



CIRCUIT-BREAKER VL 400N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=400A, RATED CURRENT IR=320-400A, OVERLOAD II=2000-4000A, SHORT CIRCUIT

| Model                                                                                   |     |        |
|-----------------------------------------------------------------------------------------|-----|--------|
| Type of the driving mechanism / motor drive                                             |     | No     |
| Design of the overcurrent release                                                       |     | TM     |
| 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                                                           | 1/s | 120    |
| Voltage                                                                                 |     |        |
| Rated operational voltage Ue / max.                                                     | V   | 690    |
| Insulation voltage                                                                      |     |        |
| • rated value                                                                           | V   | 800    |
| • at AC / rated value                                                                   | V   | 800    |

|                                                                                                     |    |                   |
|-----------------------------------------------------------------------------------------------------|----|-------------------|
| Surge voltage resistance / rated value                                                              | kV | 8                 |
| <b>Protection class</b>                                                                             |    |                   |
| <b>Protection class IP</b>                                                                          |    | IP20              |
| <b>Protective function of the overcurrent release</b>                                               |    | LI                |
| <b>Electricity</b>                                                                                  |    |                   |
| Continuous current / rated value                                                                    | A  | 400               |
| Derating temperature / for the rated value of the continuous current                                | °C | 50                |
| <b>Adjustable pick-up value current</b>                                                             |    |                   |
| • of the current-dependent overload release / Full-scale value                                      | A  | 400               |
| • of instantaneous short-circuit trip unit / initial value                                          | A  | 2 000             |
| • of instantaneous short-circuit trip unit / Full-scale value                                       | A  | 4 000             |
| <b>Main circuit</b>                                                                                 |    |                   |
| <b>Operating frequency</b>                                                                          |    |                   |
| • 1 / rated value                                                                                   | Hz | 50                |
| • 2 / rated value                                                                                   | Hz | 60                |
| <b>Operating voltage</b>                                                                            |    |                   |
| • for main current circuit / at AC / at 50 Hz / maximum                                             | V  | 690               |
| • for main current circuit / at AC / at 60 Hz / maximum                                             | V  | 690               |
| • for main current circuit / at DC / maximum                                                        | V  | 500               |
| <b>Operating current</b>                                                                            |    |                   |
| • at 40 °C / rated value                                                                            | A  | 400               |
| • at 50 °C / rated value                                                                            | A  | 400               |
| • at 55 °C / rated value                                                                            | A  | 372               |
| • at 60 °C / rated value                                                                            | A  | 372               |
| • at 65 °C / rated value                                                                            | A  | 344               |
| • at 70 °C / rated value                                                                            | A  | 344               |
| <b>Auxiliary circuit</b>                                                                            |    |                   |
| Number of CO contacts / for auxiliary contacts                                                      |    | 0                 |
| Number of NC contacts / for auxiliary contacts                                                      |    | 0                 |
| Number of NO contacts / for auxiliary contacts                                                      |    | 0                 |
| <b>Suitability</b>                                                                                  |    |                   |
| <b>Suitability for use</b>                                                                          |    | system protection |
| <b>Adjustable parameters</b>                                                                        |    |                   |
| <b>Adjustable pick-up value current / of the current-dependent overload release / initial value</b> | A  | 320               |

| Product details                                                  |    |                      |
|------------------------------------------------------------------|----|----------------------|
| <b>Product component</b>                                         |    |                      |
| • Trip indicator                                                 |    | No                   |
| • Auxiliary switch                                               |    | No                   |
| • Voltage trigger                                                |    | No                   |
| • 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                                  |    | adjustable           |
| • Ground fault protection                                        |    | No                   |
| • for neutral conductors / Short-circuit and overload proof      |    | No                   |
| • Overload protection                                            |    | Yes                  |
| Short circuit                                                    |    |                      |
| <b>Operational short-circuit current breaking capacity (Ics)</b> |    |                      |
| • at 240 V / rated value                                         | kA | 65                   |
| • at 415 V / rated value                                         | kA | 55                   |
| • at 500 V / rated value                                         | kA | 20                   |
| • at 690 V / rated value                                         | kA | 8                    |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |    |                      |
| • at 240 V / rated value                                         | kA | 65                   |
| • at 415 V / rated value                                         | kA | 55                   |
| • at 440 V / rated value                                         | kA | 35                   |
| • at 480 V / acc. to NEMA / rated value                          | kA | 35                   |
| • at 500 V / rated value                                         | kA | 25                   |
| • at 600 V / acc. to NEMA / rated value                          | kA | 20                   |
| • at 690 V / rated value                                         | kA | 15                   |
| 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>                                                    | mm | 279.5                |
| <b>Width</b>                                                     | mm | 139                  |
| <b>Depth</b>                                                     | mm | 163.5                |
| <b>Mounting type</b>                                             |    | fixed mounting       |
| Environmental conditions                                         |    |                      |

|                            |                              |    |     |
|----------------------------|------------------------------|----|-----|
| <b>Ambient temperature</b> | • during operation / minimum | °C | 0   |
|                            | • during operation / maximum | °C | 70  |
|                            | • during storage / minimum   | °C | -40 |
|                            | • during storage / maximum   | °C | 80  |

|                                   |  |                                      |
|-----------------------------------|--|--------------------------------------|
| <b>Certificates</b>               |  |                                      |
| <b>Certificate of suitability</b> |  | IEC, standard switching capacity (N) |
| <b>Equipment marking</b>          |  | Q                                    |
| • acc. to DIN EN 61346-2          |  |                                      |

|                                                                                          |                                                                                          |                                                                                          |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>General Product Approval</b>                                                          |                                                                                          | <b>EMC</b>                                                                               |
| <br>CCC | <br>CSA | <br>EAC |

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|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Declaration of Conformity</b>                                                              | <b>Test Certificates</b>                                           | <b>Shipping Approval</b>                                                                             |                                                                                          |                                                                                           |                                                                                            |
| <br>EG-Konf. | <a href="#">spezielle Prüfbescheinigungen</a><br><a href="#">n</a> | <br>BUREAU VERITAS | <br>DNV | <br>GL | <br>LRS |

|                                                                                            |                                                                                             |                                                                                             |                                   |                               |                         |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|-------------------------|
| <b>Shipping Approval</b>                                                                   | <b>other</b>                                                                                |                                                                                             |                                   |                               |                         |
| <br>PRS | <br>RINA | <br>RMRS | <a href="#">Umweltbestätigung</a> | <a href="#">Bestätigungen</a> | <a href="#">sonstig</a> |

## 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/3VL47401DC360AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL47401DC360AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL47401DC360AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL47401DC360AA0)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>

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