

NH fuse-switch 3p flange connection M10 max. 240 mm²; mounting plate; NH2



Part no. XNH2-A400

183057

**EL Number
(Norway)**

1624032

| General specifications | | |
|--|--|--|
| Product name | | Eaton xEffect XNH device for mounting plate |
| Part no. | | XNH2-A400 |
| EAN | | 4015081779840 |
| Product Length/Depth | | 306 millimetre |
| Product height | | 134 millimetre |
| Product width | | 210 millimetre |
| Product weight | | 3.205 kilogram |
| Compliances | | RoHS conform |
| Certifications | | IEC/EN 60947-3 |
| Product Tradename | | xEffect |
| Product Type | | XNH device for mounting plate |
| Product Sub Type | | None |
| Delivery program | | |
| Type | | Basic device |
| Color | | Gray |
| Number of poles | | Three-pole |
| Actuator type | | Cover grip |
| Technical Data - Electrical | | |
| Voltage test | | Yes, sliding inspection windows |
| Voltage rating at AC | | 400 V (AC-23B) 500 V (AC-22B) 690 V (AC-21B) |
| Voltage rating at DC | | 440 V (DC-22B) |
| Rated operating voltage (Ue) at AC - max | | 690 V |
| Rated insulation voltage (Ui) | | 800 V AC |
| Rated impulse withstand voltage (Uimp) | | 8 kV |
| Rated uninterrupted current (Iu) | | 400 A |
| Rated conditional short-circuit current (Iq) | | 120 kA |
| Rated operation current (Ie) | | 400 A |
| Rated operational current | | 400 A (AC-23B) 400 A (AC-21B) 400 A (AC-22B) 400 A (DC-22B) |
| Rated short-time withstand current (Icw) | | 3 kA |
| Rated conditional short-circuit rating | | 120 kA (500 V) 100 kA (690 V) |
| Conditioned rated short-circuit current Iq | | 120 kA |
| Frequency rating | | 40 Hz - 60 Hz |
| Frequency rating of contacts | | 40 Hz - 60 Hz |
| Creepage resistance | | CTI 600 |
| Power rating at AC-23, 400 V | | 0 kW |
| Rated operation power at AC-23, 400 V | | 0 kW |
| Permitted power loss per fuse link - max | | 34 W |
| Electrical connection type of main circuit | | Screw connection |
| Operating altitude without derating - max | | 2000 mm |
| Overvoltage category | | III |
| Pollution degree | | 3 |
| Direction of incoming supply | | As required |

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| Lifespan, electrical | | 200 operations |
| Technical Data - Mechanical | | |
| Activation type | | Dependent manual activation |
| Actuator position | | Front side |
| Size | | NH2 fuse |
| Mounting method | | Mounting plate DIN rail |
| Mounting position | | Vertical or horizontal |
| Material | | Polyamide |
| Degree of protection | | IP2XC (contact protection, XNH installed) IP20 (operating status, XNH installed) IP10 (handle cover open, XNH installed) |
| Degree of protection (front side) | | Other |
| Connection type | | Flat connection |
| Terminal capacity (copper band) | | 10 mm x 16 mm x 0.8 mm (10x) at box terminal |
| Terminal capacity (copper busbar) | | 40 mm x 10 mm Bolt diameter at flange connection: M10 Max. 48 mm cable lug width at flange connection |
| Terminal capacity (copper strip) | | 16 mm x 0.8 mm (6x) - 32 mm x 1 mm (10x) at box terminal |
| Terminal capacity (stranded cable) | | 120 mm ² - 240 mm ² at clamp-type terminal 95 mm ² - 300 mm ² (1x) at box terminal 120 mm ² - 150 mm ² (2x) at double clamp-type terminal 25 mm ² - 240 mm ² at box terminal |
| Cable entry type | | Other |
| Locking facility | | Yes, optional |
| Suitable for fuses | | NH2 |
| Lifespan, mechanical | | 800 operations |
| Design verification as per IEC/EN 61439 - technical data | | |
| Rated operational current for specified heat dissipation (In) | | 400 A |
| Equipment heat dissipation, current-dependent | | 22 W |
| Heat dissipation per pole, current-dependent | | 7.3 W |
| Heat dissipation at 80% without fuses | | 17.8 W |
| Ambient operating temperature details | | Ambient temperature range: -25 °C - 55 °C |
| Heat deflection temperature | | 125 °C |
| Design verification as per IEC/EN 61439 | | |
| 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. |
| 10.4 Clearances and creepage distances | | Is the panel builder's responsibility. |
| 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 | | Ui = 800 V AC |
| 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. |
| 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. |

| Additional information | | |
|-----------------------------------|--|---|
| Features | | Standard sealable Halogen free |
| Flammability characteristics (UL) | | Self-extinguishing (UL 94) |
| Special features | | Current paths of electrolytic copper, silver-plated Permanent operation (rated operating mode) |
| Suitable for | | Ground mounting |

Technical data ETIM 9.0

| Low-voltage industrial components (EG000017) / Fuse switch disconnecter (EC001040) | | |
|---|----|------------------|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnecter (ecl@ss13-27-37-14-01 [AKFD58018]) | | |
| Version as main switch | | No |
| Version as safety switch | | No |
| Max. rated operation voltage Ue AC | V | 690 |
| Rated permanent current Iu | A | 400 |
| Rated operation power at AC-23, 400 V | kW | 0 |
| Conditioned rated short-circuit current Iq | kA | 120 |
| Rated short-time withstand current Icw | kA | 3 |
| Suitable for fuses | | NH2 |
| Number of poles | | 3 |
| With error protection | | No |
| Type of electrical connection of main circuit | | Screw connection |
| Cable entry | | Other |
| Equipped with connectors | | No |
| Suitable for floor mounting | | Yes |
| Suitable for front mounting | | No |
| Suitable for busbar mounting | | No |
| Type of control element | | Cover grip |
| Position control element | | Front side |
| Motor drive optional | | No |
| Motor drive integrated | | No |
| Version as emergency stop installation | | No |
| Degree of protection (IP), front side | | Other |