# 33238

circuit breaker ComPact NS800H, 70 kA at 415 VAC, Micrologic 2.0 A trip unit, 800 A, fixed,3 poles 3d

Green Premium™



## Main

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|---|---|
| Range | Compact |
| Product name | Compact NS |
| Range of product | NS630b...1600 |
| Device short name | Compact NS800H |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3d |
| (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<br>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>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 2.0 A |
| Trip unit technology | Electronic |
| Trip unit protection functions | LI |
| Control type | Rotary handle<br>Toggle |
| Circuit breaker mounting mode | Fixed |

## Complementary

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|---|---|
| [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 |
| [Ics] rated service short-circuit breaking capacity | 30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>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<br>4000 cycles at 690 V In/2<br>5000 cycles at 440 V In<br>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)<br>I : for instantaneous short-circuit 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<br>0.5…24 s at 6 x Ir<br>0.7…16.6 s at 7.2 x Ir |
| Thermal memory | 20 mn |
| Instantaneous protection pick-up adjustment type Ii | Adjustable |
| [Ii] instantaneous protection pick-up adjustment range | 1.5...10 x Ir |
| Earth-leakage protection | Without |
| Zone selective interlocking ZSI | With |
| Auxiliary contact composition | 1 NO/NC |
| Local signalling | 4 LEDs (red) for fault indication<br>1 LED (yellow) for overload |
| Display type | LCD display |
| Type of measurement | Ammeter |
| Width (W) | 210 mm |
| Height (H) | 327 mm |
| Depth (D) | 147 mm |
| Net weight | 14 kg |

## Environment

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|---|---|
| Standards | EN/IEC 60947-2 |
| Product certifications | ASTA<br>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 |

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|---|---|
| Ambient air temperature for storage | -40…85 °C |
| Relative humidity | 0…95 % |
| Operating altitude | 0...2000 m without derating<br>2000 m...5000 m with derating |

## Packing Units

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| Package 1 Weight | 11.890 kg |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant<br>EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| 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 |