



Figure similar

circuit breaker VL160N without Electronic Trip Unit standard breaking capacity Icu=55kA/415V AC, 3-pole In<= 160A, rated current without auxiliary release with box terminals for switching unit and Electronic Trip Unit

| Model                                                                                |         |
|--------------------------------------------------------------------------------------|---------|
| type of the driving mechanism / motor drive                                          | No      |
| General technical data                                                               |         |
| number of poles                                                                      | 3       |
| size of the circuit-breaker                                                          | 3VL2    |
| mechanical service life (operating 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 Ue / 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   |
| Protection class                                                                     |         |
| protection class IP                                                                  | IP20    |
| Current                                                                              |         |
| operational current                                                                  |         |
| • at 40 °C / rated value                                                             | 160 A   |
| • at 45 °C / rated value                                                             | 160 A   |
| • at 50 °C / rated value                                                             | 160 A   |
| • at 55 °C / rated value                                                             | 148.8 A |
| • at 60 °C / rated value                                                             | 148.8 A |
| • at 65 °C / rated value                                                             | 137.6 A |
| • at 70 °C / rated value                                                             | 137.6 A |
| continuous current / rated value                                                     | 160 A   |
| derating temperature / for the rated value of the continuous current                 | 50 °C   |
| • acc. to UL 489                                                                     | 40 °C   |

|                                                                 |  |                |                          |
|-----------------------------------------------------------------|--|----------------|--------------------------|
| <b>Main circuit</b>                                             |  |                |                          |
| operating frequency                                             |  |                |                          |
| • 1 / rated value                                               |  | 50 Hz          |                          |
| • 2 / rated value                                               |  | 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>Product details</b>                                          |  |                |                          |
| product component                                               |  |                |                          |
| • trip indicator                                                |  | No             |                          |
| • auxiliary switch                                              |  | No             |                          |
| • voltage trigger                                               |  | No             |                          |
| • undervoltage release                                          |  | No             |                          |
| • undervoltage release with leading contact                     |  | No             |                          |
| product extension / optional / motor drive                      |  | Yes            |                          |
| <b>Product function</b>                                         |  |                |                          |
| product function                                                |  |                |                          |
| • of thermal overload trip unit                                 |  | without        |                          |
| • grounding protection                                          |  | No             |                          |
| • for neutral conductors / short-circuit and overload proof     |  | No             |                          |
| • overload protection                                           |  | No             |                          |
| <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 / acc. to NEMA / rated value                         |  | 25 kA          |                          |
| • at 500 V / rated value                                        |  | 25 kA          |                          |
| • at 600 V / acc. 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 electrical connection / for main current circuit        |  | box terminal   |                          |
| <b>Mechanical Design</b>                                        |  |                |                          |
| height                                                          |  | 174.5 mm       |                          |
| width                                                           |  | 104.5 mm       |                          |
| depth                                                           |  | 106.5 mm       |                          |
| fastening method                                                |  | fixed mounting |                          |
| <b>Environmental conditions</b>                                 |  |                |                          |
| ambient temperature / during operation                          |  |                |                          |
| • minimum                                                       |  | -25 °C         |                          |
| • maximum                                                       |  | 70 °C          |                          |
| ambient temperature / during storage                            |  |                |                          |
| • minimum                                                       |  | -40 °C         |                          |
| • maximum                                                       |  | 80 °C          |                          |
| <b>General Product Approval</b>                                 |  | <b>EMC</b>     | <b>Test Certificates</b> |



[Miscellaneous](#)

[TSE](#)



[Special Test Certificate](#)

#### Marine / Shipping



#### other

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[Confirmation](#)

[Environmental Confirmations](#)

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#### Further information

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=3VL2716-1AA33-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2716-1AA33-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL2716-1AA33-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-1AA33-0AA0)

CAX-Online-Generator

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

Tender specifications

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

