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CIRCUIT-BREAKER VL160X N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=32A, RATED CURRENT IR=32A, OVERLOAD II=300A, SHORT-CIRCUIT WITHOUT AUXILIARY RELEASE WITHOUT AUXILIARY/ALARM SWITCH

**General technical data:**

|  |     |                   |
|--|-----|-------------------|
| <b>Number of poles</b>   |     | 3                 |
| <b>Design of the overcurrent release</b>                       |     | TM                |
| <b>Acceptability for application</b>                           |     | system protection |
| <b>Electrical operating cycles as operating time / typical</b> |     | 10,000            |
| <b>Mechanical operating cycles as operating time / typical</b> |     | 20,000            |
| <b>Active power loss / maximum</b>                             | W   | 70                |
| <b>Product component</b>                                       |     |                   |
| • auxiliary switch   |     | No                |
| • Voltage trigger  |     | No                |
| • undervoltage release mechanism                               |     | No                |
| • undervoltage release with leading contact                    |     | No                |
| <b>Product function</b>  |     |                   |
| • of the thermal overload release                              |     | fixed             |
| • ground-fault protection                                      |     | No                |
| • for zero conductors / short-circuit and overload protection  |     | No                |
| • overload protection  |     | Yes               |
| <b>Operating cycles / maximum</b>                              | 1/s | 120               |
| <b>Protection class IP</b>                                     |     | 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  | 32   |
| • at 50 °C / rated value  | A  | 32   |
| • at 60 °C / rated value  | A  | 29.8 |
| • at 70 °C / rated value  | A  | 27.5 |
| <b>Continuous current / rated value</b>   | A  | 32   |
| <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  | 32 ... 32   |
| • 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>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](#)

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[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/3VL1703-1DA33-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL1703-1DA33-0AA0/all>

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

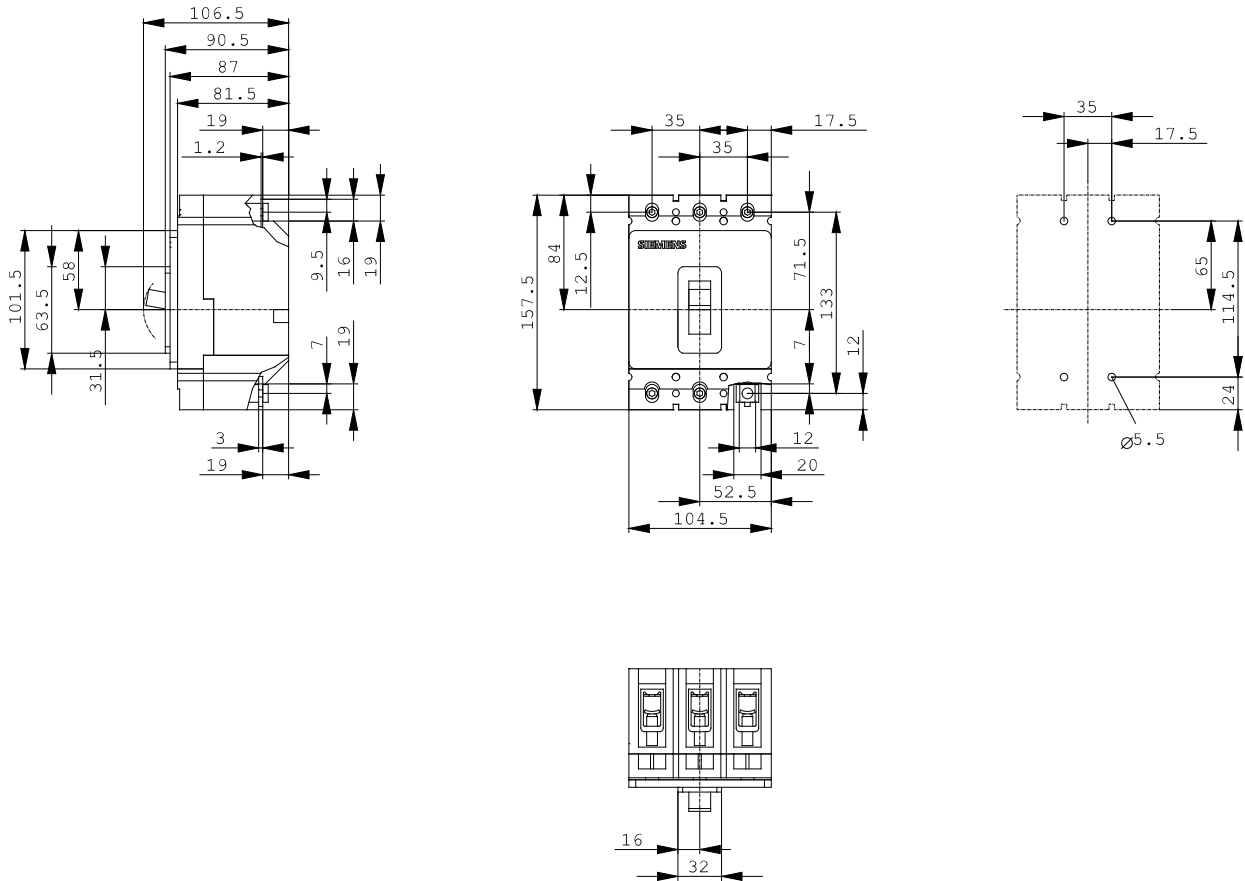
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL1703-1DA33-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1703-1DA33-0AA0)

### CAX-Online-Generator

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

Tender specifications

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



last change:

Jun 16, 2014