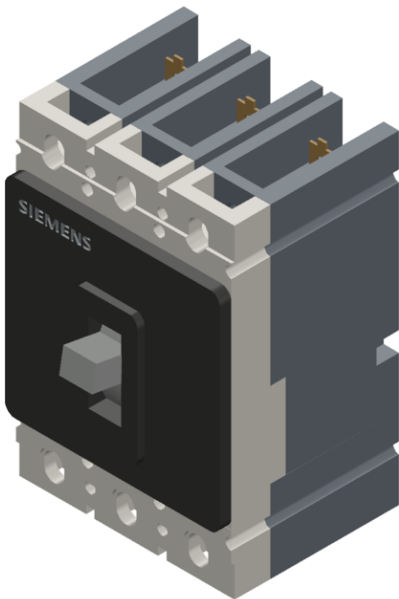


circuit breaker VL150X UL, type CG (cat no. NCX3B035) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole, NEMA rating 65kA/480V (molded case circuit breaker) Electronic Trip Unit TM, LI function TA=40°C In=<35A rated current II=300A short-circuit protection IR=35A Electronic Trip Unit for line protection without connection accessories without auxiliary release without auxiliary/alarm switch



| 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                       | 3VL1 UL |
| Electrical endurance (switching cycles) / typical | 10 000  |

|                                                                                      |         |
|--------------------------------------------------------------------------------------|---------|
| Usage category                                                                       | A       |
| Performance class for circuit breaker                                                | N       |
| Mechanical service life (switching cycles) / typical                                 | 20 000  |
| Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | Q       |
| Operating frequency / maximum                                                        | 120 1/s |

## Voltage

|                                                                          |       |
|--------------------------------------------------------------------------|-------|
| Rated operational voltage U <sub>e</sub> / max.                          | 690 V |
| Insulation voltage                                                       |       |
| • rated value                                                            | 800 V |
| • at AC / rated value                                                    | 800 V |
| Surge voltage resistance / rated value                                   | 8 kV  |
| Operating voltage                                                        |       |
| • rated value / maximum                                                  | 690 V |
| • for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum | 600 V |
| • for main current circuit / at AC / at 50 Hz / maximum                  | 690 V |
| • for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum | 600 V |
| • for main current circuit / at AC / at 60 Hz / maximum                  | 690 V |

## Protection class

|                                                |      |
|------------------------------------------------|------|
| Protection class IP                            | IP20 |
| protection function of the overcurrent release | LI   |

## Current

|                                                                      |        |
|----------------------------------------------------------------------|--------|
| Operating current / at 45 °C / rated value                           | 32.5 A |
| Continuous current / rated value                                     | 35 A   |
| Derating temperature / for the rated value of the continuous current | 50 °C  |
| • acc. to UL 489                                                     | 40 °C  |
| Adjustable pick-up value current                                     |        |
| • of the current-dependent overload release / Full-scale value       | 35 A   |
| • of instantaneous short-circuit trip unit / initial value           | 600 A  |
| • of instantaneous short-circuit trip unit / Full-scale value        | 600 A  |

## Main circuit

|                     |       |
|---------------------|-------|
| Operating frequency |       |
| • 1 / rated value   | 50 Hz |
| • 2 / rated value   | 60 Hz |

|                                                                                              |                   |
|----------------------------------------------------------------------------------------------|-------------------|
| Operating current                                                                            |                   |
| • at 40 °C / rated value                                                                     | 35 A              |
| • at 50 °C / rated value                                                                     | 32.5 A            |
| • at 55 °C / rated value                                                                     | 30.1 A            |
| • at 60 °C / rated value                                                                     | 30.1 A            |
| 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                                                                          | system protection |
| Adjustable parameters                                                                        |                   |
| Adjustable pick-up value current / of the current-dependent overload release / initial value | 35 A              |
| Product details                                                                              |                   |
| Product component                                                                            |                   |
| • 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                                                                             |                   |
| Product function                                                                             |                   |
| • of thermal overload trip unit                                                              | fixed             |
| • 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                                                                     | 75 kA             |
| • at 415 V / rated value                                                                     | 70 kA             |
| • at 690 V / rated value                                                                     | 5 kA              |
| Maximum short-circuit current breaking capacity (Icu)                                        |                   |
| • at 240 V / rated value                                                                     | 100 kA            |
| • at 415 V / rated value                                                                     | 70 kA             |
| • at 480 V / acc. to NEMA / rated value                                                      | 65 kA             |
| • at 600 V / acc. to NEMA / rated value                                                      | 10 kA             |

• at 690 V / rated value

10 kA

## Connections

|                                                                 |                                |
|-----------------------------------------------------------------|--------------------------------|
| Arrangement of electrical connectors / for main current circuit | front side                     |
| Type of electrical connection / for main current circuit        | without connection accessoires |

## Mechanical Design

|               |                |
|---------------|----------------|
| Height        | 157.5 mm       |
| Width         | 104.5 mm       |
| Depth         | 106.5 mm       |
| Mounting type | fixed mounting |

## Environmental conditions

|                                        |        |
|----------------------------------------|--------|
| Ambient temperature / during operation |        |
| • minimum                              | 0 °C   |
| • maximum                              | 70 °C  |
| Ambient temperature / during storage   |        |
| • minimum                              | -40 °C |
| • maximum                              | 80 °C  |

## Certificates

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| Certificate of suitability | UL high switching capacity (H), non-interchangeable |
| Reference code             |                                                     |
| • acc. to DIN EN 61346-2   | Q                                                   |

## General Product Approval

## EMC

## Declaration of Conformity



[Miscellaneous](#)



## Test Certificates

## Shipping Approval

## other

[Special Test Certificate](#)



[Environmental Conformations](#)

[Miscellaneous](#)

[Confirmation](#)

[Manufacturer Declaration](#)

## Further information

### 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=3VL1135-2KM30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL1135-2KM30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL1135-2KM30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1135-2KM30-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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