

# Product data sheet

Specifications



Switch disconnecter, TeSys Control, for ON/OFF, 20A(VN20),  $\tilde{A}$ ~22.5 fixing, for mounting on door

VBDN20

## Main

|                               |                          |
|-------------------------------|--------------------------|
| Range                         | TeSys                    |
| Product Name                  | TeSys Mini-VARIO         |
| Device Short Name             | VBDN                     |
| Product Or Component Type     | Switch disconnecter      |
| Performance Level             | Standard                 |
| Poles Description             | 3P                       |
| Contacts Type And Composition | 3 NO                     |
| Network Type                  | DC<br>AC                 |
| Control Type                  | Rotary handle            |
| Rotary Handle Mounting Style  | Direct                   |
| Handle Colour                 | Black                    |
| Handle Front Plate Colour     | Black                    |
| Rotary Handle Padlocking      | 1 to 3 padlocks 4...8 mm |

## Complementary

|  |   |
|--|---|
| Marking                                      | 0 - 1   |
| Mounting Support                             | Handle: door<br>Switch: door  |
| Fixing Mode                                  | Hole with 22.5 mm for handle  |
| [Ue] Rated Operational Voltage               | 690 V AC 50/60 Hz   |
| [Uimp] Rated Impulse Withstand Voltage       | 6 kV  |
| [Ith] Conventional Free Air Thermal Current  | 20 A  |
| [Ithe] Conventional Enclosed Thermal Current | 16 A  |
| [Ie] Rated Operational Current               | 11 A (AC-23) at 400 V   |
| Rated Operational Power In W                 | 4 kW at 230...240 V (AC-23A)<br>5.5 kW at 400...415 V (AC-23A)<br>7.5 kW at 500 V (AC-23A)<br>11 kW at 690 V (AC-23A)<br>3 kW at 230...240 V (AC-3)<br>4 kW at 400...415 V (AC-3)<br>5.5 kW at 500 V (AC-3)<br>5.5 kW at 690 V (AC-3) |
| Intermittent Duty Class                      | 30  |

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

|  |  |
|--|--|
| Making Capacity ( I Rms)                     | 200 A at 400 V AC-21A<br>200 A at 400 V AC-22A<br>200 A at 400 V AC-23A  |
| [Icm] Rated Short-Circuit Making Capacity    | 0.5 kA at 400 V at Ipeak   |
| [Icw] Rated Short-Time Withstand Rms Current | 140 A at 400 V duration: 1 s   |
| Rated Conditional Short-Circuit Current      | 6 kA at 400 V - associated fuse 20 A aM<br>6 kA at 400 V - associated fuse 20 A gG   |
| Breaking Capacity                            | 200 kA at 400 V (AC-21A)<br>200 kA at 400 V (AC-22A)<br>200 kA at 400 V (AC-23A)   |
| Device Composition                           | Handle<br>Switch   |
| Mechanical Durability                        | 50000 cycles   |
| Electrical Durability                        | 30000 cycles DC-1...5<br>50000 cycles AC-21  |
| Suitability For Isolation                    | Yes  |
| Connections - Terminals                      | Power circuit: screw clamp terminals4 mm² - flexible - with cable end<br>Power circuit: screw clamp terminals4 mm² - solid |
| Tightening Torque                            | Power circuit: 0.7 N.m - on screw clamp terminals  |
| Handle Front Plate Dimension                 | 60 x 60 mm   |
| Height                                       | 60 mm  |
| Width  | 60 mm  |
| Net Weight                                   | 0.177 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-3  |
| Product Certifications                | CSA<br>UL<br>CCC<br>GL<br>UKCA   |
| Protective Treatment                  | TC   |
| Ip Degree Of Protection               | IP65   |
| Mechanical Robustness                 | Shocks 11 ms (15 gn) conforming to IEC 60068-2-27<br>Vibrations 10...150 Hz (1 gn) conforming to IEC 60068-2-6 |
| Ambient Air Temperature For Operation | -20...50 °C  |
| Fire Resistance                       | 960 °C conforming to IEC 60695-2-1   |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 8.0 cm  |
| Package 1 Width              | 8.5 cm  |
| Package 1 Length             | 12.0 cm |
| Package 1 Weight             | 179.0 g |
| Unit Type Of Package 2       | S03     |
| Number Of Units In Package 2 | 24      |

|                  |          |
|------------------|----------|
| Package 2 Height | 30.0 cm  |
| Package 2 Width  | 30.0 cm  |
| Package 2 Length | 40.0 cm  |
| Package 2 Weight | 4.853 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Sustainability

**Green Premium™** label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

✓ Pvc Free

## Certifications & Standards

|                           |   |
|---------------------------|---|
| Reach Regulation          | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive         | Compliant with Exemptions   |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information   |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>   |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| Circularity Profile       | No need of specific recycling operations  |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |