SIEMENS

Show actual product details

## Data sheet 3VT3740-3AC56-0AA0

CIRCUIT BREAKER 3VT3 HIGH BREAKING CAPACITY ICU=65KA, 415V AC 4-POLE; CIRCUIT BREAKER N MEASURED + SWITCHED W/OVERCURRENT RELEASE SYSTEM PROTECTION ETU DP, LI IR= 160...400A, OVERLOAD PROTECTION IRM= 4 TO 12.5X IR, SHORT-CIRCUIT PROTECTION, 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 |
| **Design of the overcurrent release** | | ETU DP |

| 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 |
| **Protective function of the overcurrent release** | | LI |

| 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 | 400 |
| Derating temperature / for the rated value of the continuous current | °C | 55 |
| **Adjustable pick-up value current** | | |
| • of the current-dependent overload release / Full-scale value | A | 400 |
| • of instantaneous short-circuit trip unit / initial value | A | 1 600 |
| • of instantaneous short-circuit trip unit / Full-scale value | A | 5 000 |

| Main circuit | | |
|---|---|---|
| **Operating frequency** | | |
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |
| **Operating voltage** | | |
| • 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 |
| **Operating current** | | |
| • at 40 °C / rated value | A | 400 |
| • at 50 °C / rated value | A | 400 |
| • at 55 °C / rated value | A | 400 |
| • at 60 °C / rated value | A | 400 |
| • at 65 °C / rated value | A | 400 |
| • at 70 °C / rated value | A | 400 |

| Auxiliary circuit | | |
|---|---|---|
| Number of CO contacts / for auxiliary contacts | | 0 |
| **Number of NC contacts / for auxiliary contacts** | | 0 |
| **Number of NO contacts / for auxiliary contacts** | | 0 |

| Suitability | | |
|---|---|---|
| **Suitability for use** | | system protection |

| | | |
|---|---|---|
| • Disconnecting means | | Yes |

## Adjustable parameters

| | | |
|---|---|---|
| **Adjustable pick-up value current / of the current-dependent overload release / initial value** | A | 400 |

## Product details

| | | |
|---|---|---|
| **Product component** | | |
| • 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

| | | |
|---|---|---|
| **Product function** | | |
| • of thermal overload trip unit | | adjustable |
| • Ground fault protection | | No |
| • for neutral conductors / Short-circuit and overload proof | | No |
| • Phase failure detection | | No |
| • Overload protection | | Yes |

## Short circuit

| | | |
|---|---|---|
| **Operational short-circuit current breaking capacity (Ics)** | | |
| • 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 |
| **Maximum short-circuit current breaking capacity (Icu)** | | |
| • 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 |

## Connections

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

## Mechanical Design

| | | |
|---|---|---|
| **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 | 7.745 |

## Environmental conditions

| | | |
|---|---|---|
| **Ambient temperature** | | |
| • during operation / minimum | °C | -40 |
| • during operation / maximum | °C | 70 |
| • during storage / minimum | °C | -40 |
| • during storage / maximum | °C | 70 |

## Certificates

| | | |
|---|---|---|
| **Equipment marking** | | |
| • acc. to DIN EN 61346-2 | | Q |
| • acc. to DIN EN 81346-2 | | Q |

| General Product Approval | | Declaration of Conformity | Test Certificates | other | |
|---|---|---|---|---|---|
| CCC | EAC | EG-Konf. | 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/3VT3740-3AC56-0AA0

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3VT3740-3AC56-0AA0/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT3740-3AC56-0AA0

**CAx-Online-Generator**
http://www.siemens.com/cax

**Tender specifications**
http://ausschreibungstexte.siemens.com/tiplv

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