



CIRCUIT-BREAKER VL 400L VERY HIGH BREAKING CAPACITY R.U.S.-C.BR.C.= 100 KA, 415V AC 3-POLE, MOTOR PROTECTION ELECTRONIC TRIP UNIT ETU30M, LI IN=315A, RATED CURRENT TC= 10A ... 30, TIME LAG CLASS II= 6 ... 11 X IN, SHORT-CIRCUIT PROTECTION

| Model | | |
|---|-----|--------|
| Type of the driving mechanism / motor drive | | No |
| Design of the overcurrent release | | ETU30M |
| General technical data | | |
| Number of poles | | 3 |
| Size of the circuit-breaker | | 3VL4 |
| Electrical endurance (switching cycles) / typical | | 10 000 |
| Usage category | | A |
| Performance class for circuit breaker | | N |
| Mechanical service life (switching cycles) / typical | | 20 000 |
| Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | | Q |
| Operating frequency / maximum | 1/s | 120 |
| Voltage | | |
| Rated operational voltage U_e / 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 | | LI |
| Dissipation | | |
| Power loss [W] | | |
| • maximum | W | 60 |
| Electricity | | |
| Continuous current / rated value | A | 315 |
| 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 | 315 |
| • of the instantaneous short-circuit release / initial value | A | 1 890 |
| • of the instantaneous short-circuit release / Full-scale value | A | 3 465 |
| Main circuit | | |
| Operating frequency | | |
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |
| Operating power / at AC-3 | | |
| • at 230 V / rated value | kW | 57.9 |
| • at 400 V / rated value | kW | 174.6 |
| 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 |
| • for main current circuit / at DC / maximum | V | 500 |
| Operating current | | |
| • at 40 °C / rated value | A | 315 |
| • at 50 °C / rated value | A | 315 |
| • at 55 °C / rated value | A | 299.3 |
| • at 60 °C / rated value | A | 299.3 |
| • at 65 °C / rated value | A | 252 |
| • at 70 °C / rated value | A | 252 |
| 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 | | Motor Protection |
|---------------------|--|------------------|

Adjustable parameters

| | | |
|---|---|-----|
| Adjustable response value current / of the current-dependent overload release / initial value | A | 126 |
|---|---|-----|

Product details

| | | |
|---|--|-----|
| Product component | | |
| • Trip indicator | | No |
| • Auxiliary switch | | No |
| • 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 | 150 |
| • at 415 V / rated value | kA | 75 |
| • at 500 V / rated value | kA | 38 |
| • at 690 V / rated value | kA | 8 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / rated value | kA | 200 |
| • at 415 V / rated value | kA | 100 |
| • at 440 V / rated value | kA | 75 |
| • at 480 V / acc. to NEMA / rated value | kA | 75 |
| • at 500 V / rated value | kA | 50 |
| • at 600 V / acc. to NEMA / rated value | kA | 20 |
| • at 690 V / rated value | kA | 15 |

Connections

| | | |
|---|--|------------|
| Arrangement of electrical connectors / for main current circuit | | front side |
| Type of connectable conductor cross-sections | | |

| | |
|---|---|
| <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — with flexible busbar — solid — finely stranded / with core end processing — stranded • for auxiliary contacts <ul style="list-style-type: none"> — solid — finely stranded / with core end processing | 25 x 10 50 ... 300 mm ² 50 ... 240 mm ² 50 ... 300 mm ² 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 | mm | 279.5 |
| Width | mm | 139 |
| Depth | mm | 163.5 |
| Mounting type | | fixed mounting |

Environmental conditions

| | | |
|--|----------------------|------------------------|
| Ambient temperature | | |
| <ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum | °C °C °C °C | -25 70 -40 80 |

Certificates

| | | |
|--|--|---------------------------------------|
| Certificate of suitability | | IEC, very high switching capacity (L) |
| Equipment marking | | |
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 | | Q |

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



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

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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/3VL47313SS360AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL47313SS360AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL47313SS360AA0

CAX-Online-Generator

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

Tender specifications

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

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