



## Product data sheet

## HDB3WHL3C50

### Characteristics

Miniature circuit breaker HDB3WH - 18 mm AC - C - 3P - 4.5 kA - 50 A



### Main

|                           |                           |
|---------------------------|---------------------------|
| Range of product          | HDB3wH                    |
| Product or component type | Miniature circuit-breaker |
| Device application        | Isolation<br>Control      |
| Trip unit technology      | Thermal-magnetic          |
| Suitability for isolation | Yes                       |
| Mechanical durability     | 20000.0 cycles            |
| Electrical durability     | 7000.0 cycles             |

### Complementary

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Poles description                      | 3P                                                         |
| [In] rated current                     | 50 A                                                       |
| [Ue] rated operational voltage         | 415 V AC 50/60 Hz                                          |
| Curve code                             | C                                                          |
| Magnetic tripping limit                | 5...10 x In                                                |
| Breaking capacity                      | 4.5 kA                                                     |
| [Ui] rated insulation voltage          | 250.0 V between phase and ground<br>500.0 V between phases |
| [Uimp] rated impulse withstand voltage | 4.0 kV                                                     |
| Cable entry                            | Top<br>Bottom                                              |
| Mounting support                       | 35 mm DIN rail                                             |
| Protection type                        | Overload protection<br>Short-circuit protection            |
| Overvoltage category                   | II                                                         |
| Connections - terminals                | Forked type tag connectors                                 |
| Clamping connection capacity           | = 25 mm <sup>2</sup>                                       |
| Tightening torque                      | 2.5 N.m                                                    |
| Height                                 | 80 mm                                                      |
| Width                                  | 53.099999999999994 mm                                      |
| Depth                                  | 78.5 mm                                                    |
| Embedding depth                        | 69.0 mm                                                    |

### Environment

|                         |                                         |
|-------------------------|-----------------------------------------|
| Dielectric test voltage | 2.0 kV 50/60 Hz 1 min                   |
| Shock resistance        | 30 gn (duration = 11.0 ms) for 3 shocks |

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IP degree of protection

IP20

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Pollution degree

2

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Ambient air temperature for operation

-20...60 °C

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Ambient air temperature for storage

-40...70 °C

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