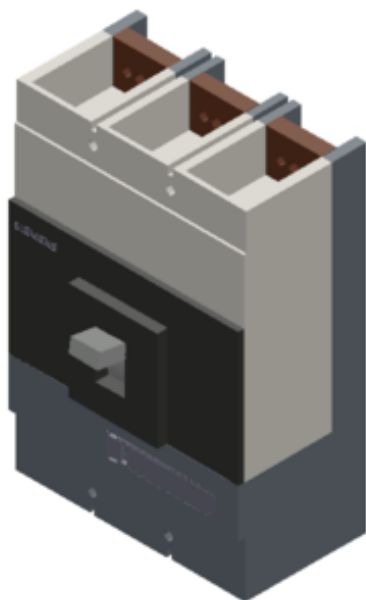


CIRCUIT-BREAKER VL 630H HIGH BREAKING CAPACITY  
 ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC  
 TRIP UNIT ETU20, LSI IN=630A, RATED CURRENT IR=252-630A,  
 OVERLOAD ISD=1,5TO9XIR, II=10XIN SHORT-CIRCUIT



| Model                                                                                   |        |
|-----------------------------------------------------------------------------------------|--------|
| Type of the driving mechanism / motor drive                                             | No     |
| Design of the overcurrent release                                                       | ETU20  |
| General technical data                                                                  |        |
| Number of poles                                                                         | 3      |
| Size of the circuit-breaker                                                             | 3VL5   |
| Electrical endurance (switching cycles) / typical                                       | 5 000  |
| Usage category                                                                          | A      |
| Performance class for circuit breaker                                                   | N      |
| Mechanical service life (switching cycles) / typical                                    | 10 000 |
| Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | Q      |
| Operating frequency / maximum                                                           | 60 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                        |
| <b>Protection class</b>                                                                      |                             |
| Protection class IP                                                                          | IP20                        |
| Protective function of the overcurrent release                                               | LSI                         |
| <b>Dissipation</b>                                                                           |                             |
| Power loss [W]                                                                               |                             |
| • maximum                                                                                    | 160 W                       |
| <b>Electricity</b>                                                                           |                             |
| Continuous current / rated value                                                             | 630 A                       |
| Derating temperature / for the rated value of the continuous current                         | 50 °C                       |
| Adjustable pick-up value current                                                             |                             |
| • of the current-dependent overload release / Full-scale value                               | 630 A                       |
| • of instantaneous short-circuit trip unit / initial value                                   | 6 300 A                     |
| • of instantaneous short-circuit trip unit / Full-scale value                                | 6 300 A                     |
| <b>Main circuit</b>                                                                          |                             |
| Operating frequency                                                                          |                             |
| • 1 / rated value                                                                            | 50 Hz                       |
| • 2 / rated value                                                                            | 60 Hz                       |
| Operating voltage                                                                            |                             |
| • for main current circuit / at AC / at 50 Hz / maximum                                      | 690 V                       |
| • for main current circuit / at AC / at 60 Hz / maximum                                      | 690 V                       |
| Operating current                                                                            |                             |
| • at 40 °C / rated value                                                                     | 630 A                       |
| • at 50 °C / rated value                                                                     | 630 A                       |
| • at 55 °C / rated value                                                                     | 598.5 A                     |
| • at 60 °C / rated value                                                                     | 598.5 A                     |
| • at 65 °C / rated value                                                                     | 504 A                       |
| • at 70 °C / rated value                                                                     | 504 A                       |
| <b>Suitability</b>                                                                           |                             |
| Suitability for use                                                                          | system/generator protection |
| <b>Adjustable parameters</b>                                                                 |                             |
| Adjustable pick-up value current / of the current-dependent overload release / initial value | 252 A                       |
| <b>Product details</b>                                                                       |                             |
| Product component                                                                            |                             |

|                                             |     |
|---------------------------------------------|-----|
| • Trip indicator                            | Yes |
| • Auxiliary switch                          | Yes |
| • Voltage trigger                           | Yes |
| • undervoltage release                      | No  |
| • undervoltage release with leading contact | No  |
| Product extension / optional / motor drive  | Yes |

## Product function

|                                                             |            |
|-------------------------------------------------------------|------------|
| <b>Product function</b>                                     |            |
| • of thermal overload trip unit                             | adjustable |
| • Ground fault protection                                   | No         |
| • for neutral conductors / Short-circuit and overload proof | No         |
| • Overload protection                                       | Yes        |

## Short circuit

|                                                                  |        |
|------------------------------------------------------------------|--------|
| <b>Operational short-circuit current breaking capacity (Ics)</b> |        |
| • 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  |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |        |
| • at 240 V / rated value                                         | 100 kA |
| • at 415 V / rated value                                         | 70 kA  |
| • at 440 V / rated value                                         | 50 kA  |
| • at 480 V / acc. to NEMA / rated value                          | 50 kA  |
| • at 500 V / rated value                                         | 40 kA  |
| • at 600 V / acc. 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 electrical connection / for main current circuit        | screw-type terminals |

## Mechanical Design

|                      |                |
|----------------------|----------------|
| <b>Height</b>        | 279.5 mm       |
| <b>Width</b>         | 190 mm         |
| <b>Depth</b>         | 138.5 mm       |
| <b>Mounting type</b> | fixed mounting |

## Environmental conditions

|                              |        |
|------------------------------|--------|
| <b>Ambient temperature</b>   |        |
| • during operation / minimum | -25 °C |

- during operation / maximum
- during storage / minimum
- during storage / maximum

70 °C  
-40 °C  
80 °C

#### Certificates

|                                   |                                  |                                  |  |
|-----------------------------------|----------------------------------|----------------------------------|--|
| <b>Certificate of suitability</b> | IEC, high switching capacity (H) |                                  |  |
| <b>Equipment marking</b>          | Q                                |                                  |  |
| • acc. to DIN EN 61346-2          |                                  |                                  |  |
| <b>General Product Approval</b>   | <b>EMC</b>                       | <b>Declaration of Conformity</b> |  |



CCC

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[TSE](#)



C-Tick



EG-Konf.

|                          |                          |              |  |  |
|--------------------------|--------------------------|--------------|--|--|
| <b>Test Certificates</b> | <b>Shipping Approval</b> | <b>other</b> |  |  |
|--------------------------|--------------------------|--------------|--|--|

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#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL5763-2SE36-8TE1>

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

<http://support.automation.siemens.com/WW/view/en/3VL5763-2SE36-8TE1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL5763-2SE36-8TE1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-2SE36-8TE1)

##### CAX-Online-Generator

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

##### Tender specifications

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