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## Eaton 168220

Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 100mA, MCB trip type C, 2p, RCCB trip type: A

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|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection |
| <b>CATALOG NUMBER</b>       | 168220                                                                                                   |
| <b>PRODUCT LENGTH/DEPTH</b> | 86 mm                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 75 mm                                                                                                    |
| <b>PRODUCT WIDTH</b>        | 37 mm                                                                                                    |
| <b>PRODUCT WEIGHT</b>       | 0.25 kg                                                                                                  |
| <b>COMPLIANCES</b>          | CE Marked<br>RoHS conform                                                                                |
| <b>CERTIFICATIONS</b>       | CE                                                                                                       |

## Delivery Program

|                                                               |                                                                                                |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>BASIC FUNCTION</b>                                         | Combined RCD/MCB devices                                                                       |
| <b>NUMBER OF POLES (TOTAL)</b>                                | 2                                                                                              |
| <b>TRIPPING CHARACTERISTIC</b>                                | C                                                                                              |
| <b>TYPE</b>                                                   | RCBO                                                                                           |
| <b>APPLICATION</b>                                            | Switchgear for industrial and advanced commercial applications                                 |
| <b>TRIPPING CHARACTERISTIC</b>                                | C                                                                                              |
| <b>TYPE</b>                                                   | RCBO                                                                                           |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                 | Does not apply, since the entire switchgear needs to be evaluated.                             |
| <b>SENSITIVITY TYPE</b>                                       | Pulse-current sensitive                                                                        |
| <b>10.11 SHORT-CIRCUIT RATING</b>                             | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b> | Does not apply, since the entire switchgear needs to be evaluated.                             |

## Technical Data - Electrical

|                                |                         |
|--------------------------------|-------------------------|
| <b>SENSITIVITY TYPE</b>        | Pulse-current sensitive |
| <b>TRIPPING CHARACTERISTIC</b> | C                       |

| Technical Data                                                             |                                                                                                                                  |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 10.2.5 LIFTING                                                             | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| CURRENT LIMITING CLASS                                                     | 3                                                                                                                                |
| RATED SWITCHING CAPACITY (IEC/EN 61009)                                    | 10 kA                                                                                                                            |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)                         | 0 kA                                                                                                                             |
| DISCONNECTION CHARACTERISTIC                                               | Short-time delayed                                                                                                               |
| 10.10 TEMPERATURE RISE                                                     | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| WIDTH IN NUMBER OF MODULAR SPACINGS                                        | 2                                                                                                                                |
| HEAT DISSIPATION CAPACITY                                                  | 0 W                                                                                                                              |
| 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT | Meets the product standard's requirements.                                                                                       |
| POLLUTION DEGREE                                                           | 2                                                                                                                                |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH                                   | Is the panel builder's responsibility.                                                                                           |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

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|----------------------|-------------------------------------------------------------------------------------|
| CHARACTERISTIC CURVE | <a href="#">eaton-xeffect-frbdm-characteristic-curve.jpg</a>                        |
| □□□                  | <a href="#">eaton-xeffect-frbdm-wiring-diagram-002.jpg</a>                          |
| □□□□                 | <a href="#">eaton-xeffect-digital-circuit-breaker-brochure-br003004en-en-us.pdf</a> |
| □□□□                 | <a href="#">eaton-xeffect-digital-switchgear-brochure-br003004en-en-us.pdf</a>      |
| □□□□                 | <a href="#">eaton-xeffect-frbdm-rcbo-catalog-ca003013en-en-us.pdf</a>               |
| □□                   | <a href="#">eaton-xeffect-frbdm-dimensions.jpg</a>                                  |
| □□                   | <a href="#">eaton-xeffect-frbdm-3d-drawing-005.jpg</a>                              |
|                      | <a href="#">eaton-xeffect-frbdm-3d-drawing-002.jpg</a>                              |



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