



## Eaton 170236

Eaton Distribution parts. Residual-current circuit breaker trip block for FAZ, 63A, 4p, 1000mA, type A

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|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller series<br>xEffect - FBSmV RCCB add-<br>on unit |
| <b>CATALOG NUMBER</b>           | 170236                                                       |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 90 mm                                                        |
| <b>PRODUCT HEIGHT</b>           | 75 mm                                                        |
| <b>PRODUCT WIDTH</b>            | 125 mm                                                       |
| <b>PRODUCT WEIGHT</b>           | 0.34 kg                                                      |
| <b>COMPLIANCES</b>              | RoHS conform                                                 |
| <b>CERTIFICATIONS</b>           | EN45545-2<br>IEC 61373<br>IEC/EN 61009                       |

**USED WITH**

FBSmV  
Add-on residual current  
protection unit  
Type A

**AMPERAGE RATING**

63 A

**FEATURES**

Add-on residual current  
protection unit  
Additional equipment  
possible

**10.10 TEMPERATURE RISE**

The panel builder is  
responsible for the  
temperature rise  
calculation. Eaton will  
provide heat dissipation  
data for the devices.

**10.11 SHORT-CIRCUIT  
RATING**

Is the panel builder's  
responsibility. The  
specifications for the  
switchgear must be  
observed.

**10.12 ELECTROMAGNETIC  
COMPATIBILITY**

Is the panel builder's  
responsibility. The  
specifications for the  
switchgear must be  
observed.

**10.13 MECHANICAL  
FUNCTION**

The device meets the  
requirements, provided  
the information in the  
instruction leaflet (IL) is  
observed.

**10.2.2 CORROSION  
RESISTANCE**

Meets the product  
standard's requirements.

**10.2.3.1 VERIFICATION OF  
THERMAL STABILITY OF  
ENCLOSURES**

Meets the product  
standard's requirements.

**10.2.3.2 VERIFICATION OF  
RESISTANCE OF  
INSULATING MATERIALS  
TO NORMAL HEAT**

Meets the product  
standard's requirements.

**10.2.3.3 RESIST. OF  
INSUL. MAT. TO  
ABNORMAL HEAT/FIRE  
BY INTERNAL ELECT.  
EFFECTS**

Meets the product  
standard's requirements.

**10.2.4 RESISTANCE TO  
ULTRA-VIOLET (UV)  
RADIATION**

Meets the product  
standard's requirements.

**10.2.5 LIFTING**

Does not apply, since the  
entire switchgear needs to  
be evaluated.

**10.2.6 MECHANICAL  
IMPACT**

Does not apply, since the  
entire switchgear needs to

[eaton-pbsm-  
dimensions.jpg](#)

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                 | be evaluated.                                                      |
| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                             |
| <b>FITTED WITH:</b>                                             | Interlocking device                                                |
| <b>FRAME</b>                                                    | 45 mm                                                              |
| <b>FREQUENCY RATING</b>                                         | 50 Hz                                                              |
| <b>POLLUTION DEGREE</b>                                         | 2                                                                  |
| <b>MOUNTING METHOD</b>                                          | DIN rail<br>Permanent screw connection with FAZ                    |
| <b>CLIMATIC PROOFING</b>                                        | 25-55 °C / 90-95% relative humidity according to IEC 60068-2       |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 25 W                                                               |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 4 kV                                                               |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                 | 0 kA<br>10 kA                                                      |
| <b>BUILT-IN WIDTH (NUMBER OF UNITS)</b>                         | 125 mm (4 SU)                                                      |
| <b>BUSBAR MATERIAL THICKNESS</b>                                | 0.8 mm - 2 mm                                                      |
| <b>TERMINAL PROTECTION</b>                                      | Finger and hand touch                                              |

|                                                                |                                                                                                                        |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|                                                                | safe, DGUV VS3, EN 50274                                                                                               |
| <b>TERMINALS (TOP AND BOTTOM)</b>                              | Lift terminals                                                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                     | 40 °C                                                                                                                  |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                     | -25 °C                                                                                                                 |
| <b>BUILT-IN DEPTH</b>                                          | 70 mm                                                                                                                  |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b> | 35 mm <sup>2</sup>                                                                                                     |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b> | 0.75 mm <sup>2</sup>                                                                                                   |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>  | 35 mm <sup>2</sup>                                                                                                     |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>  | 0.75 mm <sup>2</sup>                                                                                                   |
| <b>FAULT CURRENT RATING</b>                                    | 1000 mA                                                                                                                |
| <b>HEAT DISSIPATION CAPACITY</b>                               | 0 W                                                                                                                    |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>            | 0 W                                                                                                                    |
| <b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX</b>       | 60 °C                                                                                                                  |
| <b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN</b>       | -35 °C                                                                                                                 |
| <b>DEGREE OF PROTECTION</b>                                    | IP20<br>IP20, IP40 with suitable enclosure                                                                             |
| <b>IMPULSE WITHSTAND CURRENT</b>                               | Partly surge-proof 250 A                                                                                               |
| <b>NUMBER OF POLES</b>                                         | Four-pole                                                                                                              |
| <b>LEAKAGE CURRENT TYPE</b>                                    | A                                                                                                                      |
| <b>TYPE</b>                                                    | Ambient temperature hint:<br>Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C |
| <b>SPECIAL FEATURES</b>                                        | <ul style="list-style-type: none"> <li>Add-on residual current protection</li> </ul>                                   |

- unit
- FBSmV
- Type A

#### APPLICATION

- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

**SENSITIVITY TYPE** Pulse-current sensitive

**RATED FAULT CURRENT - MAX** 1 A

**RATED FAULT CURRENT - MIN** 1 A

**RATED INSULATION VOLTAGE (UI)** 440 V

**RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** 63 A

**RATED OPERATIONAL VOLTAGE (UE) - MAX** 415 V

**STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT** 0 W

**SURGE CURRENT CAPACITY** 0.25 kA

**VOLTAGE RATING - MAX** 415 V

**VOLTAGE RATING - MIN** 240 V

**WIDTH IN NUMBER OF MODULAR SPACINGS** 7

**TRIPPING TIME** Non-delayed

**RATED SHORT-CIRCUIT STRENGTH** Same as connected FAZ up to max. 10 kA

**POWER LOSS** 7.4 W

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
|                 |



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