

Product data sheet

Specifications



Circuit breaker, ComPact NS800H, 70kA/415VAC, Micrologic 6.0 trip unit, 800A, fixed, 4 poles 4d

33901

⚠ Discontinued on: Mar 31, 2021

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Main

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| Range | ComPact |
| Product Name | ComPact NS |
| Range Of Product | ComPact NS630b...1600 |
| Device Short Name | Compact NS800H |
| Product Or Component Type | Circuit breaker |
| Device Application | Distribution |
| Number Of Poles | 4P |
| Protected Poles Description | 4D |
| Neutral Position | Left |
| (In) Rated Current Up To 65 °C | 800 A at 50 °C |
| [Ue] Rated Operational Voltage | 690 V AC 50/60 Hz |
| Network Type | AC |
| Network Frequency | 50/60 Hz |
| Suitability For Isolation | Yes conforming to EN/IEC 60947-2 |
| Utilisation Category | Category B |
| [Icu] Rated Ultimate Short-Circuit Breaking Capacity | 42 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 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 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level | H 70 kA 415 V AC |
| Trip Unit Name | MicroLogic 6.0 |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | LSIG |
| Control Type | Rotary handle Toggle |
| Circuit Breaker Mounting Mode | Fixed |

Complementary

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| [Uij] 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 |

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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| [Ics] Rated Service Short-Circuit Breaking Capacity | 30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Icw] Rated Short-Time Withstand Current | 19.2 kA 1 s conforming to IEC 60947-2 |
| Mechanical Durability | 10000 cycles |
| Electrical Durability | 2000 cycles at 690 V In 4000 cycles at 690 V In/2 5000 cycles at 440 V In 6000 cycles at 440 V In/2 |
| Power Losses | 15 W |
| Mounting Support | Backplate |
| Upside Connection | Front |
| Downside Connection | Front |
| Connection Pitch | 70 mm |
| Protection Type | L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection |
| Trip Unit Rating | 800 A at 50 °C |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable 9 settings |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 0.4...1 x In |
| Long-Time Protection Delay Adjustment Type Tr | Adjustable 9 settings |
| [Tr] Long-Time Protection Delay Adjustment Range | 12.5...600 s at 1.5 x Ir 0.5...24 s at 6 x Ir 0.7...16.6 s at 7.2 x Ir |
| Thermal Memory | 20 mn |
| Short-Time Protection Pick-Up Adjustment Type Isd | Adjustable 9 settings |
| [Isd] Short-Time Protection Pick-Up Adjustment Range | 1.5...10 x Ir |
| Short-Time Protection Delay Adjustment Type Tsd | Adjustable |
| [Tsd] Short-Time Protection Delay Adjustment Range | 0.1...0.4 s I ² t=on 0...0.4 s I ² t=off |
| Instantaneous Protection Pick-Up Adjustment Type Ii | Adjustable |
| [Ii] Instantaneous Protection Pick-Up Adjustment Range | 2...15 x In Off |
| Ground-Fault Protection Pick-Up Adjustment Type Ig | Adjustable 9 settings |
| [Ig] Ground-Fault Protection 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 Protection Time Delay Adjustment Type Tg | Adjustable |
| [Tg] Ground-Fault Protection Time Delay Adjustment Range | 0.1...0.4 s I ² t=on 0...0.4 s I ² t=off |
| Earth-Leakage Protection | Without |
| Neutral Protection Settings | No protection (3D) 0.5 x Ir (3D + N/2) 1 x Ir (4D) |
| Zone Selective Interlocking Zsi | Without |

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| Auxiliary Contact Composition | 1 NO/NC |
| Local Signalling | 4 LEDs (red) for fault indication 1 LED (yellow) for overload |
| Width (W) | 280 mm |
| Height (H) | 327 mm |
| Depth (D) | 147 mm |
| Net Weight | 18 kg |

Environment

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| Standards | EN/IEC 60947-2 |
| Product Certifications | ASTA ASEFA |
| Pollution Degree | 3 conforming to IEC 60947 |
| Ip Degree Of Protection | IP40 conforming to IEC 60529 |
| Ik Degree Of Protection | IK07 conforming to EN 50102 |
| Ambient Air Temperature For Operation | -25...70 °C |
| Ambient Air Temperature For Storage | -50...85 °C |
| Relative Humidity | 0...95 % |
| Operating Altitude | 0...2000 m without derating 2000 m...5000 m with derating |

Contractual warranty

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| Warranty | 18 months |
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