

circuit breaker VL800N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection trip unit ETU12, LIG 3 phases/3 lines In=800A, rated current IR=320...800A, overload protection, II=1.25 to 8 xIn, short-circuit protection without auxiliary release without auxiliary/alarm switch

| Model | |
|--|-------------------|
| type of the driving mechanism motor drive | No |
| design of the overcurrent release | ETU12 |
| General technical data | |
| number of poles | 3 |
| size of the circuit-breaker | 3VL6 |
| mechanical service life (operating cycles) typical | 10 000 |
| electrical endurance (operating cycles) typical | 3 000 |
| 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 | 60 1/s |
| Voltage | |
| Rated operational voltage Ue max. | 690 V |
| <ul style="list-style-type: none"> insulation voltage rated value insulation voltage (Ui) at AC rated value | 800 V |
| surge voltage resistance rated value | 8 kV |
| operating voltage <ul style="list-style-type: none"> rated value maximum for main current circuit at AC at 50 Hz maximum for main current circuit at AC at 60 Hz maximum | 690 V |
| Protection class | |
| protection class IP | IP20 |
| protection function of the overcurrent release | LIG |
| Main circuit | |
| operating frequency <ul style="list-style-type: none"> 1 rated value 2 rated value | 50 Hz |
| | 60 Hz |
| Auxiliary circuit | |
| number of CO contacts for auxiliary contacts | 0 |
| number of NC contacts for auxiliary contacts | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| Suitability | |
| suitability for use | system protection |
| Adjustable parameters | |
| adjustable current response value current of the current-dependent overload release initial value | 320 A |
| Product details | |
| product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact | No |
| | No |
| | No |
| | No |
| | No |
| product extension optional motor drive | Yes |
| Product function | |
| product function <ul style="list-style-type: none"> of thermal overload trip unit | adjustable |

- grounding protection
- for neutral conductors short-circuit and overload proof
- overload protection

Yes
No
Yes

Short circuit

| | |
|---|-------|
| operating short-circuit current breaking capacity (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 | 10 kA |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V rated value | 65 kA |
| • at 415 V rated value | 55 kA |
| • at 440 V rated value | 35 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 | 20 kA |
| • at 690 V rated value | 20 kA |

Connections

| | |
|---|------------------------------|
| arrangement of electrical connectors for main current circuit | front side |
| type of connectable conductor cross-sections for auxiliary contacts | |
| • solid | 0.75 ... 1.5 mm ² |
| • finely stranded with core end processing | 0,75 ... 1.0 mm ² |
| type of electrical connection for main current circuit | screw-type terminals |

Mechanical Design

| | |
|------------------|----------------|
| height | 406.5 mm |
| width | 190 mm |
| depth | 176.5 mm |
| fastening method | fixed mounting |

Environmental conditions

| | |
|--------------------------------------|--------|
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 70 °C |
| ambient temperature during storage | |
| • minimum | -40 °C |
| • maximum | 80 °C |

Approvals Certificates

| | | |
|--------------------------|-----|-------------------|
| General Product Approval | EMV | Test Certificates |
|--------------------------|-----|-------------------|



[Miscellaneous](#)



[Type Test Certificates/Test Report](#)

| | | |
|-------------------|-------|-------------|
| Marine / Shipping | other | Environment |
|-------------------|-------|-------------|



[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)



[Environmental Confirmations](#)

Further information

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
 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=3VL6780-1SL36-0AA0>
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3VL6780-1SL36-0AA0>
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-1SL36-0AA0
 CAX-Online-Generator

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