

circuit breaker VL400N standard breaking capacity $I_{cu}=55kA$, 415V AC 4-pole, non-auto. air circ. br. trip unit magnetic $I_n=400A$, rated current $I=4000A$, short-circuit protection without auxiliary release without auxiliary/alarm switch

| Model | |
|--|---|
| type of the driving mechanism motor drive | No |
| design of the overcurrent release | M |
| General technical data | |
| number of poles | 4 |
| size of the circuit-breaker | 3VL4 |
| mechanical service life (operating cycles) typical | 20 000 |
| electrical endurance (operating 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 U_e max. | 690 V |
| <ul style="list-style-type: none"> insulation voltage rated value insulation voltage (U_i) 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 for main current circuit at DC maximum | 690 V 690 V 690 V 500 V |
| Protection class | |
| protection class IP | IP20 |
| protection function of the overcurrent release | I |
| Current | |
| operational current | |
| <ul style="list-style-type: none"> at 40 °C rated value at 45 °C rated value at 50 °C rated value at 55 °C rated value at 60 °C rated value at 65 °C rated value at 70 °C rated value | 400 A 400 A 400 A 372 A 372 A 344 A 344 A |
| continuous current rated value | 400 A |
| derating temperature for the rated value of the continuous current | 50 °C |
| adjustable current response value current | |
| <ul style="list-style-type: none"> of instantaneous short-circuit trip unit minimum of instantaneous short-circuit trip unit maximum | 4 000 A 4 000 A |
| 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 | | non-automatic circuit-breakers | |
|---|--|--------------------------------|---------------------------|
| Product details | | | |
| 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 | |
| Product function | | | |
| product function | | | |
| • of thermal overload trip unit | | without | |
| • grounding protection | | No | |
| • for neutral conductors short-circuit and overload proof | | No | |
| • overload protection | | No | |
| 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 | | 8 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 | | 35 kA | |
| • at 500 V rated value | | 25 kA | |
| • at 600 V according to NEMA rated value | | 20 kA | |
| • at 690 V rated value | | 15 kA | |
| Connections | | | |
| arrangement of electrical connectors for main current circuit | | front side | |
| type of connectable conductor cross-sections for main contacts | | | |
| • with flexible busbar | | 25 x 10 | |
| • solid | | 50 ... 300 mm ² | |
| • finely stranded with core end processing | | 50 ... 240 mm ² | |
| • stranded | | 50 ... 300 mm ² | |
| 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 | | 279.5 mm | |
| width | | 183.5 mm | |
| depth | | 163.5 mm | |
| fastening method | | fixed mounting | |
| Environmental conditions | | | |
| ambient temperature during operation | | | |
| • minimum | | 0 °C | |
| • maximum | | 70 °C | |
| ambient temperature during storage | | | |
| • minimum | | -40 °C | |
| • maximum | | 80 °C | |
| General Product Approval | | EMC | Declaration of Conformity |

[Confirmation](#)

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[KC](#)



| Declaration of Conformity | Test Certificates | Marine / Shipping | | | |
|---------------------------|-------------------|-------------------|--|--|--|
|---------------------------|-------------------|-------------------|--|--|--|



[Special Test Certificate](#)



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



[Miscellaneous](#)

[Confirmation](#)

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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?mfb=3VL4740-1EE46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4740-1EE46-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL4740-1EE46-0AA0

CAX-Online-Generator

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

Tender specifications

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



