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CIRCUIT-BREAKER VL 160L VERY HIGH BREAKING  
CAPACITY ICU=100KA / 415 V AC 3 POLE,  
NON-AUTOMATIC OVERCURRENT RELEASE MAGNETIC  
IN=160A,  
RATED CURRENT II=2500A, SHORT CIRCUIT

### General technical data:

|                                                               |     |                                |
|---------------------------------------------------------------|-----|--------------------------------|
| Number of poles                                               |     | 3                              |
| Design of the overcurrent release                             |     | M                              |
| Acceptability for application                                 |     | non-automatic circuit-breakers |
| Electrical operating cycles as operating time / typical       |     | 10,000                         |
| Mechanical operating cycles as operating time / typical       |     | 20,000                         |
| Active power loss / maximum                                   | W   | 40                             |
| 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                             |     | Without                        |
| • ground-fault protection                                     |     | No                             |
| • for zero conductors / short-circuit and overload protection |     | No                             |
| • overload protection                                         |     | No                             |
| Operating cycles / maximum                                    | 1/s | 120                            |
| Protection class IP                                           |     | IP20                           |
| Protective function of the overcurrent release                |     | I                              |
| 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 |
|-------------------------------------------|---|-----|

|                                                                                                                                                                                     |    |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
| <b>Operating frequency</b><br><br>• 1 / rated value<br><br>• 2 / rated value                                                                                                        | Hz | 50    |
|                                                                                                                                                                                     | Hz | 60    |
| <b>Item designation</b><br><br>• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750<br><br>• according to DIN EN 61346-2                                      |    | Q     |
|                                                                                                                                                                                     |    | Q     |
| <b>Operating voltage</b><br><br>• for main current circuit<br><br>• at 50 Hz / for AC<br><br>• maximum<br><br>• at 60 Hz / for AC<br><br>• maximum<br><br>• for DC<br><br>• maximum | V  | 690   |
|                                                                                                                                                                                     | V  | 690   |
|                                                                                                                                                                                     | V  | 500   |
|                                                                                                                                                                                     |    |       |
| <b>Operating current</b><br><br>• at 40 °C / rated value<br><br>• at 50 °C / rated value<br><br>• at 60 °C / rated value<br><br>• at 70 °C / rated value                            | A  | 160   |
|                                                                                                                                                                                     | A  | 160   |
|                                                                                                                                                                                     | A  | 148.8 |
|                                                                                                                                                                                     | A  | 137.6 |
| <b>Continuous current / rated value</b>                                                                                                                                             | A  | 160   |
| <b>Derating temperature / for the rated value of the continuous current</b>                                                                                                         | °C | 50    |

#### Auxiliary circuit:

Number of NC contacts / for auxiliary contacts

0

Number of NO contacts / for auxiliary contacts

0

#### Short-circuit:

##### Adjustable response current

- of the current-dependent overload release
  - initial value
- of the non-delayed short-circuit release
  - initial value
  - final value

...

A

2,500 ...

A

2,500

**Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 415 V / rated value**

kA

100

#### Installation/mounting/dimensions:

**Type of mounting**

fixed mounting

**Height**

mm

174.5

**Width**

mm

104.5

|              |    |       |
|--------------|----|-------|
| <b>Depth</b> | mm | 106.5 |
|--------------|----|-------|

#### Connections:

|                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Arrangement of electrical connectors / for main current circuit</b>                                                                                                                                                                                                                                                                                                                                  |  | front side                                                                                                                                                               |
| <b>Design of the electrical connection / for main current circuit</b>                                                                                                                                                                                                                                                                                                                                   |  | box terminals                                                                                                                                                            |
| <b>Type of the connectable conductor cross-section</b>                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• with flexible busbar</li> <li>• solid</li> <li>• finely stranded / with conductor end processing</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> |  | 12 x 10 mm<br>2,5 ... 95 mm <sup>2</sup><br>2,5 ... 50 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:

#### 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/3VL2716-3DE33-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL2716-3DE33-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-3DE33-0AA0)

##### CAX-Online-Generator

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

**last change:**

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