

circuit breaker VL630N standard breaking capacity I_{cu}=55kA, 415V AC 3-pole, line protection trip unit ETU20, LSI I_n=630A, rated current I_R=252...630A, overload protection, ISD=1.5 to 9xI_R, II=10xI_N short-circuit protection without auxiliary release Auxiliary/alarm switch mounting kit 2 AUX (1 NO+1 NC)+1 AS (1 NO)

| 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 |
| 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 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 | 690 V |
| Protection class | |
| protection class IP | IP20 |
| protection function of the overcurrent release | LSI |
| 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 | 1 |
| number of NO contacts for auxiliary contacts | 2 |
| Suitability | |
| suitability for use | system/generator protection |
| Adjustable parameters | |
| adjustable current response value current of the current-dependent overload release initial value | 252 A |
| Product details | |
| product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact | Yes |
| | Yes |
| | 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 |

- grounding protection
- for neutral conductors short-circuit and overload proof
- overload protection

No
No
Yes

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 | 10 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 | 25 kA |
| • at 500 V rated value | 25 kA |
| • at 600 V according to NEMA rated value | 20 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 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 | 190 mm |
| depth | 138.5 mm |
| fastening method | fixed mounting |

Environmental conditions

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

General Product Approval

EMC



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Declaration of Conformity

Test Certificates

Marine / Shipping



EG-Konf.

[Special Test Certificate](#)



RINA



RMRS



DNV-GL

other

Environment

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Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>
 Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VL5763-1SE36-0AE1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-1SE36-0AE1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5763-1SE36-0AE1

CAX-Online-Generator

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

Tender specifications

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

last modified:

4/4/2020 

