



Main

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|---------------------------|----------------------------|
| Range | Compact |
| Product name | Compact NSXm |
| Device short name | NSXm 50F |
| Product or component type | Circuit breaker |
| Device application | Distribution Protection |

Complementary

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|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current | 50 A |
| Poles description | 4P 3d |
| Neutral position | Left |
| Control type | Toggle |
| Mounting mode | By screws (plate) Clip-on (DIN rail) |
| Network type | AC |
| Network frequency | 50/60 Hz |
| Breaking capacity code | F 36 kA 415 V AC |
| [Icu] rated ultimate breaking capacity | Icu 85 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 15 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | 10 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947-2 |
| [Ui] rated insulation voltage | 800 V conforming to IEC 60947-2 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Trip unit technology | Thermal-magnetic |
| Trip unit name | TM-D |
| Trip unit protection functions | LI |
| Trip unit rating | 50 A at 40 °C |
| Protection type | Overload protection (thermal) Short-circuit protection (magnetic) |
| Long time pick-up adjustment range | 0.7...1 x I _n |
| Short-time pick-up adjustment type I _{sd} | Fixed |
| Short-time delay adjustment type | Fixed |
| Magnetic hold current | 480 A |
| Magnetic tripping current | 720 A |
| Suitability for isolation | Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| 9 mm pitches | 12 module |
| Connection pitch | 35 mm with spreaders 27 mm without spreaders |
| Connections - terminals | compression lug/busbar |
| Thread type | M6 |
| Thickness | 8 mm |
| Tightening torque | 5 N.m for 2.5...10 mm ² 9 N.m for 16...95 mm ² |
| Local signalling | Flag (green)presence of auxiliary contacts: |
| Number of slots | 1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX |
| Power wire stripping length | 20 mm |

Environment

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|---------------------------------------|---------------------------------------------------------------------------------|
| Quality labels | CE |
| Standards | EN/IEC 60947 |
| Product certifications | CCC EAC Marine |
| Colour | Grey (RAL 7016) |
| IP degree of protection | Front cover: IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| Pollution degree | 3 conforming to IEC 60947-1 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Operating altitude | 2000 m without derating 5000 m with derating |
| Mechanical durability | 20000 cycles conforming to IEC 947-1 Annex K ed 5.2 In |
| Electrical durability | 10000 cycles conforming to IEC 947-1 Annex F ed 5.2 for I _n at 440 V |
| Height | 137 mm |
| Width | 108 mm |
| Depth | 80 mm |
| Product weight | 1.42 kg |
| Quantity per set | Set of 1 |

Offer Sustainability

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|----------------------------|--------------------------------------------------|
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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