












circuit breaker VL630H high breaking capacity Icu=70kA, 415V AC 4-pole, line protection TU, TM, LI In=500A, rated current IR=400...500A, overload prot. II=2500...5000A, short-circuit protection N protected (100%) 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 | 4 |
| size of the circuit-breaker | 3VL5 |
| mechanical service life (operating cycles) typical | 10 000 |
| electrical endurance (operating cycles) typical | 5 000 |
| 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 | LIN |
| 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 | 400 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 |

| | |
|---|--|
| <ul style="list-style-type: none"> • grounding protection • for neutral conductors short-circuit and overload proof • overload protection | No Yes Yes |
| Short circuit | |
| operating short-circuit current breaking capacity (Ics) | |
| <ul style="list-style-type: none"> • at 240 V rated value • at 415 V rated value • at 500 V rated value • at 690 V rated value | 75 kA 70 kA 30 kA 10 kA |
| maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> • at 240 V rated value • at 415 V rated value • at 440 V rated value • at 480 V according to NEMA rated value • at 500 V rated value • at 600 V according to NEMA rated value • at 690 V rated value | 100 kA 70 kA 50 kA 50 kA 40 kA 30 kA 20 kA |
| Connections | |
| arrangement of electrical connectors for main current circuit | front side |
| type of connectable conductor cross-sections for auxiliary contacts | |
| <ul style="list-style-type: none"> • solid • finely stranded with core end processing | 0.75 ... 1.5 mm ² 0,75 ... 1.0 mm ² |
| type of electrical connection for main current circuit | screw-type terminals |
| Mechanical Design | |
| height | 279.5 mm |
| width | 253.5 mm |
| depth | 138.5 mm |
| fastening method | fixed mounting |
| Environmental conditions | |
| ambient temperature during operation | |
| <ul style="list-style-type: none"> • minimum • maximum | 0 °C 70 °C |
| ambient temperature during storage | |
| <ul style="list-style-type: none"> • minimum • maximum | -40 °C 80 °C |
| Approvals Certificates | |
| General Product Approval | |
| For use in hazardous locations | |
| <div>   Confirmation    </div> | |
| Test Certificates | |
| Marine / Shipping | |
| <div> Type Test Certificates/Test Report Special Test Certificate     </div> | |
| Marine / Shipping | |
| other | |
| <div>   Confirmation </div> | |
| 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=3VL5750-2EM46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5750-2EM46-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5750-2EM46-0AA0

CAX-Online-Generator

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

Tender specifications

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

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