



Eaton 305930

Eaton Moeller series xEffect - FAZ-DC MCB.
B, 50A, 1pole, RT

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| PRODUCT NAME | Eaton Moeller series xEffect - FAZ-DC MCB |
| CATALOG NUMBER | 305930 |
| PRODUCT LENGTH/DEPTH | 105 mm |
| PRODUCT HEIGHT | 75.5 mm |
| PRODUCT WIDTH | 35.4 mm |
| PRODUCT WEIGHT | 0.123 kg |
| COMPLIANCES | RoHS conform |
| CERTIFICATIONS | EN45545-2 IEC 61373 |



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| AMPERAGE RATING | 50 A |
| FEATURES | 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 be evaluated. |
| 10.2.7 INSCRIPTIONS | Meets the product standard's requirements. |
| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |

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| CHARACTERISTIC CURVE | eaton-xeffect-faz-dc-mcb-characteristic-curve-002.jpg eaton-xeffect-faz-dc-mcb-characteristic-curve.jpg |
| □□□ | eaton-xeffect-faz-dc-mcb-wiring-diagram.jpg |
| □□ | eaton-xeffect-faz-dc-mcb-dimensions-003.jpg eaton-xeffect-faz-dc-mcb-3d-drawing-004.jpg |

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| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | Is the panel builder's responsibility. |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| FRAME | 45 mm |
| POLLUTION DEGREE | 2 |
| LIFESPAN, MECHANICAL | 20000 operations |
| DEGREE OF PROTECTION | IP20 |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 4 kV |
| TERMINAL PROTECTION | Finger and hand touch safe, DGUV VS3, EN 50274 |
| TERMINALS (TOP AND BOTTOM) | Lift terminals |
| TRIPPING CHARACTERISTIC | B |
| AMBIENT OPERATING TEMPERATURE - MAX | 75 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| BUILT-IN DEPTH | 75.5 mm |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX | 25 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN | 1 mm ² |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX | 25 mm ² |

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| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN | 1 mm ² |
| CURRENT LIMITING CLASS | 3 |
| WIDTH IN NUMBER OF MODULAR SPACINGS | 1 |
| VOLTAGE TYPE | DC |
| MOUNTING POSITION | As required |
| OVERVOLTAGE CATEGORY | III |
| NUMBER OF POLES | Single-pole |
| LIFESPAN, ELECTRICAL | 4000 operations |
| RELEASE CHARACTERISTIC | B |

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| TYPE | <ul style="list-style-type: none"> • FAZ-DC • Miniature circuit breaker |
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| MOUNTING WIDTH | 17.7 mm |
| SELECTIVITY CLASS | 3 |
| MOUNTING WIDTH PER POLE | 17.7 mm |
| NUMBER OF POLES (PROTECTED) | 1 |
| NUMBER OF POLES (TOTAL) | 1 |
| RATED INSULATION VOLTAGE (UI) | 440 V |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 250 V |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V | 10 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V | 10 kA |
| RATED SWITCHING CAPACITY (IEC/EN 60947-2) | 10 kA |
| TERMINAL CAPACITY (CONTROL CABLE) | 25 mm ² (1x) |

