Product data sheet

Characteristics

33478

Circuit breaker Compact NS1250N - Micrologic 2.0
- 1250 A - 3 poles 3t

Main

Range
Compact

Range of product
NS630b...1600

Product or component type
Circuit breaker

Device short name
Compact NS1250N

Device application
Distribution

Poles description
3P

Protected poles description
3t

Network type
AC

Breaking capacity code
N

Suitability for isolation
Yes conforming to IEC 60947-2

Utilisation category
Category B

Trip unit name
Micrologic 2.0

Trip unit technology
Electronic

Trip unit rating
1250 A ( 50 °C )

Complementary

Network frequency
50/60 Hz

Control type
Rotary handle
Toggle

Mounting mode
Fixed

Mounting support
Backplate

Upside connection
Front

Downside connection
Front

(In) rated current up to 65 °C
1250 A ( 50 °C )

[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

[Ue] rated operational voltage
690 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.
<table>
<thead>
<tr>
<th><strong>Circuit breaker CT rating</strong></th>
<th>1250 A</th>
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</thead>
</table>
| **Breaking capacity**        | 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2  
50 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2  
50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2  
30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2  
40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| **[Ics] rated service breaking capacity** | Ics 30 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2  
Ics 40 kA 500/525 V AC 50/60 Hz conforming to IEC 60947-2  
Ics 50 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2  
Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2  
Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Auxiliary contact composition** | 1 NO/NC |
| **Mechanical durability**     | 10000 cycles |
| **Electrical durability**     | 2000 cycles IEC 60947-2 690 V In AC 50/60 Hz  
3000 cycles IEC 60947-2 690 V In/2 AC 50/60 Hz  
4000 cycles IEC 60947-2 440 V In AC 50/60 Hz  
5000 cycles IEC 60947-2 440 V In/2 AC 50/60 Hz |
| **Local signalling**          | Positive contact indication |
| **[Icw] rated short-time withstand current** | 19.2 kA |
| **Trip unit protection functions** | LI |
| **Protection type**           | Instantaneous short-circuit protection  
Overload protection (long time) |
| **Long time pick-up adjustment type Ir** | Adjustable |
| **Long time pick-up adjustment range** | 0.4...1 x In |
| **Long time delay adjustment type** | Adjustable 9 settings |
| **[Tr] long-time delay adjustment range** | 0.5...24 s 6 x Ir  
0.7...16.6 s 7.2 x Ir  
12.5...600 s 1.5 x Ir |
| **Thermal memory**            | 20 mn |
| **Instantaneous pick-up adjustment type li** | Adjustable |
| **Instantaneous pick-up adjustment range** | 1.5...10 x Ir |
| **Integrated instantaneous protection** | 40 kA |
| **Height**                    | 327 mm |
| **Width**                     | 210 mm |
| **Depth**                     | 147 mm |

**Environment**

<table>
<thead>
<tr>
<th>Standards</th>
<th>IEC 60947-2</th>
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</table>
| Product certifications        | ASEFA  
ASTA |
| Power losses                  | 44 W        |
| IP degree of protection       | IP40 conforming to IEC 60529 |
| IK degree of protection       | IK07 conforming to EN 50102 |
| Pollution degree              | 3 conforming to IEC 60947 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -50...85 °C |

**Offer Sustainability**

| Sustainable offer status      | Green Premium product |
| RoHS (date code: YYWW)        | Compliant - since 1622 - Schneider Electric declaration of conformity  
Schneider Electric declaration of conformity |
| REACh                         | Reference not containing SVHC above the threshold  
Reference not containing SVHC above the threshold |
| Product environmental profile | Available  
End of Life Information |
<p>| Product end of life instructions | Need no specific recycling operations |</p>
<table>
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<th><strong>Contractual warranty</strong></th>
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<tbody>
<tr>
<td><strong>Warranty period</strong></td>
<td>18 months</td>
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