

Specifications



Photo is representative

Eaton 259818

Eaton Moeller series NZM Shunt release,
208-240VAC/DC, +1early N/O, for NZM2/3

General specifications

| | |
|---------------------------------|---|
| PRODUCT NAME | Eaton Moeller series NZM Shunt release |
| CATALOG NUMBER | 259818 |
| MODEL CODE | NZM2/3-XAHIV208- 250AC/DC |
| EAN | 4015082598181 |
| PRODUCT LENGTH/DEPTH | 42 mm |
| PRODUCT HEIGHT | 90 mm |
| PRODUCT WIDTH | 30 mm |
| PRODUCT WEIGHT | 0.099 kg |
| COMPLIANCES | UL/CSA IEC RoHS conform |
| CERTIFICATIONS | UL (Category Control Number DIHS) UL489 UL (File No. E140305) CSA-C22.2 No. 5-09 CSA certified CSA (Class No. 1437-01) CSA (File No. 22086) CE marking UL listed IEC60947 |
| GLOBAL CATALOG | 259818 |

Product specifications

| | |
|---|--|
| USED WITH | NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4) |
| VOLTAGE RATING | 0.7 - 1.1 x Us |
| 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. |

Resources

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| BROCHURES | eaton-digital-nzm-brochure-br013003en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf |
| CATALOGS | eaton-digital-nzm-catalog-ca013003en-en-us.pdf |
| DRAWINGS | eaton-circuit-breaker-undervoltage-nzm-mccb-3d-drawing-002.eps |
| ECAD MODEL | ETN.NZM2_3-XAHIV208-250AC_DC |
| INSTALLATION INSTRUCTIONS | eaton-circuit-breaker-voltage-release-nzm2-3-il012141zu.pdf |
| INSTALLATION VIDEOS | Introduction of the new digital circuit breaker NZM The new digital NZM Range |
| TECHNICAL DATA SHEETS | eaton-nzm-technical-information-sheet |

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| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 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. |
| ELECTRIC CONNECTION TYPE | Screw connection |
| FITTED WITH: | Early-make auxiliary contact |
| FRAME | NZM2/3 |
| FREQUENCY RATING | 50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release) |
| MINIMUM COMMAND TIME - MAX | 15 ms |
| MINIMUM COMMAND TIME - MIN | 10 ms |
| NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) | 1 |
| REACTION TIME | 20 ms |
| PICK-UP POWER CONSUMPTION (SHUNT RELEASE) | 2.5 VA/W |
| RATED CONTROL SUPPLY VOLTAGE | 208 - 250 V AC/DC |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX | 250 V |
| RATED CONTROL SUPPLY | 208 V |

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|---|--|
| VOLTAGE (US) AT AC, 50 HZ - MIN | |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX | 250 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN | 208 V |
| SUITABLE FOR | Off-load switch |
| CONNECTION TYPE | With bolt connection |
| VOLTAGE TYPE | AC/DC |
| TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR) | 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm ² - 2.5 mm ² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule |
| TYPE | <ul style="list-style-type: none"> • Accessory • Shunt release |
| SPECIAL FEATURES | <ul style="list-style-type: none"> • Cannot be used in conjunction with NZM...-XR... remote operator. • If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. • Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. • Shunt releases cannot be installed |

simultaneously
with NZM...-XHIV...
early-make
auxiliary contact or
NZM...-XU...
undervoltage
release.

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MAX**

250 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MIN**

208 V

**VOLTAGE RATING AT AC
(X US) - MAX**

1.1

**VOLTAGE RATING AT AC
(X US) - MIN**

.7

**NUMBER OF CONTACTS
(NORMALLY CLOSED
CONTACTS)**

0

**NUMBER OF CONTACTS
(CHANGE-OVER
CONTACTS)**

0

**UNDELAYED SHORT-
CIRCUIT RELEASE - MIN**

0 A

**UNDELAYED SHORT-
CIRCUIT RELEASE - MAX**

0 A

TIME ON DUTY - MAX

∞

**RATED CONTROL
VOLTAGE (RELAY
CONTACTS)**

250 V DC
208 V AC
208 V DC
250 V AC

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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