

# Product datasheet

Specifications



## MINIATURE CIRCUIT BREAKER 50A NS80H

28101

 **Discontinued on:** 20 Jul 2021

 **Discontinued**

### Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                       | NS80H-MA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Device short name                      | Compact NS80H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Circuit breaker name                   | Compact NS80H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Device application                     | Motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Poles description                      | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Protected poles description            | 3t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Network type                           | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [In] rated current                     | 80 A at 65 °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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Breaking capacity code                 | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Breaking capacity                      | 10 kA at 600 V AC 50/60 Hz conforming to NEMA AB1<br>100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1<br>65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1<br>100 kA Icu at 220/240 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>25 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>6 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 |
| [Ics] rated service breaking capacity  | 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>6 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 380/415 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                         | MA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Trip unit technology                   | Magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Trip unit rating                       | 50 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protection type                        | Short-circuit protection (magnetic)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pollution degree                       | 3 conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

## Complementary

|                                          |                                                                                                                             |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Control type                             | Toggle                                                                                                                      |
| Mounting mode                            | Fixed                                                                                                                       |
| Mounting support                         | Backplate                                                                                                                   |
| Upside connection                        | Tunnel terminal                                                                                                             |
| Downside connection                      | Tunnel terminal                                                                                                             |
| Mechanical durability                    | 20000 cycles                                                                                                                |
| Electrical durability                    | 10000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>7000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 |
| Local signalling                         | Positive contact indication                                                                                                 |
| Instantaneous pick-up adjustment type li | Adjustable                                                                                                                  |
| Instantaneous pick-up adjustment range   | 6...14 x In                                                                                                                 |
| Zone selective interlocking ZSI          | Without                                                                                                                     |
| Earth-leakage protection                 | Without                                                                                                                     |
| Height                                   | 120 mm                                                                                                                      |
| Width                                    | 90 mm                                                                                                                       |
| Depth                                    | 80 mm                                                                                                                       |

## Environment

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

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 9.8 cm  |
| Package 1 Width              | 13 cm   |
| Package 1 Length             | 16.2 cm |
| Package 1 Weight             | 977 g   |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better



#### Materials and Substances

EU RoHS Directive

[Compliant](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins