

circuit breaker VL250N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Electronic Trip Unit TM, LI In=200A, rated current IR=160...200A, overload protection, II=1000...2000A, short-circuit protection Undervoltage release 220...250 V AC Auxiliary switch mounting kit 2 AUX (1 NO + 1 NC)

| 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 / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750                 | Q       |
| operating frequency / maximum                                                                                  | 120 1/s |
| Voltage                                                                                                        |         |
| Rated operational voltage Ue / max.                                                                            | 690 V   |
| <ul style="list-style-type: none"> <li>insulation voltage / rated value</li> </ul>                             | 800 V   |
| <ul style="list-style-type: none"> <li>insulation voltage (Ui) / at AC / rated value</li> </ul>                | 800 V   |
| surge voltage resistance / rated value                                                                         | 8 kV    |
| operating voltage                                                                                              |         |
| <ul style="list-style-type: none"> <li>rated value / maximum</li> </ul>                                        | 690 V   |
| <ul style="list-style-type: none"> <li>for main current circuit / at AC / at 50 Hz / maximum</li> </ul>        | 690 V   |
| <ul style="list-style-type: none"> <li>for main current circuit / at AC / at 60 Hz / maximum</li> </ul>        | 690 V   |
| <ul style="list-style-type: none"> <li>for main current circuit / at DC / maximum</li> </ul>                   | 500 V   |
| Protection class                                                                                               |         |
| protection class IP                                                                                            | IP20    |
| protection function of the overcurrent release                                                                 | LI      |
| Current                                                                                                        |         |
| operational current                                                                                            |         |
| <ul style="list-style-type: none"> <li>at 40 °C / rated value</li> </ul>                                       | 200 A   |
| <ul style="list-style-type: none"> <li>at 45 °C / rated value</li> </ul>                                       | 200 A   |
| <ul style="list-style-type: none"> <li>at 50 °C / rated value</li> </ul>                                       | 200 A   |
| <ul style="list-style-type: none"> <li>at 55 °C / rated value</li> </ul>                                       | 186 A   |
| <ul style="list-style-type: none"> <li>at 60 °C / rated value</li> </ul>                                       | 186 A   |
| <ul style="list-style-type: none"> <li>at 65 °C / rated value</li> </ul>                                       | 172 A   |
| <ul style="list-style-type: none"> <li>at 70 °C / rated value</li> </ul>                                       | 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                                                                      |         |
| <ul style="list-style-type: none"> <li>of the current-dependent overload release / full-scale value</li> </ul> | 200 A   |
| <ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / minimum</li> </ul>           | 1 000 A |
| <ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / maximum</li> </ul>           | 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                                                        | 1                            |
| number of NO contacts / for auxiliary contacts                                                        | 1                            |
| <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                                                                                     |                              |
| • trip indicator                                                                                      | No                           |
| • auxiliary switch                                                                                    | Yes                          |
| • voltage trigger                                                                                     | No                           |
| • undervoltage release                                                                                | Yes                          |
| • undervoltage release with leading contact                                                           | No                           |
| product extension / optional / motor drive                                                            | Yes                          |
| <b>Product function</b>                                                                               |                              |
| product function                                                                                      |                              |
| • of thermal overload trip unit                                                                       | adjustable                   |
| • grounding protection                                                                                | No                           |
| • for neutral conductors / short-circuit and overload proof                                           | No                           |
| • overload protection                                                                                 | Yes                          |
| <b>Short circuit</b>                                                                                  |                              |
| breaking capacity operating short-circuit current (Ics)                                               |                              |
| • 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                                                                              | 6 kA                         |
| breaking capacity maximum short-circuit current (Icu)                                                 |                              |
| • at 240 V / rated value                                                                              | 65 kA                        |
| • at 415 V / rated value                                                                              | 55 kA                        |
| • at 440 V / rated value                                                                              | 25 kA                        |
| • at 480 V / according to NEMA / rated value                                                          | 25 kA                        |
| • at 500 V / rated value                                                                              | 25 kA                        |
| • at 600 V / according to NEMA / rated value                                                          | 12 kA                        |
| • at 690 V / rated value                                                                              | 12 kA                        |
| <b>Connections</b>                                                                                    |                              |
| arrangement of electrical connectors / for main current circuit                                       | front side                   |
| type of connectable conductor cross-sections / for main contacts                                      |                              |
| • with flexible busbar                                                                                | 17 x 10 mm                   |
| • solid                                                                                               | 25 ... 185 mm <sup>2</sup>   |
| • finely stranded / with core end processing                                                          | 25 ... 120 mm <sup>2</sup>   |
| • stranded                                                                                            | 25 ... 185 mm <sup>2</sup>   |
| type of connectable conductor cross-sections / for auxiliary contacts                                 |                              |
| • solid                                                                                               | 0.75 ... 1.5 mm <sup>2</sup> |
| • finely stranded / with core end processing                                                          | 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>General Product Approval</b>      |        |

[Confirmation](#)



[Miscellaneous](#)

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| EMC | Declaration of Conformity | Test Certificates | Marine / Shipping                            |
|-----|---------------------------|-------------------|----------------------------------------------|
|     |                           | <br>EG-Konf.      | <br><a href="#">Special Test Certificate</a> |
|     |                           |                   | <br>ABS                                      |
|     |                           |                   | <br>BUREAU VERITAS                           |

| Marine / Shipping | other                         |
|-------------------|-------------------------------|
| <br>LRS           | <br>PRS                       |
| <br>RINA          | <br>RMRS                      |
| <br>DNV-GL        | <br>DNV-GL                    |
|                   | <a href="#">Miscellaneous</a> |

| other                                                                                                  |
|--------------------------------------------------------------------------------------------------------|
| <a href="#">Confirmation</a> <a href="#">Environmental Confirmations</a> <a href="#">Miscellaneous</a> |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a><br><b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL3720-1DC36-2HB1">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL3720-1DC36-2HB1</a><br><b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3VL3720-1DC36-2HB1">https://support.industry.siemens.com/cs/ww/en/ps/3VL3720-1DC36-2HB1</a><br><b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3720-1DC36-2HB1">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3720-1DC36-2HB1</a><br><b>CAX-Online-Generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><b>Tender specifications</b><br><a href="http://www.siemens.com/specifications">http://www.siemens.com/specifications</a> |



