

# Specifications



## Eaton 183057

Eaton xEffect - XNH circuit protection. NH fuse-switch 3p flange connection M10 max. 240 mm<sup>2</sup>, mounting plate, NH2

### General specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEffect XNH device for mounting plate |
| <b>CATALOG NUMBER</b>       | 183057                                      |
| <b>MODEL CODE</b>           | XNH2-A400                                   |
| <b>EAN</b>                  | 4015081779840                               |
| <b>PRODUCT LENGTH/DEPTH</b> | 306 mm                                      |
| <b>PRODUCT HEIGHT</b>       | 134 mm                                      |
| <b>PRODUCT WIDTH</b>        | 210 mm                                      |
| <b>PRODUCT WEIGHT</b>       | 3.205 kg                                    |
| <b>COMPLIANCES</b>          | RoHS conform                                |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947-3                              |



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## Additional information

|                 |                                   |
|-----------------|-----------------------------------|
| <b>FEATURES</b> | Standard sealable<br>Halogen free |
|-----------------|-----------------------------------|

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|----------------------------------------------|----------------------------|
| <b>FLAMMABILITY<br/>CHARACTERISTICS (UL)</b> | Self-extinguishing (UL 94) |
|----------------------------------------------|----------------------------|

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIAL FEATURES</b> | <ul style="list-style-type: none"><li>• Current paths of electrolytic copper, silver-plated</li><li>• Permanent operation (rated operating mode)</li></ul> |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| <b>SUITABLE FOR</b> | Ground mounting<br>Front mounting |
|---------------------|-----------------------------------|

## Delivery programme

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| <b>ACTUATOR TYPE</b> | Cover grip |
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|              |      |
|--------------|------|
| <b>COLOR</b> | Gray |
|--------------|------|

|                        |            |
|------------------------|------------|
| <b>NUMBER OF POLES</b> | Three-pole |
|------------------------|------------|

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|-------------|--------------|
| <b>TYPE</b> | Basic device |
|-------------|--------------|

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to 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>                                           | Is the panel builder's responsibility.                                                                                           |
| <b>10.5 PROTECTION</b>                                                                  | Does not apply, since the                                                                                                        |

## Design verification to IEC/EN 61439 - technical data

|                                                                      |                                           |
|----------------------------------------------------------------------|-------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE DETAILS</b>                         | Ambient temperature range: -25 °C - 70 °C |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>                 | 22 W                                      |
| <b>HEAT DEFLECTION TEMPERATURE</b>                                   | 125 °C                                    |
| <b>HEAT DISSIPATION AT 80% WITHOUT FUSES</b>                         | 17.8 W                                    |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>                  | 7.3 W                                     |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 400 A                                     |
| <b>TOTAL HEAT DISSIPATION WITHOUT FUSES AT ITH</b>                   | 28 W                                      |

|                                                                 |                                                                    |
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| <b>AGAINST ELECTRIC SHOCK</b>                                   | 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>                 | $U_i = 800 \text{ V AC}$                                           |
| <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.                             |

## Technical data - electrical

|                                                   |                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>CREEPAGE RESISTANCE</b>                        | CTI 600                                                                                                          |
| <b>DIRECTION OF INCOMING SUPPLY</b>               | As required                                                                                                      |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b> | Screw connection                                                                                                 |
| <b>FREQUENCY RATING</b>                           | 40 Hz - 60 Hz                                                                                                    |
| <b>FREQUENCY RATING OF CONTACTS</b>               | 40 Hz - 60 Hz                                                                                                    |
| <b>LIFESPAN, ELECTRICAL</b>                       | 200 operations                                                                                                   |
| <b>OPERATING ALTITUDE WITHOUT DERATING - MAX</b>  | 2000 mm                                                                                                          |
| <b>OVERVOLTAGE CATEGORY</b>                       | III                                                                                                              |
| <b>PERMITTED POWER LOSS PER FUSE LINK - MAX</b>   | 34 W                                                                                                             |
| <b>POLLUTION DEGREE</b>                           | 3                                                                                                                |
| <b>POWER RATING AT AC-23, 400 V</b>               | 0 kW                                                                                                             |
| <b>RATED CONDITIONAL SHORT-CIRCUIT RATING</b>     | 120 kA (500 V)<br>100 kA (690 V)                                                                                 |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>     | 8 kV                                                                                                             |
| <b>RATED INSULATION VOLTAGE (UI)</b>              | 800 VAC                                                                                                          |
| <b>RATED OPERATING VOLTAGE (UE) AT AC - MAX</b>   | 690 V                                                                                                            |
| <b>RATED OPERATION CURRENT (IE)</b>               | 400 A                                                                                                            |
| <b>RATED OPERATIONAL CURRENT</b>                  | 400 A (AC-23B)<br>400 A (AC-21B)<br>400 A (AC-22B)<br>400 A (DC-22B)                                             |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>   | 3 kA                                                                                                             |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>           | 400 A                                                                                                            |
| <b>VOLTAGE RATING AT AC</b>                       | <ul style="list-style-type: none"> <li>400 V (AC-23B)</li> <li>500 V (AC-22B)</li> <li>690 V (AC-21B)</li> </ul> |
| <b>VOLTAGE RATING AT DC</b>                       | 440 V (DC-22B)                                                                                                   |
| <b>VOLTAGE TEST</b>                               | Yes, sliding inspection windows                                                                                  |

