

CIRCUIT BREAKER 3VT3 STANDARD BREAKING CAPACITY  
ICU=36KA, 415V AC 4-POLE; CIRCUIT BREAKER W/O  
OVERCURRENT RELEASE N SWITCHED WITHOUT AUXILIARY  
RELEASE WITHOUT AUXILIARY/ALARM SWITCH



Figure similar

| 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                | 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                                |

|                                                                              |                              |
|------------------------------------------------------------------------------|------------------------------|
| <b>Protection class</b>                                                      |                              |
| <b>Protection class IP</b>                                                   | IP40                         |
| <b>Dissipation</b>                                                           |                              |
| <b>Power loss [W]</b>                                                        |                              |
| • for rated value of the current / at AC / in hot operating state / per pole | 25 W                         |
| • maximum                                                                    | 75 W                         |
| <b>Electricity</b>                                                           |                              |
| Continuous current / rated value                                             | 630 A                        |
| Derating temperature / for the rated value of the continuous current         | 55 °C                        |
| <b>Main circuit</b>                                                          |                              |
| <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                                 | 440 V                        |
| <b>Operating current</b>                                                     |                              |
| • at 40 °C / rated value                                                     | 630 A                        |
| • at 50 °C / rated value                                                     | 630 A                        |
| • at 55 °C / rated value                                                     | 600 A                        |
| • at 60 °C / rated value                                                     | 600 A                        |
| • at 65 °C / rated value                                                     | 540 A                        |
| • at 70 °C / rated value                                                     | 540 A                        |
| <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                          |

| 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                                                                                                                      |
| Short circuit                                                    |                                                                                                                         |
| <b>Operational short-circuit current breaking capacity (Ics)</b> |                                                                                                                         |
| • at 240 V / rated value                                         | 40 kA                                                                                                                   |
| • at 415 V / rated value                                         | 18 kA                                                                                                                   |
| • at 500 V / rated value                                         | 10 kA                                                                                                                   |
| • at 690 V / rated value                                         | 8 kA                                                                                                                    |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |                                                                                                                         |
| • at 240 V / rated value                                         | 60 kA                                                                                                                   |
| • at 415 V / rated value                                         | 36 kA                                                                                                                   |
| • at 500 V / rated value                                         | 20 kA                                                                                                                   |
| • at 690 V / rated value                                         | 15 kA                                                                                                                   |
| Connections                                                      |                                                                                                                         |
| Arrangement of electrical connectors / for main current circuit  | front side                                                                                                              |
| Type of electrical connection / for main current circuit         | screw-type terminals                                                                                                    |
| Mechanical Design                                                |                                                                                                                         |
| <b>Height</b>                                                    | 275 mm                                                                                                                  |
| <b>Width</b>                                                     | 185 mm                                                                                                                  |
| <b>Depth</b>                                                     | 117 mm                                                                                                                  |
| <b>Mounting position</b>                                         | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back |
| <b>Mounting type</b>                                             | fixed mounting                                                                                                          |
| <b>Net weight</b>                                                | 7.4 kg                                                                                                                  |
| Environmental conditions                                         |                                                                                                                         |
| <b>Ambient temperature</b>                                       |                                                                                                                         |
| • during operation / minimum                                     | -40 °C                                                                                                                  |
| • during operation / maximum                                     | 70 °C                                                                                                                   |
| • during storage / minimum                                       | -40 °C                                                                                                                  |
| • during storage / maximum                                       | 70 °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 |  |
|--------------------------|---------------------------|-------------------|-------|--|
|--------------------------|---------------------------|-------------------|-------|--|



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## 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/3VT3763-2AA46-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VT3763-2AA46-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VT3763-2AA46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT3763-2AA46-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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



