



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 |
| Tripping characteristics / Upper tolerance band | | AK_VL_ETU12_LIG_u.txt |
| Tripping characteristics / Lower tolerance band | | AK_VL_ETU22_LSIGN_o.txt |
| 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 | 1/s | 60 |
| Voltage | | |
| Rated operational voltage Ue / max. | V | 690 |
| Insulation voltage | | |

| | | |
|--|----|-----|
| • Rated value | V | 800 |
| • at AC / Rated value | V | 800 |
| Surge voltage resistance / Rated value | kV | 8 |

Protection class

| | | |
|---|--|------|
| Protection class IP | | IP20 |
| Protective function of the overcurrent release | | LSI |

Dissipation

| | | |
|--------------------------|---|-----|
| Active power loss | | |
| • maximum | W | 160 |

Electricity

| | | |
|--|----|-------|
| Continuous current / Rated value | A | 630 |
| Derating temperature / for the rated value of the continuous current | °C | 50 |
| Adjustable response value current | | |
| • of the current-dependent overload release / Full-scale value | A | 630 |
| • of the instantaneous short-circuit release / initial value | A | 6 300 |
| • of the instantaneous short-circuit release / Full-scale value | A | 6 300 |

Main circuit

| | | |
|---|----|-------|
| Operating frequency | | |
| • 1 / Rated value | Hz | 50 |
| • 2 / Rated value | Hz | 60 |
| Operating voltage | | |
| • for main current circuit / at AC / at 50 Hz / maximum | V | 690 |
| • for main current circuit / at AC / at 60 Hz / maximum | V | 690 |
| Operating current | | |
| • at 40 °C / Rated value | A | 630 |
| • at 50 °C / Rated value | A | 630 |
| • at 55 °C / Rated value | A | 598.5 |
| • at 60 °C / Rated value | A | 598.5 |
| • at 65 °C / Rated value | A | 504 |
| • at 70 °C / Rated value | A | 504 |

Auxiliary circuit

| | | |
|--|--|---|
| Number of CO contacts / for auxiliary contacts | | 0 |
| Number of NC contacts / for auxiliary contacts | | 1 |
| Number of NO contacts / for auxiliary contacts | | 2 |

Suitability

| | | |
|---|----|------------------------------|
| Suitability for use | | system/generator protection |
| Adjustable parameters | | |
| Adjustable response value current / of the current-dependent overload release / initial value | A | 252 |
| Product details | | |
| Product component | | |
| • Trip indicator | | Yes |
| • Auxiliary switch | | Yes |
| • Voltage trigger | | No |
| • undervoltage release | | No |
| • undervoltage release with leading contact | | No |
| Product expansion / optional / motor drive | | Yes |
| Product function | | |
| Product function | | |
| • of the thermal overload release | | adjustable |
| • Ground fault protection | | No |
| • for neutral conductors / Short-circuit and overload proof | | No |
| • overload protection | | Yes |
| Short circuit | | |
| Operational short-circuit current breaking capacity (Ics) | | |
| • at 240 V / Rated value | kA | 75 |
| • at 415 V / Rated value | kA | 70 |
| • at 500 V / Rated value | kA | 30 |
| • at 690 V / Rated value | kA | 10 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / Rated value | kA | 100 |
| • at 415 V / Rated value | kA | 70 |
| • at 440 V / Rated value | kA | 50 |
| • at 480 V / acc. to NEMA / Rated value | kA | 50 |
| • at 500 V / Rated value | kA | 40 |
| • at 600 V / acc. to NEMA / Rated value | kA | 30 |
| • at 690 V / Rated value | kA | 20 |
| Connections | | |
| Arrangement of electrical connectors / for main current circuit | | front side |
| Type of connectable conductor cross-section | | |
| • 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 | mm | 279.5 |
| Width | mm | 190 |
| Depth | mm | 138.5 |
| Mounting type | | fixed mounting |

Environmental conditions

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

Certificates

| | | |
|-----------------------------------|--|----------------------------------|
| Certificate of suitability | | IEC, high switching capacity (H) |
| Equipment marking | | |
| • acc. to DIN EN 61346-2 | | Q |

| | | |
|---------------------------------|------------|----------------------------------|
| General Product Approval | EMC | Declaration of Conformity |
|---------------------------------|------------|----------------------------------|



[sonstig](#)



[TSE](#)



| | | |
|--------------------------|--------------------------|--------------|
| Test Certificates | Shipping Approval | other |
|--------------------------|--------------------------|--------------|

[spezielle Prüfbescheinigung](#)
[n](#)



[sonstig](#)

| |
|--------------|
| other |
|--------------|

[Umweltbestätigung](#) [Bestätigungen](#)

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/3VL57632SE360AE1>

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

<http://support.automation.siemens.com/WW/view/en/3VL57632SE360AE1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL57632SE360AE1

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

last modified:

13.08.2015