



### Main

|   |  |
|---|--|
| Range   | Compact  |
| Range of product                                    | Compact NS100...630  |
| Product or component type                           | Circuit breaker  |
| Product name  | Compact NS   |
| Device short name                                   | Compact NS100N   |
| Circuit breaker name                                | Compact NS100N   |
| Device application                                  | Distribution   |
| Poles description                                   | 4P   |
| Protected poles description                         | 3t<br>3t + N/2<br>4t   |
| 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   |
| [U <sub>i</sub> ] rated insulation voltage          | 750 V AC 50/60 Hz conforming to IEC 60947-2  |
| [U <sub>imp</sub> ] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2   |
| [U <sub>e</sub> ] 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                              | N  |
| Breaking capacity                                   | 8 kA I <sub>cu</sub> at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA I <sub>cu</sub> at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA I <sub>cu</sub> at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA I <sub>cu</sub> at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA I <sub>cu</sub> at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA I <sub>cu</sub> 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>25 kA at 480 V AC 50/60 Hz conforming to UL 508<br>35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>8 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508 |
| [I <sub>cs</sub> ] rated service breaking capacity  | I <sub>cs</sub> 11 kA 525 V AC 50/60 Hz conforming to IEC 60947-2<br>I <sub>cs</sub> 35 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>I <sub>cs</sub> 36 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

Ics 4 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2  
 Ics 85 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2  
 Ics 12.5 kA 500 V AC 50/60 Hz conforming to IEC 60947-2

|                           |  |
|---------------------------|--|
| Suitability for isolation | Yes conforming to IEC 60947-2  |
| Utilisation category      | Category A   |
| Trip unit name            | STRAB  |
| Trip unit technology      | Electronic   |
| Trip unit rating          | 100 A ( 20 °C )<br>90 A ( 70 °C )<br>95 A ( 60 °C )  |
| Protection type           | Overload protection (long time)<br>Instantaneous short-circuit protection<br>Short time short-circuit protection |
| 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                             | 1 x Ir<br>No protection<br>0.5 x Ir  |
| Long time pick-up adjustment type Ir                   | Adjustable 48 settings   |
| Long time pick-up adjustment range                     | 0.4...1 x In   |
| Long time delay adjustment type                        | Fixed  |
| [Tr] long-time delay adjustment range                  | 90...180 s 1.5 x Ir<br>3.2...5 s 7.2 x Ir<br>5...7.5 s 6 x Ir  |
| Short-time pick-up adjustment type I <sub>sd</sub>     | Adjustable 8 settings  |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 2...10 x Ir  |
| Short-time delay adjustment type                       | Fixed  |
| [T <sub>sd</sub> ] short-time delay adjustment range   | 0.04...0.06 s  |
| Instantaneous pick-up adjustment type I <sub>i</sub>   | Fixed  |
| Instantaneous pick-up adjustment range                 | >= 11 x In   |
| Display type   | LED  |
| Height   | 161 mm   |
| Width  | 140 mm   |
| Depth  | 86 mm  |
| Compatibility code                                     | NS100  |

## Environment

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

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