

Bolted Pressure Contact Switches Type BM

Applications Include

AC/DC Switchboards

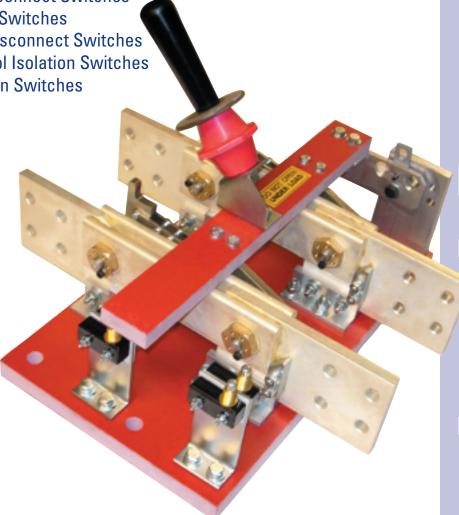
Rectifier Disconnect Switches

Contact Rail Switches

• Trolleyline Disconnect Switches

Motor Control Isolation Switches





Applications

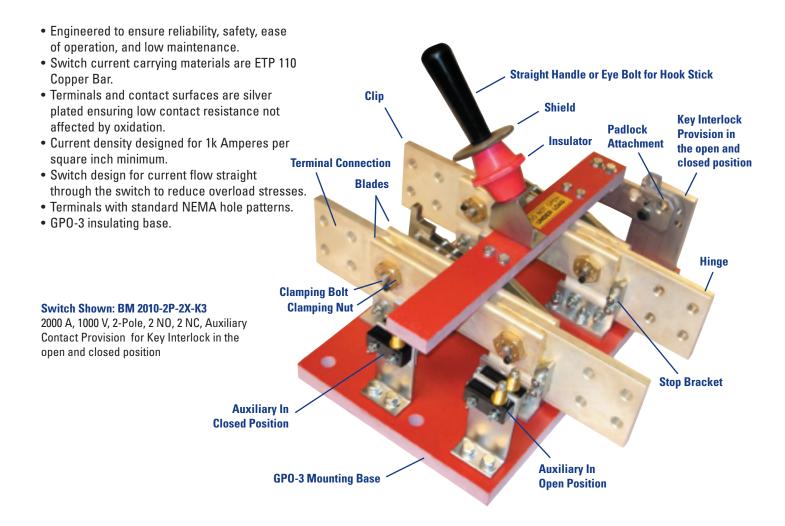
Filnor BM Bolted Pressure Contact Switches are designed for non-load break applications. Typical application is for circuit isolation in many types of systems, including industrial motor controls, AC/DC distribution panels, and power distribution for transit systems.

What is a Type BM Bolted Pressure Switch

The Filnor Type BM is an open style switch utilizing the proven Filnor Inc. bolted pressure contact design.

The Filnor bolted pressure switch is a visible blade disconnect incorporating movable blades with a fixed hinged contact. At each contact interface, a clamping bolt is utilized to ensure high contact force and low contact resistance in a joint. The design features a double acting mechanism that closes the movable blades into the clip contacts, it then rotates the clamping bolt through an actuator linkage, effectively tightening both the clip and hinge contact joints. The result is a joint with current carrying capacity similar to that of a bolted busbar.

Design Features





BM BOLTED PRESSURE CONTACT SWITCHES TYPE BM

Design Criteria & Testing

- Individual units are factory tested prior to shipment for:
 - Dielectric Withstand
 - Contact resistance
 - Dimensional Outline
 - Build Configuration
- A copy of the factory test report is included with each switch.
- Switches are designed and tested in strict accordance with the following standards as applicable, UL, CUI, Nema, ANSI, IEEE.
- Each switch unit is date coded on a label for tracing purposes.
- Applicable warning signs applied.

Typical Switch Ratings

- Continuous Current Ratings (Amperes): 800-12,000
- Fault Current Rating: 160 kA DC @ 100 ms
- Voltage Rating: Up to 2,000 VAC/DC
- * 40 degrees C ambient with 60 degrees C rise.

