



Main

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| Range | Compact |
| Range of product | NS630b...1600 |
| Product or component type | Circuit breaker |
| Product name | Compact NS |
| Device short name | Compact NS800N |
| Circuit breaker name | Compact NS800N |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4t |
| Neutral position | Left |
| Network type | AC |
| Breaking capacity code | N |
| Suitability for isolation | Yes conforming to IEC 60947-2 |
| Utilisation category | Category B |
| Trip unit name | Micrologic 6.0 |
| Trip unit technology | Electronic |
| Trip unit rating | 800 A (50 °C) |

Complementary

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| Network frequency | 50/60 Hz |
| Control type | Rotary handle Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| [In] rated current | 800 A (50 °C) |
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2 |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Circuit breaker CT rating | 800 A |
| Breaking capacity | 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |

85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
 30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
 40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2

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| [Ics] rated service breaking capacity | Ics 30 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 40 kA 500/525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Auxiliary contact composition | 1 NO/NC |
| Mechanical durability | 10000 cycles |
| Electrical durability | 2000 cycles IEC 60947-2 690 V In AC 50/60 Hz 4000 cycles IEC 60947-2 690 V In/2 AC 50/60 Hz 5000 cycles IEC 60947-2 440 V In AC 50/60 Hz 6000 cycles IEC 60947-2 440 V In/2 AC 50/60 Hz |
| Local signalling | Positive contact indication |
| [Icw] rated short-time withstand current | 19.2 kA |
| Neutral protection setting | Ir |
| Trip unit protection functions | LSIG |
| Protection type | Instantaneous short-circuit protection Short time short-circuit protection Earth fault Overload protection (long time) |
| Long time pick-up adjustment type Ir | Adjustable |
| Long time pick-up adjustment range | 0.4...1 x In |
| Long time delay adjustment type | Adjustable 9 settings |
| [Tr] long-time delay adjustment range | 0.5...24 s 6 x Ir 0.7...16.6 s 7.2 x Ir 12.5...600 s 1.5 x Ir |
| Thermal memory | 20 mn |
| Short-time pick-up adjustment type I _{sd} | Adjustable 9 settings |
| [I _{sd}] short-time pick-up adjustment range | 1.5...10 x Ir |
| Short-time delay adjustment type | Adjustable |
| [T _{sd}] short-time delay adjustment range | 0.1...0.4 s I ² t=on 0...0.4 s I ² t=off |
| Instantaneous pick-up adjustment type I _i | Adjustable |
| Instantaneous pick-up adjustment range | 2...15 x In Off |
| Integral instant protection | 40 kA |
| Ground-fault pick-up adjustment type | Adjustable 9 settings |
| [I _g] ground-fault pick-up adjustment range | 0.3...1 x In for In ≤ 400 A 0.2...1 x In for 400 A < In < 1250 A 500...1200 A for In ≥ 1250 A |
| Ground-fault time delay adjustment type -tg | Adjustable |
| [T _g] ground-fault time delay adjustment range | 0.1...0.4 s I ² t=on 0...0.4 s I ² t=off |
| Zone selective interlocking ZSI | With |
| Height | 327 mm |
| Width | 280 mm |
| Depth | 147 mm |
| Compatibility code | NS800 |

Environment

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|------------------------|---------------|
| Standards | IEC 60947-2 |
| Product certifications | ASTA ASEFA |
| Power losses | 15 W |

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|---------------------------------------|------------------------------|
| IP degree of protection | IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to EN 50102 |
| Pollution degree | 3 conforming to IEC 60947 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -50...85 °C |

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