



### 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                      | Vigicompact NS100N   |
| Circuit breaker name                   | Vigicompact NS100N   |
| Device application                     | Distribution   |
| Poles description                      | 4P   |
| Protected poles description            | 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   |
| [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         | 250 V DC conforming to IEC 60947-2<br>277 V AC 50/60 Hz conforming to IEC 60947-2  |
| Breaking capacity code                 | N  |
| Breaking capacity                      | 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 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>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 |
| [Ics] rated service breaking capacity  | Ics 10 kA 600 V AC 50/60 Hz conforming to UL 508<br>Ics 22 kA 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 25 kA 480 V AC 50/60 Hz conforming to UL 508<br>Ics 25 kA 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 35 kA 440 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 35 kA 480 V AC 50/60 Hz conforming to NEMA AB1 HIC  
 Ics 36 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2  
 Ics 8 kA 600 V AC 50/60 Hz conforming to NEMA AB1 HIC  
 Ics 8 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 85 kA 240 V AC 50/60 Hz conforming to NEMA AB1 HIC  
 Ics 85 kA 240 V AC 50/60 Hz conforming to UL 508

|                                  |  |
|----------------------------------|--|
| 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) |
| Earth-leakage add-on module name | MH   |
| Earth-leakage protection         | With   |
| 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   |
| Long time pick-up adjustment type Ir               | Fixed  |
| Long time pick-up adjustment range                 | 0.8...1 x In   |
| Long time delay adjustment type                    | Fixed  |
| Instantaneous pick-up adjustment type Ii           | Fixed  |
| Instantaneous pick-up adjustment range             | 190 A  |
| Earth-leakage protection class                     | Class A  |
| Residual earth-leakage sensitivity adjustment type | Adjustable   |
| [IΔn] residual earth-leakage sensitive adjustment  | 0.3 A<br>3 A<br>10 A<br>1 A<br>0.03 A  |
| Residual earth-leakage time delay adjustment type  | Adjustable   |
| Height   | 236 mm   |
| Width  | 105 mm   |
| Depth  | 86 mm  |
| Compatibility code                                 | NS100  |

## Environment

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

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