

CIRCUIT-BREAKER VL 250N STANDARD BREAKING  
CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE  
PROTECTION OVERCURRENT RELEASE TM, LI  
IN=200A, RATED CURRENT IR=160-200A,  
OVERLOAD II=1000-2000A, SHORT-CIRCUIT WITH  
BOX TERMINAL

| Model                                                                                   |     |        |
|-----------------------------------------------------------------------------------------|-----|--------|
| Type of the driving mechanism / motor drive                                             |     | No     |
| Design of the overcurrent release                                                       |     | TM     |
| General technical data                                                                  |     |        |
| Number of poles                                                                         |     | 3      |
| Size of the circuit-breaker                                                             |     | 3VL3   |
| 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 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                                          |     | LI     |
| Electricity                                                                             |     |        |
| Continuous current / Rated value                                                        | A   | 200    |
| 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   | 200    |
| • of the instantaneous short-circuit release / initial value                            | A   | 1 000  |

- of the instantaneous short-circuit release / Full-scale value

A 2 000

#### Main circuit

##### Operating frequency

- 1 / Rated value
- 2 / Rated value

Hz 50  
Hz 60

##### Operating voltage

- for main current circuit / at AC / at 50 Hz / maximum
- for main current circuit / at AC / at 60 Hz / maximum
- for main current circuit / at DC / maximum

V 690  
V 690  
V 500

##### Operating current

- at 40 °C / Rated value
- at 50 °C / Rated value
- at 55 °C / Rated value
- at 60 °C / Rated value
- at 65 °C / Rated value
- at 70 °C / Rated value

A 200  
A 200  
A 186  
A 186  
A 172  
A 172

#### 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

1

#### Suitability

Suitability for use

system protection

#### Adjustable parameters

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

A 160

#### Product details

##### Product component

- Trip indicator
- Auxiliary switch
- Voltage trigger
- undervoltage release
- undervoltage release with leading contact

No  
Yes  
No  
No  
No

Product expansion / optional / motor drive

Yes

#### Product function

##### Product function

- of the thermal overload release
- Ground fault protection

adjustable  
No

- for neutral conductors / Short-circuit and overload proof
- overload protection

No  
Yes

## Short circuit

### Operational short-circuit current breaking capacity (Ics)

|                          |    |    |
|--------------------------|----|----|
| • at 240 V / Rated value | kA | 65 |
| • at 415 V / Rated value | kA | 55 |
| • at 500 V / Rated value | kA | 20 |
| • at 690 V / Rated value | kA | 6  |

### Maximum short-circuit current breaking capacity (Icu)

|                                         |    |    |
|-----------------------------------------|----|----|
| • at 240 V / Rated value                | kA | 65 |
| • at 415 V / Rated value                | kA | 55 |
| • at 440 V / Rated value                | kA | 25 |
| • 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 | 12 |
| • at 690 V / Rated value                | kA | 12 |

## Connections

Arrangement of electrical connectors / for main current circuit

front side

Type of connectable conductor cross-section

|                                              |  |                              |
|----------------------------------------------|--|------------------------------|
| • for main contacts                          |  |                              |
| — with flexible busbar                       |  | 17 x 10 mm                   |
| — solid                                      |  | 25 ... 185 mm <sup>2</sup>   |
| — finely stranded / with core end processing |  | 25 ... 120 mm <sup>2</sup>   |
| — stranded                                   |  | 25 ... 185 mm <sup>2</sup>   |
| • for auxiliary contacts                     |  |                              |
| — solid                                      |  | 0.75 ... 1.5 mm <sup>2</sup> |
| — finely stranded / with core end processing |  | 0,75 ... 1.0 mm <sup>2</sup> |

Type of electrical connection / for main current circuit

box terminals

## Mechanical Design

|               |    |                |
|---------------|----|----------------|
| Height        | mm | 185.5          |
| Width         | mm | 104.5          |
| Depth         | mm | 106.5          |
| Mounting type |    | fixed mounting |

## Environmental conditions

### Ambient temperature

|                              |    |     |
|------------------------------|----|-----|
| • during operation / minimum | °C | 0   |
| • during operation / maximum | °C | 70  |
| • during storage / minimum   | °C | -40 |

• during storage / maximum

°C 80

## Certificates

### Certificate of suitability

IEC, standard switching capacity (N)

### Equipment marking

• acc. to DIN EN 61346-2

Q

### General Product Approval

### EMC

### Declaration of Conformity



CCC

[sonstig](#)



[TSE](#)



C-TICK



EG-Konf.

### Test Certificates

### Shipping Approval

[spezielle Prüfbescheinigungen](#)



ABS



BUREAU VERITAS



DNV



GL



LRS

### Shipping Approval

### other



PRS



RINA



RMRS

[Umweltbestätigung](#)

[sonstig](#)

[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/3VL37201DC330AB1-Z U01>

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

<http://support.automation.siemens.com/WW/view/en/3VL37201DC330AB1-Z U01/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL37201DC330AB1-Z U01](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL37201DC330AB1-Z U01)

### CAX-Online-Generator

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

### Tender specifications

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

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