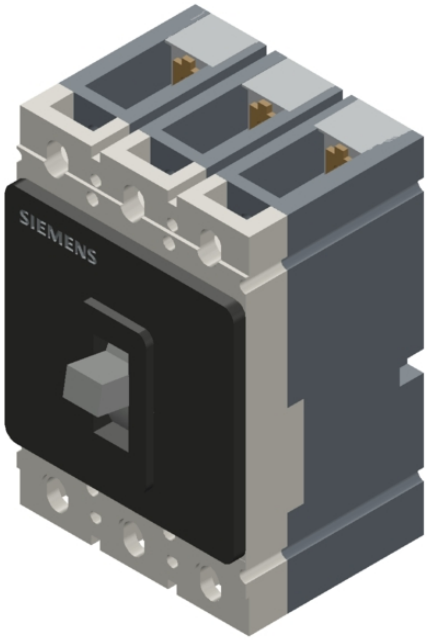
SIEMENS

## Product data sheet 3VL1706-1DD36-0AD1




Similar to image

CIRCUIT-BREAKER VL160X N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE,
LINE PROTECTION OVERCURRENT RELEASE TM,
LI IN=63A, RATED CURRENT IR=50-63A,
OVERLOAD II=600A,
SHORT-CIRCUIT WITH SCREW CONNECTION

| General technical data: | | |
|---|---|---|
| **Number of poles** | | 3 |
| **Design of the overcurrent release** | | TM |
| **Acceptability for application** | | system protection |
| **Electrical operating cycles as operating time / typical** | | 10,000 |
| **Mechanical operating cycles as operating time / typical** | | 20,000 |
| **Active power loss / maximum** | W | 70 |
| **Product component** | | |
| • auxiliary switch | | Yes |
| • Voltage trigger | | No |
| • undervoltage release mechanism | | No |
| • undervoltage release with leading contact | | No |
| **Product function** | | |
| • of the thermal overload release | | adjustable |
| • ground-fault protection | | No |
| • for zero conductors / short-circuit and overload protection | | No |
| • overload protection | | Yes |
| **Operating cycles / maximum** | 1/s | 120 |
| **Protection class IP** | | IP20 |

| | | |
|---|---|---|
| **Protective function of the overcurrent release** | | LI |
| **Impulse voltage resistance / rated value** | kV | 8 |
| **Ambient temperature** | | |
| • during operating | | |
| • minimum | °C | -25 … |
| • maximum | °C | 70 |
| • during storage | | |
| • minimum | °C | -40 |
| • maximum | °C | 50 |

## Main circuit:

| | | |
|---|---|---|
| **Insulation voltage / for AC / rated value** | V | 800 |
| **Operating frequency** | | |
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |
| **Item designation** | | |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | Q |
| • according to DIN EN 61346-2 | | Q |
| **Operating voltage** | | |
| • for main current circuit | | |
| • at 50 Hz / for AC | | |
| • maximum | V | 690 |
| • at 60 Hz / for AC | | |
| • maximum | V | 690 |
| • for DC | | |
| • maximum | V | 500 |
| **Operating current** | | |
| • at 40 °C / rated value | A | 63 |
| • at 50 °C / rated value | A | 63 |
| • at 60 °C / rated value | A | 58.6 |
| • at 70 °C / rated value | A | 54.2 |
| **Continuous current / rated value** | A | 63 |
| **Derating temperature / for the rated value of the continuous current** | °C | 50 |

## Auxiliary circuit:

| | | |
|---|---|---|
| **Number of NC contacts / for auxiliary contacts** | | 1 |
| **Number of NO contacts / for auxiliary contacts** | | 2 |

## Short-circuit:

| | | |
|---|---|---|
| **Adjustable response current** | | |

| | | |
|---|---|---|
| • of the current-dependent overload release | | |
| • initial value | A | 50 … |
| • final value | A | 63 |
| • of the non-delayed short-circuit release | | |
| • initial value | A | 600 … |
| • final value | A | 600 |
| **Breaking capacity limit short-circuit current (Icu) / at 415 V / rated value** | kA | 55 |

## Installation/mounting/dimensions:

| | | |
|---|---|---|
| **Type of mounting** | | fixed mounting |
| **Height** | mm | 157.5 |
| **Width** | mm | 104.5 |
| **Depth** | mm | 106.5 |

## Connections:

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

## Certificates/approvals:

## Further information:

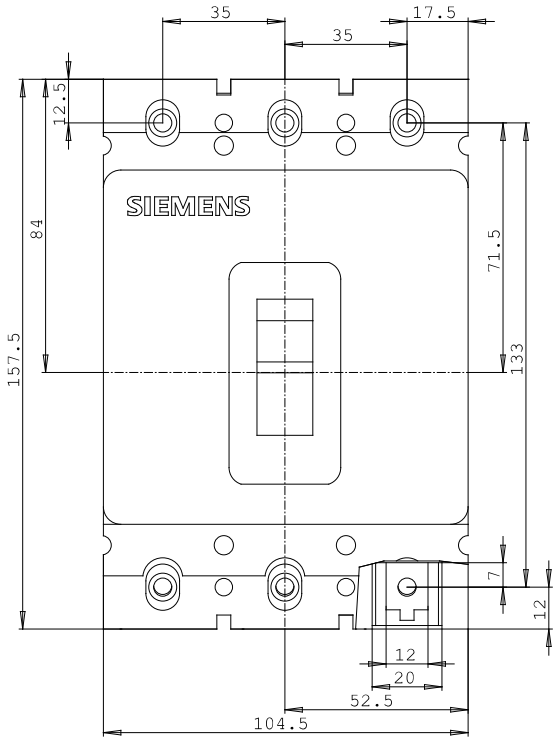
**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/lowvoltage/catalogs

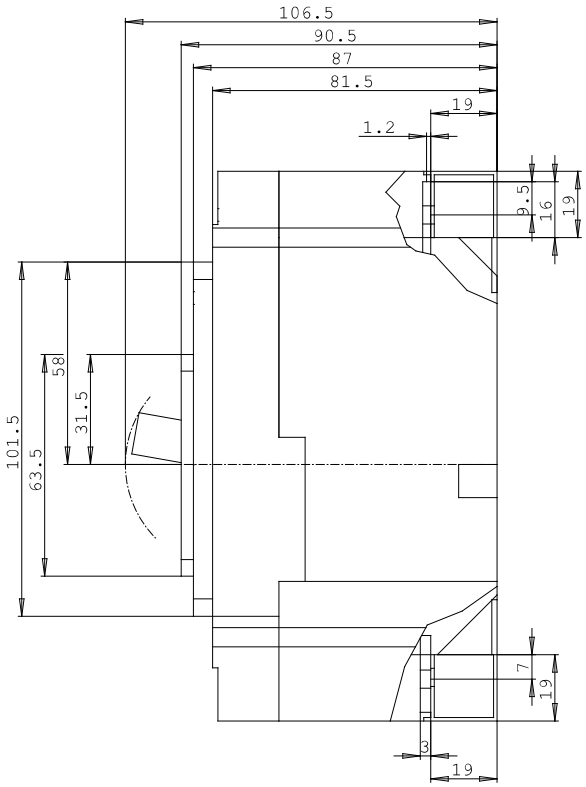
**Industry Mall (Online ordering system)**
http://www.siemens.com/lowvoltage/mall

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3VL1706-1DD36-0AD1/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1706-1DD36-0AD1

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




**last change:** May 14, 2012