



CIRCUIT-BREAKER VL 400N STANDARD BREAKING CAPACITY  
ICU=55KA / 415 V AC 3 POLE, NON-AUTOMATIC OVERCURRENT  
RELEASE MAGNETIC IN=400A, RATED CURRENT II=4000A,  
SHORT CIRCUIT

| Model                                                                                   |         |
|-----------------------------------------------------------------------------------------|---------|
| Type of the driving mechanism / motor drive                                             | No      |
| Design of the overcurrent release                                                       | M       |
| General technical data                                                                  |         |
| Number of poles                                                                         | 3       |
| Size of the circuit-breaker                                                             | 3VL4    |
| Electrical endurance (switching cycles) / typical                                       | 10 000  |
| Usage category                                                                          | A       |
| Performance class for circuit breaker                                                   | N       |
| Mechanical service life (switching cycles) / typical                                    | 20 000  |
| Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | Q       |
| Operating frequency / maximum                                                           | 120 1/s |
| Voltage                                                                                 |         |
| Rated operational voltage Ue / max.                                                     | 690 V   |
| Insulation voltage                                                                      |         |
| • rated value                                                                           | 800 V   |
| • at AC / rated value                                                                   | 800 V   |

|                                                                      |                                |
|----------------------------------------------------------------------|--------------------------------|
| Surge voltage resistance / rated value                               | 8 kV                           |
| <b>Protection class</b>                                              |                                |
| Protection class IP                                                  | IP20                           |
| Protective function of the overcurrent release                       | I                              |
| <b>Electricity</b>                                                   |                                |
| Continuous current / rated value                                     | 400 A                          |
| Derating temperature / for the rated value of the continuous current | 50 °C                          |
| Adjustable pick-up value current                                     |                                |
| • of instantaneous short-circuit trip unit / initial value           | 4 000 A                        |
| • of instantaneous short-circuit trip unit / Full-scale value        | 4 000 A                        |
| <b>Main circuit</b>                                                  |                                |
| Operating frequency                                                  |                                |
| • 1 / rated value                                                    | 50 Hz                          |
| • 2 / rated value                                                    | 60 Hz                          |
| Operating voltage                                                    |                                |
| • for main current circuit / at AC / at 50 Hz / maximum              | 690 V                          |
| • for main current circuit / at AC / at 60 Hz / maximum              | 690 V                          |
| • for main current circuit / at DC / maximum                         | 500 V                          |
| Operating current                                                    |                                |
| • at 40 °C / rated value                                             | 400 A                          |
| • at 50 °C / rated value                                             | 400 A                          |
| • at 55 °C / rated value                                             | 372 A                          |
| • at 60 °C / rated value                                             | 372 A                          |
| • at 65 °C / rated value                                             | 344 A                          |
| • at 70 °C / rated value                                             | 344 A                          |
| <b>Suitability</b>                                                   |                                |
| Suitability for use                                                  | non-automatic circuit-breakers |
| <b>Product details</b>                                               |                                |
| Product component                                                    |                                |
| • Trip indicator                                                     | No                             |
| • Auxiliary switch                                                   | Yes                            |
| • Voltage trigger                                                    | Yes                            |
| • undervoltage release                                               | No                             |
| • undervoltage release with leading contact                          | No                             |
| Product extension / optional / motor drive                           | Yes                            |

| Product function                                                 |                                      |
|------------------------------------------------------------------|--------------------------------------|
| <b>Product function</b>                                          |                                      |
| • of thermal overload trip unit                                  | without                              |
| • Ground fault protection                                        | No                                   |
| • for neutral conductors / Short-circuit and overload proof      | No                                   |
| • Overload protection                                            | No                                   |
| Short circuit                                                    |                                      |
| <b>Operational short-circuit current breaking capacity (Ics)</b> |                                      |
| • at 240 V / rated value                                         | 65 kA                                |
| • at 415 V / rated value                                         | 55 kA                                |
| • at 500 V / rated value                                         | 20 kA                                |
| • at 690 V / rated value                                         | 8 kA                                 |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |                                      |
| • at 240 V / rated value                                         | 65 kA                                |
| • at 415 V / rated value                                         | 55 kA                                |
| • at 440 V / rated value                                         | 35 kA                                |
| • at 480 V / acc. to NEMA / rated value                          | 35 kA                                |
| • at 500 V / rated value                                         | 25 kA                                |
| • at 600 V / acc. to NEMA / rated value                          | 20 kA                                |
| • at 690 V / rated value                                         | 15 kA                                |
| Connections                                                      |                                      |
| Arrangement of electrical connectors / for main current circuit  | front side                           |
| Type of electrical connection / for main current circuit         | screw-type terminals                 |
| Mechanical Design                                                |                                      |
| <b>Height</b>                                                    | 279.5 mm                             |
| <b>Width</b>                                                     | 139 mm                               |
| <b>Depth</b>                                                     | 163.5 mm                             |
| <b>Mounting type</b>                                             | fixed mounting                       |
| Environmental conditions                                         |                                      |
| <b>Ambient temperature</b>                                       |                                      |
| • during operation / minimum                                     | 0 °C                                 |
| • during operation / maximum                                     | 70 °C                                |
| • during storage / minimum                                       | -40 °C                               |
| • during storage / maximum                                       | 80 °C                                |
| Certificates                                                     |                                      |
| <b>Certificate of suitability</b>                                | IEC, standard switching capacity (N) |
| <b>Equipment marking</b>                                         |                                      |

| General Product Approval | EMC |
|--------------------------|-----|
|--------------------------|-----|



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|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



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PRS



RINA

| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



RMRS

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## 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/3VL4740-1DE36-8TB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL4740-1DE36-8TB1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL4740-1DE36-8TB1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1DE36-8TB1)

### CAX-Online-Generator

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

### Tender specifications

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