



### Main

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|--|--|
| Range                                  | Compact  |
| Range of product                       | Compact NS100...630  |
| Product or component type              | Circuit breaker  |
| Product name                           | Compact NS   |
| Device short name                      | Compact NS100H   |
| Circuit breaker name                   | Compact NS100H   |
| Device application                     | Distribution   |
| Poles description                      | 4P   |
| Protected poles description            | 3t   |
| Neutral position                       | Left   |
| Network type                           | DC<br>AC   |
| Network frequency                      | 50/60 Hz   |
| [In] rated current                     | 100 A 65 °C<br>100 A 40 °C   |
| [Ui] rated insulation voltage          | 750 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<br>750 V DC conforming to IEC 60947-2  |
| Breaking capacity code                 | H  |
| Breaking capacity                      | 50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 525 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>100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>35 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>65 kA at 480 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508 |
| [Ics] rated service breaking capacity  | Ics 100 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 25 kA 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 5 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 65 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 70 kA 380/415 V AC 50/60 Hz 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

|                           |  |
|---------------------------|--|
| Suitability for isolation | Yes conforming to IEC 60947-2  |
| Utilisation category      | Category A   |
| Trip unit name            | TM-D   |
| Trip unit technology      | Thermal-magnetic   |
| Trip unit rating          | 40 A ( 40 °C )   |
| Protection type           | Overload protection (thermal)<br>Short-circuit protection (magnetic) |
| Pollution degree          | 3 conforming to IEC 60947  |

### Complementary

|  |  |
|--|--|
| Control type                             | Toggle   |
| Mounting mode                            | Fixed  |
| Mounting support                         | Backplate  |
| Upside connection                        | Front  |
| Downside connection                      | Front  |
| Mechanical durability                    | 50000 cycles   |
| Electrical durability                    | 30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>50000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch                         | 35 mm  |
| Local signalling                         | Positive contact indication  |
| Neutral protection setting               | No protection  |
| Long time pick-up adjustment type Ir     | Adjustable   |
| Long time pick-up adjustment range       | 0.8...1 x In   |
| Instantaneous pick-up adjustment type li | Fixed  |
| Instantaneous pick-up adjustment range   | 500 A  |
| Height                                   | 161 mm   |
| Width                                    | 140 mm   |
| Depth                                    | 86 mm  |
| Compatibility code                       | NS100  |

### Environment

|                                       |                               |
|---------------------------------------|-------------------------------|
| Standards                             | IEC 60947-2                   |
| Product certifications                | ASTA<br>KEMA<br>ASEFA<br>LCIE |
| 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                   |

### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Product Life Status

END-OF-SALE NOTICE

29683