Benefits Include

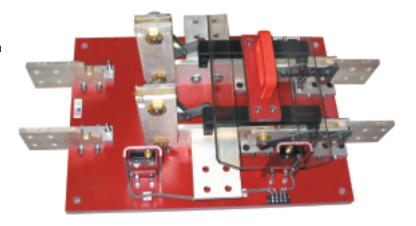
- Clean Compact Design
- Rugged Construction
- Proven Performance
- High Current Capacity
- Large Isolation Air Gap and Creepage Paths
- Standard NEMA Drilling on Terminal Paths
- Extensive Options List to adapt Switch to the Application

Available Switch Configurations

- Single Throw
- Double Throw
- 1 thru 4 Poles
- Front & Side Hand Operated
- Hook Stick Operated
- Motor Operated
- Pole Mounted
- Floor & Pad Mounted
- Wall Mounted
- Fusible & Non-Fusible



6000 A, 1000 V DC, 1-Pole, Single Throw, Motor Operated, With Auxiliary Contacts, Special Design



2000 A, 1000 V, 2-Pole, Double Throw, Special Design Type BM

M BOLTED PRESSURE CONTACT SWITCHES TYPE RM

Switch Operator

The TYPE BM switch utilizes a straight type handle, or hook stick eye, attached through an insulator to the hinge actuator assembly to manually open and close the switch. Insulating material and a shield are provided to prevent contact with electrically live components. The switch is not to be operated under load conditions.

Terminal Arrangements

The TYPE BM switch terminals are drilled to NEMA standards.

Switch Stop and Padlock Attachment

The TYPE BM switch is provided with a rugged positive stop in the open position. Provisions for padlocking the switch in the open and closed positions are provided.

Switch Enclosures

Enclosures for the TYPE BM switch are to be designed for vertical switch mounting. Switch supporting structure must be flat and parallel where the switch is mounted.

Available Options

- Cable connectors
- Auxiliary contacts
- Key interlock provisions
- Key interlocks
- Hook stick operator
- Fusible
- Motor operated
- Front operated handle assembly (for operating outside enclosure)
- Higher currents and voltages
- Special designs application



4000 A, 5kV, Outdoor, Pole Mounted, Trolley Line Disconnect Switch

Common Switches

1,000 VOLT DC 1,000 VOLT AC		
AMP	1 Pole	2 Pole
800	BM-08-10-1P	BM-08-10-2P
1200	BM-12-10-1P	BM-12-10-2P
1600	BM-16-10-1P	BM-16-10-2P
2000	BM-20-10-1P	BM-20-10-2P
2500	BM-25-10-1P	BM-25-10-2P
3000	BM-30-10-1P	BM-30-10-2P
4000	BM-40-10-1P	BM-40-10-2P
5000	BM-50-10-1P	BM-50-10-2P
6000	BM-60-10-1P	BM-60-10-2P
8000	BM-80-10-1P	-
10.000	BM-100-10-1P	-
12,000	BM-120-10-1P	-

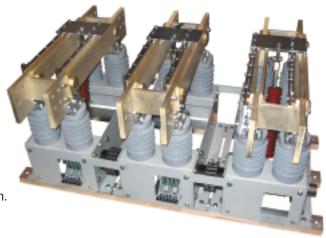
Refer to attached drawings for single throw switch dimensions and options.



BM BOLTED PRESSURE CONTACT SWITCHES TYPE BM

Ordering Data

- 1) Switch Rating
- 2) Voltage Insulation Rating
- 3) Number of Poles
- 4) Auxiliary Switch Position (If Required)
- 5) Key Interlock Position (If Required)
- 6) Hook Stick Operator (If Required)
- 7) Additional Specifications
- Handle Operator Provided as Standard.
- Refer to the proper switch data sheet for ordering information.



Other Filnor Switch Products Available

Type EBM Switches

Enclosed Bolted Pressure Switch with side operated manual handle, non-load break.

Type BPI Switches

Enclosed Bolted Pressure Switch with side operated Quick Brake Mechanism and Arc Breaking capability.

Type DB Switches

High Current Switch applications.

Medium Voltage Switches

Isolation and grounding applications. 200 - 12,000 Ampere, 5 kV - 38 kV.

Knife Switches

Transfer Switches

Open or enclosed.

Custom Designed Switches

Switches designed to suit your exact specifications.

Please contact Filnor, Inc. for complete information on the above products, as well as additional Resistor and Control Units not listed.

