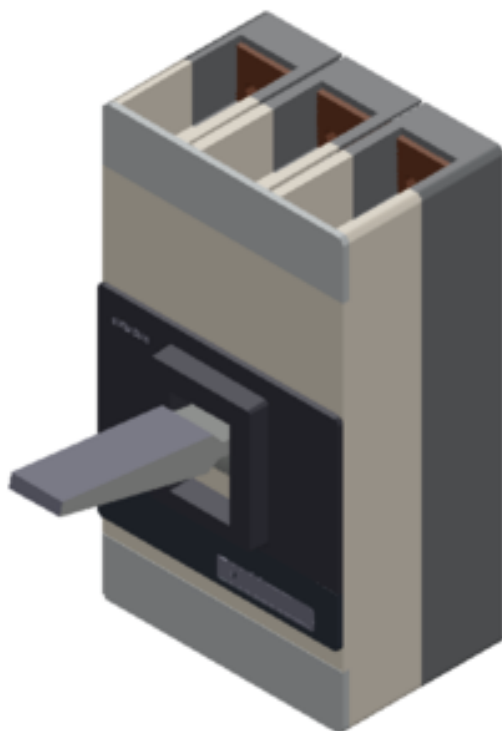




CIRCUIT-BREAKER VL 1250N STANDARD  
 BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE,  
 LINE PROTECTION ELECTRONIC TRIP UNIT ETU10,  
 LI IN=1000A, RATED CURRENT IR=400-1000A,  
 OVERLOAD II=1,25TO11XIN, SHORT CIRCUIT

| Model                                                                                   |     |       |
|-----------------------------------------------------------------------------------------|-----|-------|
| Type of the driving mechanism / motor drive                                             |     | No    |
| Design of the overcurrent release                                                       |     | ETU10 |
| General technical data                                                                  |     |       |
| Number of poles                                                                         |     | 3     |
| Size of the circuit-breaker                                                             |     | 3VL7  |
| Electrical endurance (switching cycles) / typical                                       |     | 1 500 |
| Usage category                                                                          |     | A     |
| Performance class for circuit breaker                                                   |     | N     |
| Mechanical service life (switching cycles) / typical                                    |     | 3 000 |
| Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 |     | Q     |
| Operating frequency / maximum                                                           | 1/s | 30    |
| 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                 |
| <b>Protection class</b>                                                                      |    |                   |
| Protection class IP                                                                          |    | IP20              |
| Protective function of the overcurrent release                                               |    | LI                |
| <b>Electricity</b>                                                                           |    |                   |
| Continuous current / rated value                                                             | A  | 1 000             |
| Derating temperature / for the rated value of the continuous current                         | °C | 50                |
| Adjustable pick-up value current                                                             |    |                   |
| • of the current-dependent overload release / Full-scale value                               | A  | 1 000             |
| • of instantaneous short-circuit trip unit / initial value                                   | A  | 1 250             |
| • of instantaneous short-circuit trip unit / Full-scale value                                | A  | 11 000            |
| <b>Main circuit</b>                                                                          |    |                   |
| 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  | 1 000             |
| • at 50 °C / rated value                                                                     | A  | 1 000             |
| • at 55 °C / rated value                                                                     | A  | 950               |
| • at 60 °C / rated value                                                                     | A  | 950               |
| • at 65 °C / rated value                                                                     | A  | 800               |
| • at 70 °C / rated value                                                                     | A  | 800               |
| <b>Auxiliary circuit</b>                                                                     |    |                   |
| Number of CO contacts / for auxiliary contacts                                               |    | 0                 |
| Number of NC contacts / for auxiliary contacts                                               |    | 0                 |
| Number of NO contacts / for auxiliary contacts                                               |    | 0                 |
| <b>Suitability</b>                                                                           |    |                   |
| Suitability for use                                                                          |    | system protection |
| <b>Adjustable parameters</b>                                                                 |    |                   |
| Adjustable pick-up value current / of the current-dependent overload release / initial value | A  | 40                |
| <b>Product details</b>                                                                       |    |                   |

|                                             |  |     |
|---------------------------------------------|--|-----|
| <b>Product component</b>                    |  |     |
| • Trip indicator                            |  | No  |
| • Auxiliary switch                          |  | No  |
| • Voltage trigger                           |  | No  |
| • 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                                         | kA | 35 |
| • at 415 V / rated value                                         | kA | 28 |
| • at 500 V / rated value                                         | kA | 20 |
| • at 690 V / rated value                                         | kA | 10 |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |    |    |
| • at 240 V / rated value                                         | kA | 65 |
| • at 415 V / rated value                                         | kA | 55 |
| • at 440 V / rated value                                         | kA | 35 |
| • at 480 V / acc. to NEMA / rated value                          | kA | 25 |
| • at 500 V / rated value                                         | kA | 25 |
| • at 600 V / acc. to NEMA / rated value                          | kA | 20 |
| • at 690 V / rated value                                         | kA | 20 |

## 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>        | mm | 406.5          |
| <b>Width</b>         | mm | 228.5          |
| <b>Depth</b>         | mm | 333.5          |
| <b>Mounting type</b> |    | fixed mounting |

## Environmental conditions

|                            |  |  |
|----------------------------|--|--|
| <b>Ambient temperature</b> |  |  |
|----------------------------|--|--|

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

|    |     |
|----|-----|
| °C | -25 |
| °C | 70  |
| °C | -40 |
| °C | 80  |

## Certificates

|                                   |  |                                      |
|-----------------------------------|--|--------------------------------------|
| <b>Certificate of suitability</b> |  | IEC, standard switching capacity (N) |
| <b>Equipment marking</b>          |  |                                      |
| • acc. to DIN EN 61346-2          |  | Q                                    |

## General Product Approval

## EMC



CCC



CSA

[sonstig](#)



[TSE](#)



C-TICK

## Declaration of Conformity

## Test Certificates

## Shipping Approval



EG-Konf.

[spezielle Prüfbescheinigungen](#)  
[n](#)



DNV



GL



RINA



RMRS

## other

[Bestätigungen](#)

[Umweltbestätigung](#)

[sonstig](#)

## 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/3VL77101SB360AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL77101SB360AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL77101SB360AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL77101SB360AA0)

### CAX-Online-Generator

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

### Tender specifications

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

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