## Technical data - mechanical

|                                           |                                                                                                                                                                                                                                                                               |
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| <b>ACTIVATION TYPE</b>                    | Dependent manual activation                                                                                                                                                                                                                                                   |
| <b>ACTUATOR POSITION</b>                  | Front side                                                                                                                                                                                                                                                                    |
| <b>CABLE ENTRY TYPE</b>                   | Other                                                                                                                                                                                                                                                                         |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>  | Other                                                                                                                                                                                                                                                                         |
| <b>LIFESPAN, MECHANICAL</b>               | 800 operations                                                                                                                                                                                                                                                                |
| <b>LOCKING FACILITY</b>                   | Yes, optional                                                                                                                                                                                                                                                                 |
| <b>MATERIAL</b>                           | Polyamide                                                                                                                                                                                                                                                                     |
| <b>MOUNTING METHOD</b>                    | Mounting plate<br>DIN rail                                                                                                                                                                                                                                                    |
| <b>MOUNTING POSITION</b>                  | Vertical or horizontal                                                                                                                                                                                                                                                        |
| <b>SIZE</b>                               | NH2 fuse                                                                                                                                                                                                                                                                      |
| <b>SUITABLE FOR FUSES</b>                 | NH2                                                                                                                                                                                                                                                                           |
| <b>TERMINAL CAPACITY (COPPER BAND)</b>    | 10 mm x 16 mm x 0.8 mm (10x) at box terminal                                                                                                                                                                                                                                  |
| <b>TERMINAL CAPACITY (COPPER BUSBAR)</b>  | 40 mm x 10 mm<br>Bolt diameter at flange connection: M10<br>Max. 48 mm cable lug width at flange connection                                                                                                                                                                   |
| <b>TERMINAL CAPACITY (COPPER STRIP)</b>   | 16 mm x 0.8 mm (6x) - 32 mm x 1 mm (10x) at box terminal                                                                                                                                                                                                                      |
| <b>TERMINAL CAPACITY (STRANDED CABLE)</b> | 120 mm <sup>2</sup> - 240 mm <sup>2</sup> at clamp-type terminal<br>95 mm <sup>2</sup> - 300 mm <sup>2</sup> (1x) at box terminal<br>120 mm <sup>2</sup> - 150 mm <sup>2</sup> (2x) at double clamp-type terminal<br>25 mm <sup>2</sup> - 240 mm <sup>2</sup> at box terminal |
| <b>CONNECTION TYPE</b>                    | Flat connection                                                                                                                                                                                                                                                               |
| <b>DEGREE OF PROTECTION</b>               | IP2XC (contact protection, XNH installed)<br>IP20 (operating status, XNH installed)<br>IP10 (handle cover open, XNH installed)                                                                                                                                                |

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| <b>CONDITIONED RATED<br/>SHORT-CIRCUIT CURRENT<br/>IQ</b> | 120 kA |
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|-------------------------------------------------------------|--------|
| <b>RATED CONDITIONAL<br/>SHORT-CIRCUIT CURRENT<br/>(IQ)</b> | 120 kA |
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## Resources

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|-----------|------------------------------------------------------------------------------------------|
| BROCHURES | <a href="#">eaton-xeffect-xnh-fuse-switch-disconnector-brochure-br019002en-en-us.pdf</a> |
|-----------|------------------------------------------------------------------------------------------|

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|------------|-------------------------------------------------------------------------------|
| CATALOGUES | <a href="#">eaton-panel-building-accessories-catalog-ca008008en-en-us.pdf</a> |
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| CERTIFICATION REPORTS | <a href="#">eaton-xeffect-xnh-fuse-switch-disconnector-declaration-of-conformity-en-us.pdf</a> |
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| DECLARATIONS OF CONFORMITY | <a href="#">eaton-xnh-device-for-mounting-plate-declaration-of-conformity-eu250264en.pdf</a> |
|----------------------------|----------------------------------------------------------------------------------------------|

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| DRAWINGS | <a href="#">eaton-circuit-breaker-xeffect-xeffect-xnh-circuit-protection-dimensions-004.eps</a> |
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| ECAD MODEL | <a href="#">ETN.XNH2-A400.edz</a> |
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|---------------------------|---------------------------------------------------------------------------|
| INSTALLATION INSTRUCTIONS | <a href="#">eaton-xeffect-xnh-fuse-switch-disconnector-il0131110z.pdf</a> |
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|------------|-----------------------------------------------------------------------------------------------------------------------------|
| MCAD MODEL | <a href="#">eaton-XNH2-A400-3d-model.stp</a><br><a href="#">eaton-fuse-switch-disconnectors-mcad-drawings-xnh2-a400.dwg</a> |
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|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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