit.
- Fuse Blown Indication:** Some fuse types may have a visual indicator (e.g., a pop-up pin or discoloration) to show when the fuse has blown. The CM20F holder itself does not have an integrated indicator.
- Fuse Replacement:** If a fuse blows, follow the safety instructions in Section 2. Disconnect power, remove the blown fuse, and insert a new fuse of the exact same type and rating.

6. MAINTENANCE

The CM20F fuse holder requires minimal maintenance. Regular inspection is recommended to ensure continued safe and reliable operation.

- Periodic Inspection:** Annually or as required by local regulations, inspect the fuse holder for signs of physical damage, discoloration, or loose connections.
- Cleaning:** If necessary, gently clean the exterior of the fuse holder with a dry, lint-free cloth. Do not

use abrasive cleaners or solvents.

- **Terminal Tightness:** Periodically check and re-tighten terminal screws to ensure good electrical contact, especially in environments with vibration.

7. TROUBLESHOOTING

Most issues related to a fuse holder involve the fuse itself or improper installation.

Problem	Possible Cause	Solution
Circuit not receiving power	Blown fuse	Disconnect power, replace fuse with correct type and rating. Investigate cause of fuse blowing.
Fuse holder overheating	Loose connections; Overcurrent; Incorrect fuse type	Disconnect power, check and tighten all connections. Ensure circuit current does not exceed fuse rating. Verify correct fuse type.
Difficulty inserting/removing fuse	Incorrect fuse size/type; Debris in holder	Ensure fuse matches BS88/A1 standard and correct dimensions. Inspect holder for obstructions and clear if necessary (with power off).

8. SUPPORT

For technical assistance, product inquiries, or warranty information, please contact Bussmann customer support or visit their official website. Always refer to the specific product documentation provided by Bussmann for the most accurate and up-to-date information.

Note: This manual provides general guidelines. Always adhere to local electrical codes and safety regulations.