

CIRCUIT BREAKER 3VT3 HIGH BREAKING  
CAPACITY ICU=65KA, 415V AC 4-POLE; CIRCUIT  
BREAKER W/O OVERCURRENT RELEASE N  
MEASURED + SWITCHED 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                                                              |     | 4                                   |
| Size of the circuit-breaker                                                  |     | 3VT3                                |
| Electrical endurance (switching cycles) / typical                            |     | 5 000                               |
| Usage category                                                               |     | A                                   |
| Performance class for circuit breaker                                        |     | H                                   |
| Mechanical service life (switching cycles) / typical                         |     | 20 000                              |
| Operating frequency / maximum                                                | 1/h | 120                                 |
| Voltage                                                                      |     |                                     |
| Insulation voltage / rated value                                             | V   | 690                                 |
| Surge voltage resistance / rated value                                       | kV  | 8                                   |
| Protection class                                                             |     |                                     |
| Protection class IP                                                          |     | IP40                                |
| Dissipation                                                                  |     |                                     |
| Power loss [W]                                                               |     |                                     |
| • for rated value of the current / at AC / in hot operating state / per pole | W   | 25                                  |
| • maximum                                                                    | W   | 75                                  |
| Electricity                                                                  |     |                                     |
| Continuous current / rated value                                             | A   | 630                                 |
| Derating temperature / for the rated value of the continuous current         | °C  | 55                                  |
| Main circuit                                                                 |     |                                     |
| Operating frequency                                                          |     |                                     |
| • 1 / rated value                                                            | Hz  | 50                                  |
| • 2 / rated value                                                            | Hz  | 60                                  |

|                                                                  |    |                              |
|------------------------------------------------------------------|----|------------------------------|
| <b>Operating voltage</b>                                         |    |                              |
| • rated value / maximum                                          | V  | 690                          |
| • for main current circuit / at AC / at 50 Hz / maximum          | V  | 690                          |
| • for main current circuit / at AC / at 60 Hz / maximum          | V  | 690                          |
| • for main current circuit / at DC / maximum                     | V  | 440                          |
| <b>Operating current</b>                                         |    |                              |
| • at 40 °C / rated value                                         | A  | 630                          |
| • at 50 °C / rated value                                         | A  | 630                          |
| • at 55 °C / rated value                                         | A  | 600                          |
| • at 60 °C / rated value                                         | A  | 600                          |
| • at 65 °C / rated value                                         | A  | 540                          |
| • at 70 °C / rated value                                         | A  | 540                          |
| <b>Auxiliary circuit</b>                                         |    |                              |
| Number of CO contacts / for auxiliary contacts                   |    | 0                            |
| Number of NC contacts / for auxiliary contacts                   |    | 0                            |
| Number of NO contacts / for auxiliary contacts                   |    | 0                            |
| <b>Suitability</b>                                               |    |                              |
| <b>Suitability for use</b>                                       |    | Contact unit without release |
| • Disconnecting means                                            |    | Yes                          |
| <b>Product details</b>                                           |    |                              |
| <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                          |
| <b>Product function</b>                                          |    |                              |
| <b>Product function</b>                                          |    |                              |
| • Ground fault protection                                        |    | No                           |
| • for neutral conductors / Short-circuit and overload proof      |    | No                           |
| • Phase failure detection                                        |    | No                           |
| • Overload protection                                            |    | No                           |
| <b>Short circuit</b>                                             |    |                              |
| <b>Operational short-circuit current breaking capacity (Ics)</b> |    |                              |
| • at 240 V / rated value                                         | kA | 75                           |
| • at 415 V / rated value                                         | kA | 36                           |

|                                                              |    |     |
|--------------------------------------------------------------|----|-----|
| • at 500 V / rated value                                     | kA | 20  |
| • at 690 V / rated value                                     | kA | 15  |
| <b>Maximum short-circuit current breaking capacity (Icu)</b> |    |     |
| • at 240 V / rated value                                     | kA | 100 |
| • at 415 V / rated value                                     | kA | 65  |
| • at 500 V / rated value                                     | kA | 35  |
| • at 690 V / rated value                                     | kA | 20  |

|                                                                 |  |                      |
|-----------------------------------------------------------------|--|----------------------|
| <b>Connections</b>                                              |  |                      |
| Arrangement of electrical connectors / for main current circuit |  | front side           |
| Type of electrical connection / for main current circuit        |  | screw-type terminals |

|                          |    |                                                                                                                         |
|--------------------------|----|-------------------------------------------------------------------------------------------------------------------------|
| <b>Mechanical Design</b> |    |                                                                                                                         |
| Height                   | mm | 275                                                                                                                     |
| Width                    | mm | 185                                                                                                                     |
| Depth                    | mm | 117                                                                                                                     |
| 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               | kg | 7.4                                                                                                                     |

|                                 |    |     |
|---------------------------------|----|-----|
| <b>Environmental conditions</b> |    |     |
| <b>Ambient temperature</b>      |    |     |
| • during operation / minimum    | °C | -40 |
| • during operation / maximum    | °C | 70  |
| • during storage / minimum      | °C | -40 |
| • during storage / maximum      | °C | 70  |

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

|                                 |                                  |                          |              |
|---------------------------------|----------------------------------|--------------------------|--------------|
| <b>General Product Approval</b> | <b>Declaration of Conformity</b> | <b>Test Certificates</b> | <b>other</b> |
|---------------------------------|----------------------------------|--------------------------|--------------|



[Typprüfbescheinigung/Werkszeugnis](#)

[sonstig](#)

[Umweltbestätigung](#)

|                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Further information</b>                                                                                                                                       |
| Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a> |

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VT3763-3AA56-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT3763-3AA56-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VT3763-3AA56-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT3763-3AA56-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>

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