Special Design Medium Voltage Switch 6300 A, 15 kV, 3-Pole, Single Throw, Motor Operated,

Medium Voltage Bolted Pressure Switch

3000 A, 250 V DC, 2-Pole, Single Throw, Fusible, Type BPI Switch Crane Rail Disconnect

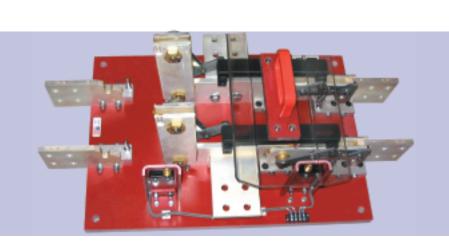
BM BOLTED PRESSURE CONTACT SWITCHES TYPE BM



1600 A, 1000 V, 1-Pole, Single Throw, Type BM



2000 A, 1000 V, 2-Pole, Single Throw, Type BM



2000 A, 1000 V, 2-Pole, Double Throw, Special Design Type BM

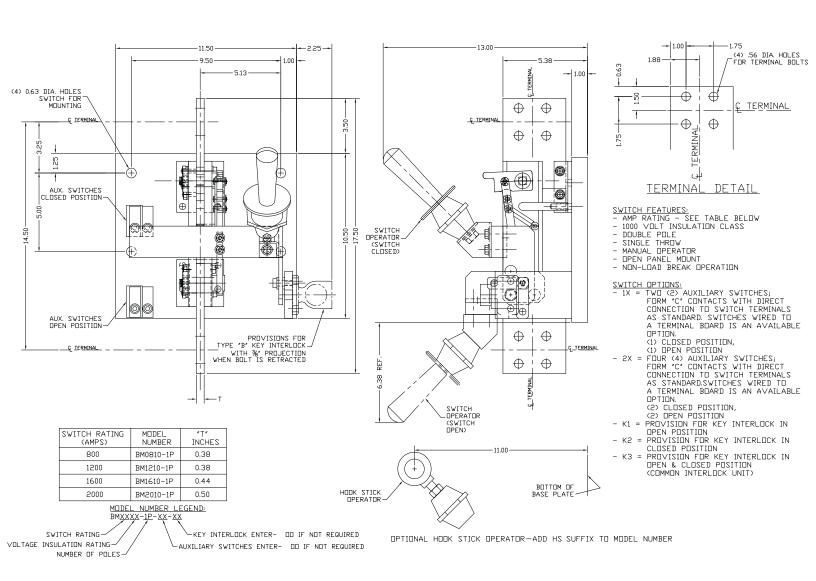


6000 A, 1000 V DC, 1-Pole, Single Throw, Motor Operated, With Auxiliary Contacts, Special Design



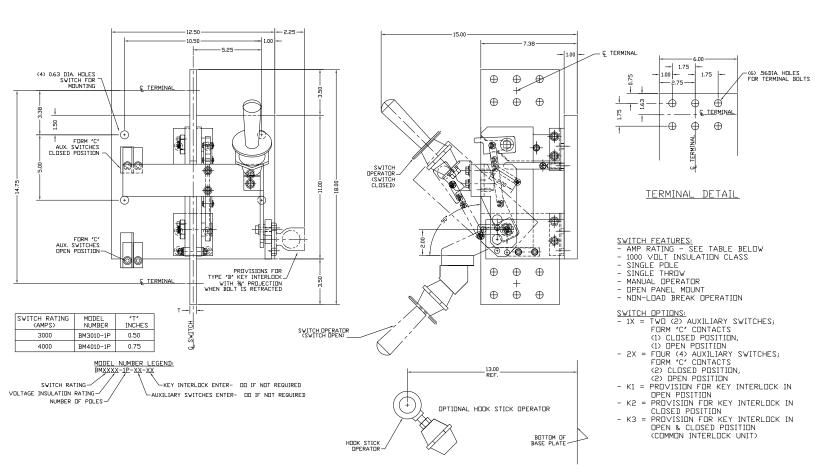
BM BOLTED PRESSURE CONTACT SWITCHES TYPE BM

