DATASHEET - XNH00-FCE-S160-BT2



NH fuse-switch 3p with lowered box terminal BT2 1,5 - 95 mm²; busbar 60 mm; electronic fuse monitoring; NH000 & NH00



Powering Business Worldwide

XNH00-FCE-S160-BT2 Part no.

183041 Catalog No.

EL-Nummer 1624016

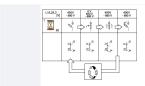
(Norway)

Technical data Electrical

| Standards | | | IEC/EN 60947-3 |
|---|------------------|------|----------------------------|
| Rated operational voltage | U _e | V AC | 690 |
| Rated operational voltage | Ue | V DC | 440 |
| Rated operational current | I _e | Α | 160 |
| Rated frequency | f | Hz | 40 - 60 |
| Rated insulation voltage | Ui | V AC | 800 |
| Total heat dissipation at I _{th} (without fuses) | P_{v} | W | 14 |
| Heat dissipation at 80% (without fuses) | P_{v} | W | 9 |
| Rated impulse withstand voltage | U _{imp} | kV | 8 |
| Utilization category AC-23B | | | |
| Rated operating voltage | U _e | V AC | 400 |
| Rated operating current | I _e | Α | 160 |
| Utilization category AC22B | | | |
| Rated operating voltage | U _e | V AC | 500 |
| Rated operating current | I _e | Α | 160 |
| Utilization category AC-21B | | | |
| Rated operating voltage | U _e | V AC | 690 |
| Rated operating current | I _e | Α | 160 |
| Utilization category DC-22B | | | |
| Rated operating voltage | U _e | V DC | 250 |
| Rated operating current | I _e | Α | 160 |
| Utilization category DC21B | | | |
| Rated operating voltage | U _e | V DC | 440 |
| Rated operating current | le | Α | 160 |
| Rated conditional short-circuit current | | kA | 120 (500 V) 100 (690 V) |
| Rated short-time withstand current | I _{cw} | kA | 7 |
| Max. fuse | | | |
| Size according to DIN VDE 0636-2 | | | 000 / 00 |
| Max. permitted power loss per fuse link | P_{v} | W | 12 |
| Lifespan, electrical | Operations | | 300 |
| | | | |

| Mechanical | | |
|---|----|---|
| Front degree of protection (XNH installed) | | IP20 (Operating status) IP2XC (Contact protection) IP10 (Handle cover open) |
| Ambient temperature | °C | -25 - +55 |
| Rated operating mode | | Permanent operation |
| Activation | | Dependent manual activation |
| Mounting position | | Vertical, horizontal |
| Altitude | m | Max. 2000 |
| Overvoltage category/pollution degree | | III/3 |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) | | Yes |
| Direction of incoming supply | | as required (FLEX System) |
| Lockable | | Yes, optional |

| Sealable | | | Vos Standard |
|-------------------------------------|-----------------------|-----------------|---------------------------------|
| | | | Yes, Standard |
| Material characteristics | | | 24 |
| Material | | | Polyamide |
| Colour | | | Grey |
| Flammability characteristics | | | Self-extinguishing as per UL 94 |
| Halogen-free | | | Yes |
| Voltage test | | | Yes, sliding inspection windows |
| Lifespan, mechanical | Operations | | 1400 |
| Track resistance | | | CTI 600 |
| Heat deflection temperature | | ?C | 125 |
| Terminal capacity | | | |
| Flange connection | | | |
| Bolt diameter | | | M8 |
| Cable lug max. width | | mm | 25 |
| Flat busbar | | mm | 20 x 10 |
| Box terminal | | | |
| Stranded | | mm^2 | 1,5 - 95 Cu |
| Copper strip | Number of | mm | 9 x 9 x 0,8 |
| | segments x width x | | |
| | thickness | | |
| Box terminal | | | |
| Stranded | | mm ² | 1,5 - 50 Cu |
| Copper band | Number of | mm | 6 x 9 x 0,8 |
| | segments x width x | | |
| | thickness | | |
| Clamp-type terminal | | | |
| 1-hole | | mm ² | 10 - 70 Cu/Al |
| Double clamp-type terminal | | | |
| Stranded Stranded | | mm ² | |
| Electronic fuse monitoring | | um' | |
| Power supply | | | Self-supplied |
| Power consumption | | VA | 1.5 |
| Overvoltage category | | | 230/400V : III |
| | | | 230/400V : III 500V : II |
| Frequency range | | | 50 - 60 |
| Input resistance | | k0hm/V | >1 |
| Voltage inputs | | V AC | 400 - 500 (+/-10%) |
| Temperature range | | °C | -5 - +55 |
| Operation indicator | | | 1 LED green |
| Failure indicator | | | 3 LEDs (F1, F2, F3) red |
| Degree of protection | | | IP3X |
| Function test | | | Test button for relay + LEDs |
| EMC (Electromagnetic compatibility) | | | IEC 61000-4-4 |
| | | | IEC 61000-4-4 IEC 61000-4-5 |
| Fuse links | | | NH with live handle straps |
| Outputs | | | |
| Relay output | | | 1 NC |
| | | | 1 NO |
| Max. voltage | | V AC | 250 |
| Max. voltage | | V DC | 24 |
| Max. switching current | | Α | 1 |
| Contact sequence | | | |
| | | | |



Design verification as per IEC/EN 61439

| I _n P _{vid} P _{vid} | A W W | 160 4.7 |
|--|-------------|--|
| P _{vid} | W | 4.7 |
| | | |
| P _{vid} | W | 14 |
| | | 14 |
| | | |
| | | |
| | | Meets the product standard's requirements. |
| | | Meets the product standard's requirements. |
| | | Meets the product standard's requirements. |
| t | | Meets the product standard's requirements. |
| | | Meets the product standard's requirements. |
| | | Does not apply, since the entire switchgear needs to be evaluated. |
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| | | Meets the product standard's requirements. |
| | | Does not apply, since the entire switchgear needs to be evaluated. |
| | | Is the panel builder's responsibility. |
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| | | Is the panel builder's responsibility. |
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| | | |
| | | U _i = 800 V AC |
| | | Is the panel builder's responsibility. |
| | | Is the panel builder's responsibility. |
| | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
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| | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| | | |

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Fuse switch disconnector (EC001040)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnector

| (ecl@ss8.1-27-37-14-01 [AKF058010]) | | |
|---|----|-------------|
| Version as main switch | | No |
| Version as safety switch | | No |
| Max. rated operation voltage Ue AC | V | 500 |
| Rated permanent current lu | А | 160 |
| Rated operation power at AC-23, 400 V | kW | 0 |
| Conditioned rated short-circuit current Iq | kA | 120 |
| Rated short-time withstand current lcw | kA | 7 |
| Suitable for fuses | | NH00 |
| Number of poles | | 3 |
| With error protection | | Yes |
| Type of electrical connection of main circuit | | Frame clamp |
| Suitable for ground mounting | | No |
| Suitable for front mounting 4-hole | | No |

| Suitable for busbar mounting | Yes |
|--|------------|
| 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 |

Dimensions

