

## Eaton 168292

Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 100mA, MCB trip type D, 1-phase+N, RCCB trip type: A

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
|                             |                                                                                                          |
| <b>PRODUCT NAME</b>         | Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection |
| <b>CATALOG NUMBER</b>       | 168292                                                                                                   |
| <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>                                | D                                                                                              |
| <b>TYPE</b>                                                   | RCBO                                                                                           |
| <b>APPLICATION</b>                                            | Switchgear for industrial and advanced commercial applications                                 |
| <b>TRIPPING CHARACTERISTIC</b>                                | D                                                                                              |
| <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> | D                       |

## Technical Data

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:

## CHARACTERISTIC CURVE

[eaton-xeffect-frbdm-characteristic-curve.jpg](#)

[eaton-xeffect-frbdm-wiring-diagram.jpg](#)

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