

circuit breaker VL250N standard breaking capacity  $I_{cu}=55kA$ , 415V AC 3-pole, line protection Electronic Trip Unit TM, LI  $I_n=200A$ , rated current  $I_R=160\dots200A$ , overload protection,  $I_l=1000\dots2000A$ , short-circuit protection without auxiliary release without auxiliary/alarm switch

| 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                                                          | 3VL3    |
| mechanical service life (switching cycles) / typical                                 | 20 000  |
| electrical endurance (switching cycles) / typical                                    | 10 000  |
| utilization category                                                                 | A       |
| performance class for circuit breaker                                                | N       |
| reference code / 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 $U_e$ / max.                                               | 690 V   |
| insulation voltage                                                                   |         |
| • rated value                                                                        | 800 V   |
| • at AC / rated value                                                                | 800 V   |
| surge voltage resistance / rated value                                               | 8 kV    |
| operating voltage                                                                    |         |
| • rated value / maximum                                                              | 690 V   |
| • 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   |
| Protection class                                                                     |         |
| protection class IP                                                                  | IP20    |
| protection function of the overcurrent release                                       | LI      |
| Current                                                                              |         |
| operational current                                                                  |         |
| • at 40 °C / rated value                                                             | 200 A   |
| • at 45 °C / rated value                                                             | 200 A   |
| • at 50 °C / rated value                                                             | 200 A   |
| • at 55 °C / rated value                                                             | 186 A   |
| • at 60 °C / rated value                                                             | 186 A   |
| • at 65 °C / rated value                                                             | 172 A   |
| • at 70 °C / rated value                                                             | 172 A   |
| continuous current / rated value                                                     | 200 A   |
| derating temperature / for the rated value of the continuous current                 | 50 °C   |
| adjustable current response value current                                            |         |
| • of the current-dependent overload release / full-scale value                       | 200 A   |
| • of instantaneous short-circuit trip unit / initial value                           | 1 000 A |
| • of instantaneous short-circuit trip unit / full-scale value                        | 2 000 A |
| Main circuit                                                                         |         |
| operating frequency                                                                  |         |

|                                                                                                               |                              |
|---------------------------------------------------------------------------------------------------------------|------------------------------|
| <ul style="list-style-type: none"> <li>• 1 / rated value</li> </ul>                                           | 50 Hz                        |
| <ul style="list-style-type: none"> <li>• 2 / rated value</li> </ul>                                           | 60 Hz                        |
| <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>                                                                                            |                              |
| suitability for use                                                                                           | system protection            |
| <b>Adjustable parameters</b>                                                                                  |                              |
| adjustable current response value current / of the current-dependent overload release / initial value         | 160 A                        |
| <b>Product details</b>                                                                                        |                              |
| product component                                                                                             |                              |
| <ul style="list-style-type: none"> <li>• trip indicator</li> </ul>                                            | No                           |
| <ul style="list-style-type: none"> <li>• auxiliary switch</li> </ul>                                          | No                           |
| <ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>                                           | No                           |
| <ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>                                      | No                           |
| <ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>                 | No                           |
| product extension / optional / motor drive                                                                    | Yes                          |
| <b>Product function</b>                                                                                       |                              |
| product function                                                                                              |                              |
| <ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> </ul>                             | adjustable                   |
| <ul style="list-style-type: none"> <li>• grounding protection</li> </ul>                                      | No                           |
| <ul style="list-style-type: none"> <li>• for neutral conductors / short-circuit and overload proof</li> </ul> | No                           |
| <ul style="list-style-type: none"> <li>• overload protection</li> </ul>                                       | Yes                          |
| <b>Short circuit</b>                                                                                          |                              |
| breaking capacity operating short-circuit current (Ics)                                                       |                              |
| <ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>                                    | 65 kA                        |
| <ul style="list-style-type: none"> <li>• at 415 V / rated value</li> </ul>                                    | 55 kA                        |
| <ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul>                                    | 20 kA                        |
| <ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul>                                    | 6 kA                         |
| breaking capacity maximum short-circuit current (Icu)                                                         |                              |
| <ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>                                    | 65 kA                        |
| <ul style="list-style-type: none"> <li>• at 415 V / rated value</li> </ul>                                    | 55 kA                        |
| <ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>                                    | 25 kA                        |
| <ul style="list-style-type: none"> <li>• at 480 V / acc. to NEMA / rated value</li> </ul>                     | 25 kA                        |
| <ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul>                                    | 25 kA                        |
| <ul style="list-style-type: none"> <li>• at 600 V / acc. to NEMA / rated value</li> </ul>                     | 12 kA                        |
| <ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul>                                    | 12 kA                        |
| <b>Connections</b>                                                                                            |                              |
| arrangement of electrical connectors / for main current circuit                                               | front side                   |
| type of connectable conductor cross-sections / for main contacts                                              |                              |
| <ul style="list-style-type: none"> <li>• with flexible busbar</li> </ul>                                      | 17 x 10 mm                   |
| <ul style="list-style-type: none"> <li>• solid</li> </ul>                                                     | 25 ... 185 mm <sup>2</sup>   |
| <ul style="list-style-type: none"> <li>• finely stranded / with core end processing</li> </ul>                | 25 ... 120 mm <sup>2</sup>   |
| <ul style="list-style-type: none"> <li>• stranded</li> </ul>                                                  | 25 ... 185 mm <sup>2</sup>   |
| type of connectable conductor cross-sections / for auxiliary contacts                                         |                              |
| <ul style="list-style-type: none"> <li>• solid</li> </ul>                                                     | 0.75 ... 1.5 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li>• finely stranded / with core end processing</li> </ul>                | 0,75 ... 1.0 mm <sup>2</sup> |
| type of electrical connection / for main current circuit                                                      | screw-type terminals         |
| <b>Mechanical Design</b>                                                                                      |                              |
| height                                                                                                        | 185.5 mm                     |
| width                                                                                                         | 104.5 mm                     |
| depth                                                                                                         | 106.5 mm                     |

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| fastening method                       | fixed mounting                       |
| <b>Environmental conditions</b>        |                                      |
| ambient temperature / during operation |                                      |
| • minimum                              | 0 °C                                 |
| • maximum                              | 70 °C                                |
| ambient temperature / during storage   |                                      |
| • minimum                              | -40 °C                               |
| • maximum                              | 80 °C                                |
| <b>Certificates</b>                    |                                      |
| certificate of suitability             | IEC, standard switching capacity (N) |
| reference code                         |                                      |
| • acc. to DIN EN 61346-2               | Q                                    |
| <b>General Product Approval</b>        | <b>EMC</b>                           |



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C-Tick

|                                  |                          |                          |  |  |  |
|----------------------------------|--------------------------|--------------------------|--|--|--|
| <b>Declaration of Conformity</b> | <b>Test Certificates</b> | <b>Marine / Shipping</b> |  |  |  |
|----------------------------------|--------------------------|--------------------------|--|--|--|



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PRS

|                          |              |  |  |  |  |
|--------------------------|--------------|--|--|--|--|
| <b>Marine / Shipping</b> | <b>other</b> |  |  |  |  |
|--------------------------|--------------|--|--|--|--|



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|              |
|--------------|
| <b>other</b> |
|--------------|

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|                            |
|----------------------------|
| <b>Further information</b> |
|----------------------------|

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL3720-1DC36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3720-1DC36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL3720-1DC36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3720-1DC36-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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

