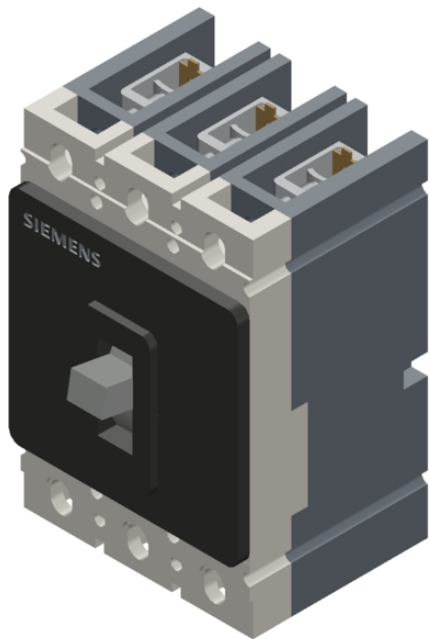




Similar to image

CIRCUIT-BREAKER VL160X N STANDARD BREAKING  
CAPACITY ICU=55KA / 415 V AC 3 POLE,  
LINE PROTECTION OVERCURRENT RELEASE TM,  
LI IN=20A, RATED CURRENT IR=20A,  
OVERLOAD II=300A,  
SHORT-CIRCUIT WITHOUT AUXILIARY RELEASE  
WITHOUT AUXILIARY/ALARM SWITCH

| 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                                            |     | No                |
| • Voltage trigger                                             |     | No                |
| • undervoltage release mechanism                              |     | No                |
| • undervoltage release with leading contact                   |     | No                |
| Product function                                              |     |                   |
| • of the thermal overload release                             |     | fixed             |
| • 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              |

|                                                       |    |             |
|-------------------------------------------------------|----|-------------|
| <b>Protective function of the overcurrent release</b> |    | LI          |
| <b>Impulse voltage resistance / rated value</b>       | kV | 8           |
| <b>Ambient temperature</b>                            |    |             |
| • during operating                                    | °C | 0 ... 70    |
| • during storage                                      | °C | -40 ... +80 |

#### Main circuit:

|                                                                                 |    |      |
|---------------------------------------------------------------------------------|----|------|
| <b>Insulation voltage / for AC / rated value</b>                                | V  | 800  |
| <b>Operating frequency</b>                                                      |    |      |
| • 1 / rated value                                                               | Hz | 50   |
| • 2 / rated value                                                               | Hz | 60   |
| <b>Reference code</b>                                                           |    |      |
| • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 |    | Q    |
| • according to DIN EN 61346-2                                                   |    | Q    |
| <b>Operating voltage / for main circuit</b>                                     |    |      |
| • at 50 Hz / with AC                                                            |    |      |
| • maximum                                                                       | V  | 690  |
| • at 60 Hz / with AC                                                            |    |      |
| • maximum                                                                       | V  | 690  |
| <b>Operating voltage / for main current circuit / for DC</b>                    |    |      |
| • maximum                                                                       | V  | 500  |
| <b>Operating current</b>                                                        |    |      |
| • at 40 °C / rated value                                                        | A  | 20   |
| • at 50 °C / rated value                                                        | A  | 20   |
| • at 60 °C / rated value                                                        | A  | 18.6 |
| • at 70 °C / rated value                                                        | A  | 17.2 |
| <b>Continuous current / rated value</b>                                         | A  | 20   |
| <b>Derating temperature / for the rated value of the continuous current</b>     | °C | 50   |

#### Auxiliary circuit:

|                                                       |  |   |
|-------------------------------------------------------|--|---|
| <b>Number of NC contacts / for auxiliary contacts</b> |  | 0 |
| <b>Number of NO contacts / for auxiliary contacts</b> |  | 0 |

#### Short-circuit:

|                                                                                                |    |             |
|------------------------------------------------------------------------------------------------|----|-------------|
| <b>Adjustable response current</b>                                                             |    |             |
| • of the current-dependent overload release                                                    | A  | 20 ... 20   |
| • of the non-delayed short-circuit release                                                     | A  | 300 ... 300 |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 415 V / rated value</b> | kA | 55          |

### Installation/mounting/dimensions:

|               |    |                |
|---------------|----|----------------|
| Mounting type |    | 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                                                                                                                                                                                                                                                                                  |  | box terminals                                                                                                                |
| Type of the connectable conductor cross-section <ul style="list-style-type: none"><li>• for main contacts<ul style="list-style-type: none"><li>• solid</li><li>• stranded</li></ul></li><li>• for auxiliary contacts<ul style="list-style-type: none"><li>• solid</li><li>• finely stranded / with conductor end processing</li></ul></li></ul> |  | 2.5 ... 95 mm <sup>2</sup><br>2.5 ... 95 mm <sup>2</sup><br><br>0.75 ... 1.5 mm <sup>2</sup><br>0,75 ... 1.0 mm <sup>2</sup> |

### Certificates/approvals:

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



CCC

[KTL](#)

[TSE](#)



EG-Konf.

[Special Test Certificate](#)

### Shipping Approval



ABS



BUREAU  
VERITAS



DNV



GL



PRS



RINA

### Shipping Approval

other



RMRS

[Confirmation](#)

[other](#)

[Environmental Confirmations](#)

### 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/3VL1702-1DA33-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL1702-1DA33-0AA0/all>

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

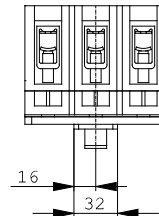
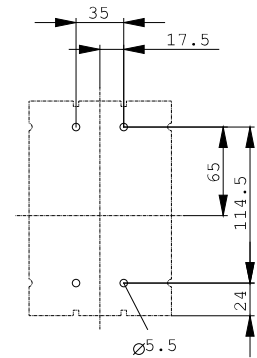
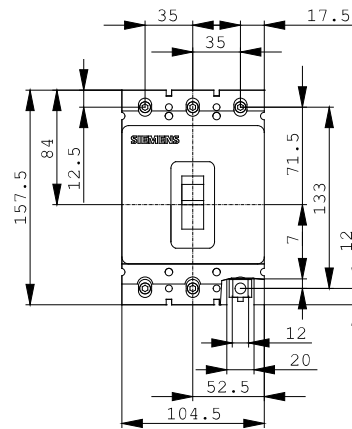
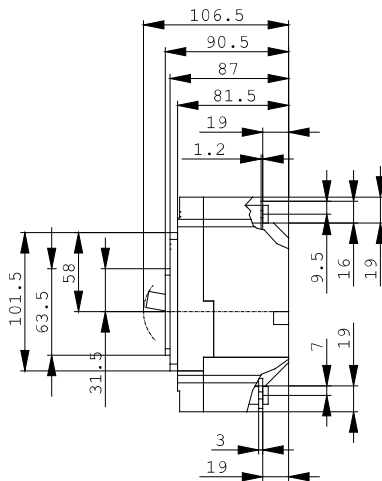
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL1702-1DA33-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1702-1DA33-0AA0)

#### CAX-Online-Generator

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

## Tender specifications

[Datanorm](#) [GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)



last change:

Jun 16, 2014