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CIRCUIT-BREAKER VL 800N STANDARD BREAKING  
CAPACITY ICU=55KA / 415 V AC 3 POLE,  
NON-AUTOMATIC OVERCURRENT RELEASE MAGNETIC  
IN=800A,  
RATED CURRENT II=6500A,  
SHORT CIRCUIT UNDERVOLTAGE RELEASE 380 - 415 V  
AC WITHOUT AUXILIARY/ALARM SWITCH

### General technical data:

|                                                             |     |                                |
|-------------------------------------------------------------|-----|--------------------------------|
| <b>Number of poles</b>                                      |     | 3                              |
| <b>Design of the overcurrent release</b>                    |     | M                              |
| <b>Suitability for use</b>                                  |     | non-automatic circuit-breakers |
| <b>Usage category</b>                                       |     | A                              |
| <b>Electrical endurance (switching cycles) / typical</b>    |     | 3,000                          |
| <b>Mechanical service life (switching cycles) / typical</b> |     | 10,000                         |
| <b>Active power loss / maximum</b>                          | W   | 250                            |
| <b>Product component</b>                                    |     |                                |
| • Auxiliary switch                                          |     | No                             |
| • Voltage trigger                                           |     | No                             |
| • undervoltage release                                      |     | Yes                            |
| • undervoltage release with leading contact                 |     | No                             |
| <b>Product function</b>                                     |     |                                |
| • of the thermal overload release                           |     | without                        |
| • Ground fault protection                                   |     | No                             |
| • for neutral conductors / Short-circuit and overload proof |     | No                             |
| • overload protection                                       |     | No                             |
| <b>Operating frequency / maximum</b>                        | 1/s | 60                             |
| <b>Protection class IP</b>                                  |     | IP20                           |
| <b>Protective function of the overcurrent release</b>       |     | I                              |
| <b>Surge voltage resistance / Rated value</b>               | kV  | 8                              |
| <b>Ambient temperature</b>                                  |     |                                |
| • during operation                                          | °C  | 0 ... 70                       |
| • during storage                                            | °C  | -40 ... +80                    |

### Main circuit:

|                                                   |   |     |
|---------------------------------------------------|---|-----|
| <b>Insulation voltage / with AC / Rated value</b> | V | 800 |
| <b>Operating frequency</b>                        |   |     |

|                                                                             |    |     |
|-----------------------------------------------------------------------------|----|-----|
| • 1 / Rated value                                                           | Hz | 50  |
| • 2 / Rated value                                                           | Hz | 60  |
| <b>Reference code</b>                                                       |    |     |
| • acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750       |    | Q   |
| • acc. to DIN EN 61346-2                                                    |    | Q   |
| <b>Operating voltage / for main current circuit</b>                         |    |     |
| • with AC / at 50 Hz                                                        |    |     |
| • maximum                                                                   | V  | 690 |
| • with AC / at 60 Hz                                                        |    |     |
| • 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  | 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 value current</b>                                              |    |                 |
| • of the instantaneous short-circuit release                                          | A  | 6,500 ... 6,500 |
| <b>Maximum short-circuit current breaking capacity (Icu) / at 415 V / Rated value</b> | kA | 55              |

#### Installation/mounting/dimensions:

|                      |    |                |
|----------------------|----|----------------|
| <b>Mounting type</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 connectable conductor cross-section</b>                     |  |                      |

- for auxiliary contacts
- solid
- finely stranded / with core end processing

0.75 ... 1.5 mm<sup>2</sup>

0,75 ... 1.0 mm<sup>2</sup>

#### Certificates/approvals:

##### General Product Approval



CCC



CSA

[TSE](#)



EG-Konf.

##### Test Certificates

[Special Test Certificate](#)

##### Shipping Approval



DNV



GL



PRS



RINA



RMRS

##### other

[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/3VL6780-1DE36-2JA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL6780-1DE36-2JA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL6780-1DE36-2JA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-1DE36-2JA0)

##### CAX-Online-Generator

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

##### Tender specifications

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

last change:

Nov 19, 2014