Common Switches 800 - 2000 Ampere, 1-Pole, Single Throw



BM BOLTED PRESSURE CONTACT SWITCHES TYPE BM

Common Switches 3000 & 4000 Ampere, 1-Pole, Single Throw

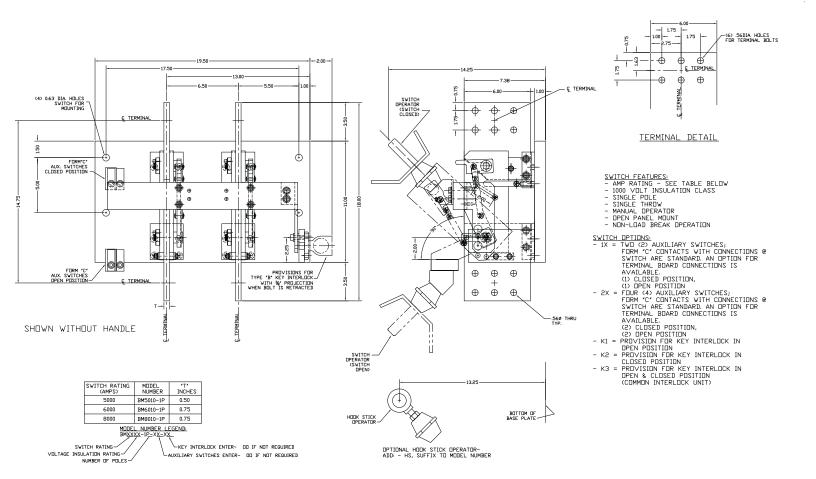


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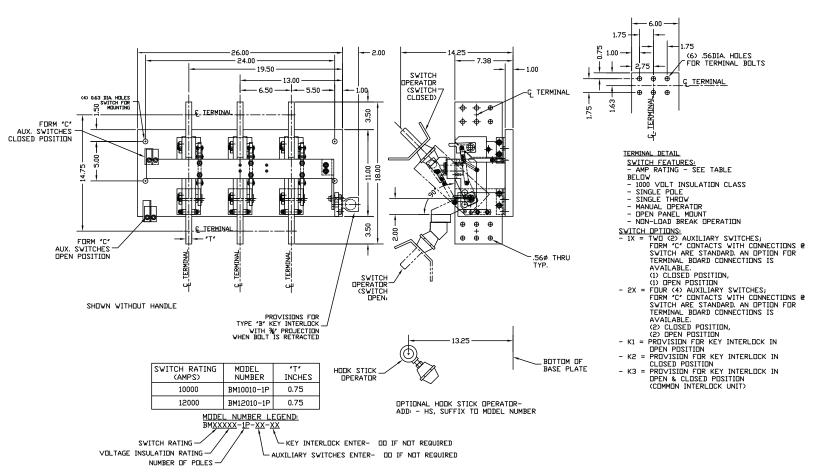
Common Switches 5000 - 8000 Ampere, 1-Pole, Single Throw



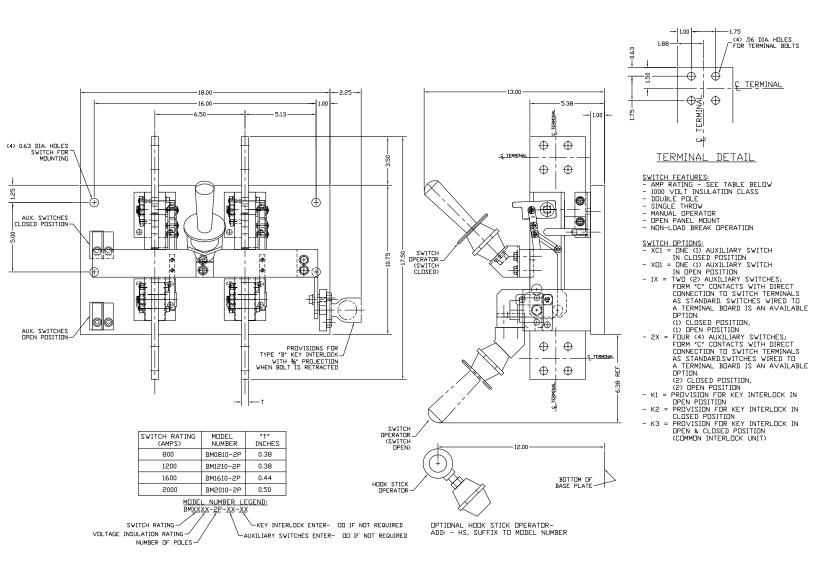


BM BOLTED PRESSURE CONTACT SWITCHES TYPE BM

Common Switches 10,000 & 12,000 Ampere, 1-Pole, Single Throw



Common Switches 800 - 2000 Ampere, 2-Pole, Single Throw





Please contact Filnor, Inc. for more information regarding our Bolted Pressure Contact Switches

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