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CIRCUIT-BREAKER VL 800H HIGH BREAKING CAPACITY  
ICU=70KA / 415 V AC 3 POLE,  
NON-AUTOMATIC OVERCURRENT RELEASE MAGNETIC  
IN=800A,  
RATED CURRENT II=6500A, 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       |     | 3,000                          |
| Mechanical operating cycles as operating time / typical       |     | 10,000                         |
| Active power loss / maximum                                   | W   | 250                            |
| 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 | 60                             |
| Protection class IP                                           |     | IP20                           |

|                                                       |    |         |
|-------------------------------------------------------|----|---------|
| <b>Protective function of the overcurrent release</b> |    | I       |
| <b>Impulse voltage resistance / rated value</b>       | kV | 8       |
| <b>Ambient temperature</b>                            |    |         |
| • during operating                                    |    |         |
| • minimum                                             | °C | -25 ... |
| • maximum                                             | °C | 70      |
| • during storage                                      |    |         |
| • minimum                                             | °C | -40     |
| • maximum                                             | °C | 50      |

#### 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>Item designation</b>                                                     |    |     |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750  |    | Q   |
| • according to DIN EN 61346-2                                               |    | Q   |
| <b>Operating voltage</b>                                                    |    |     |
| • 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 |
| <b>Operating current</b>                                                    |    |     |
| • at 40 °C / rated value                                                    | A  | 800 |
| • at 50 °C / rated value                                                    | A  | 800 |
| • at 60 °C / rated value                                                    | A  | 744 |
| • at 70 °C / rated value                                                    | A  | 688 |
| <b>Continuous current / rated value</b>                                     | A  | 800 |
| <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> |  |  |
|------------------------------------|--|--|

|                                                                                                                                                                                                                                                                                                                |    |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|
| <ul style="list-style-type: none"> <li>• of the current-dependent overload release <ul style="list-style-type: none"> <li>• initial value</li> </ul> </li> <li>• of the non-delayed short-circuit release <ul style="list-style-type: none"> <li>• initial value</li> <li>• final value</li> </ul> </li> </ul> |    | ...       |
|                                                                                                                                                                                                                                                                                                                | A  | 6,500 ... |
|                                                                                                                                                                                                                                                                                                                | A  | 6,500     |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 415 V / rated value</b>                                                                                                                                                                                                                 | kA | 70        |

#### Installation/mounting/dimensions:

|                         |    |                |
|-------------------------|----|----------------|
| <b>Type of mounting</b> |    | fixed mounting |
| <b>Height</b>           | mm | 406.5          |
| <b>Width</b>            | mm | 190            |
| <b>Depth</b>            | mm | 176.5          |

#### Connections:

|                                                                                                                                                                                                               |  |                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|
| <b>Arrangement of electrical connectors / for main current circuit</b>                                                                                                                                        |  | front side                                                   |
| <b>Design of the electrical connection / for main current circuit</b>                                                                                                                                         |  | screw-type terminals                                         |
| <b>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>• solid</li> <li>• finely stranded / with conductor end processing</li> </ul> |  | 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/3VL6780-2DE36-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL6780-2DE36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-2DE36-0AA0)

##### CAX-Online-Generator

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

last change:

Feb 8, 2013