

circuit breaker VL630H high breaking capacity Icu=70kA, 415V AC 4-pole, line protection TU, TM, LI In=630A, rated current IR=500...630A, overload prot. II=3150...6300A, 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"> <li>insulation voltage rated value</li> <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> <li>for main current circuit at AC at 50 Hz maximum</li> <li>for main current circuit at AC at 60 Hz maximum</li> </ul>              | 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"> <li>1 rated value</li> <li>2 rated value</li> </ul>   | 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  | 504 A             |
| Product details  |                   |
| product component <ul style="list-style-type: none"> <li>trip indicator</li> <li>auxiliary switch</li> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> </ul> | No                |
|  | No                |
|  | No                |
|  | No                |
|  | No                |
| product extension optional motor drive   | Yes               |
| Product function   |                   |
| product function <ul style="list-style-type: none"> <li>of thermal overload trip unit</li> </ul>   | adjustable        |

|   |     |
|---|-----|
| • grounding protection                                    | No  |
| • for neutral conductors short-circuit and overload proof | Yes |
| • overload protection                                     | Yes |

#### Short circuit

|   |        |
|---|--------|
| operating short-circuit current breaking capacity (Ics) |        |
| • at 240 V rated value                                  | 75 kA  |
| • at 415 V rated value                                  | 70 kA  |
| • at 500 V rated value                                  | 30 kA  |
| • at 690 V rated value                                  | 10 kA  |
| maximum short-circuit current breaking capacity (Icu)   |        |
| • at 240 V rated value                                  | 100 kA |
| • at 415 V rated value                                  | 70 kA  |
| • at 440 V rated value                                  | 50 kA  |
| • at 480 V according to NEMA rated value                | 50 kA  |
| • at 500 V rated value                                  | 40 kA  |
| • at 600 V according to NEMA rated value                | 30 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 <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         |

#### Mechanical Design

|                  |                |
|------------------|----------------|
| height           | 279.5 mm       |
| width            | 253.5 mm       |
| depth            | 138.5 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  |

#### Approvals Certificates

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

[Confirmation](#)



EG-Konf.



CCC



[Special Test Certificate](#)

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



LRS



RINA



RMRS

[Miscellaneous](#)

[Confirmation](#)

| other | Environment |
|-------|-------------|
|-------|-------------|

[Miscellaneous](#)

[Environmental Confirmations](#)

[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=3VL5763-2EM46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-2EM46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL5763-2EM46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-2EM46-0AA0)

CAX-Online-Generator

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

Tender specifications

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

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