

SWITCH DISCONNECTOR 3VT1 3-POLE; SWITCH  
DISCONNECTOR IN= 160A RATED CURRENT WITHOUT  
AUXILIARY RELEASE WITHOUT AUXILIARY/ALARM SWITCH



| Model                                                |                                     |
|------------------------------------------------------|-------------------------------------|
| product brandname                                    | SENTRON                             |
| Product designation                                  | 3VT1_5 molded case circuit breakers |
| Design of the operating mechanism                    | toggle handle                       |
| Type of the driving mechanism / motor drive          | No                                  |
| General technical data                               |                                     |
| Number of poles                                      | 3                                   |
| Size of the circuit-breaker                          | 3VT1                                |
| Electrical endurance (switching cycles) / typical    | 6 000                               |
| Usage category                                       | A                                   |
| Performance class for circuit breaker                | N                                   |
| Mechanical service life (switching cycles) / typical | 20 000                              |
| Operating frequency / maximum                        | 120 1/h                             |
| Voltage                                              |                                     |
| Insulation voltage / rated value                     | 690 V                               |
| Surge voltage resistance / rated value               | 8 kV                                |
| Protection class                                     |                                     |
| Protection class IP                                  | IP40                                |

| Dissipation                                                                  |                     |
|------------------------------------------------------------------------------|---------------------|
| <b>Power loss [W]</b>                                                        |                     |
| • for rated value of the current / at AC / in hot operating state / per pole | 5 W                 |
| • maximum                                                                    | 15 W                |
| Electricity                                                                  |                     |
| Continuous current / rated value                                             | 160 A               |
| Derating temperature / for the rated value of the continuous current         | 40 °C               |
| Main circuit                                                                 |                     |
| <b>Operating frequency</b>                                                   |                     |
| • 1 / rated value                                                            | 50 Hz               |
| • 2 / rated value                                                            | 60 Hz               |
| <b>Operating voltage</b>                                                     |                     |
| • rated value / maximum                                                      | 690 V               |
| • for main current circuit / at AC / at 50 Hz / maximum                      | 690 V               |
| • for main current circuit / at AC / at 60 Hz / maximum                      | 690 V               |
| • for main current circuit / at DC / maximum                                 | 250 V               |
| <b>Operating current</b>                                                     |                     |
| • at 40 °C / rated value                                                     | 160 A               |
| • at 50 °C / rated value                                                     | 125 A               |
| Suitability                                                                  |                     |
| <b>Suitability for use</b>                                                   | switch disconnecter |
| • Disconnecting means                                                        | Yes                 |
| Product details                                                              |                     |
| <b>Product component</b>                                                     |                     |
| • Trip indicator                                                             | No                  |
| • Auxiliary switch                                                           | No                  |
| • Voltage trigger                                                            | No                  |
| • undervoltage release                                                       | No                  |
| • undervoltage release with leading contact                                  | No                  |
| Product extension / optional / motor drive                                   | Yes                 |
| Product function                                                             |                     |
| <b>Product function</b>                                                      |                     |
| • Ground fault protection                                                    | No                  |
| • for neutral conductors / Short-circuit and overload proof                  | No                  |
| • Phase failure detection                                                    | No                  |

- Overload protection

No

## Connections

|                                                                 |               |
|-----------------------------------------------------------------|---------------|
| Arrangement of electrical connectors / for main current circuit | front side    |
| Type of electrical connection / for main current circuit        | box terminals |

## Mechanical Design

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Height            | 130 mm                                                                                                                  |
| Width             | 75 mm                                                                                                                   |
| Depth             | 80 mm                                                                                                                   |
| Mounting position | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back |
| Mounting type     | fixed mounting                                                                                                          |
| Net weight        | 1.015 kg                                                                                                                |

## Environmental conditions

|                              |        |
|------------------------------|--------|
| <b>Ambient temperature</b>   |        |
| • during operation / minimum | -40 °C |
| • during operation / maximum | 55 °C  |
| • during storage / minimum   | -40 °C |
| • during storage / maximum   | 55 °C  |

## Certificates

|                          |   |
|--------------------------|---|
| <b>Equipment marking</b> |   |
| • acc. to DIN EN 61346-2 | Q |
| • acc. to DIN EN 81346-2 | Q |

| General Product Approval | Declaration of Conformity | Test Certificates | other |
|--------------------------|---------------------------|-------------------|-------|
|--------------------------|---------------------------|-------------------|-------|



[Typprüfbescheinigung/Werkszeugnis](#)

[sonstig](#)

[Umweltbestätigung](#)

## Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VT1716-2DE36-0AA0>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3VT1716-2DE36-0AA0/all>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VT1716-2DE36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT1716-2DE36-0AA0)

**CAX-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

<http://www.siemens.com/specifications>

