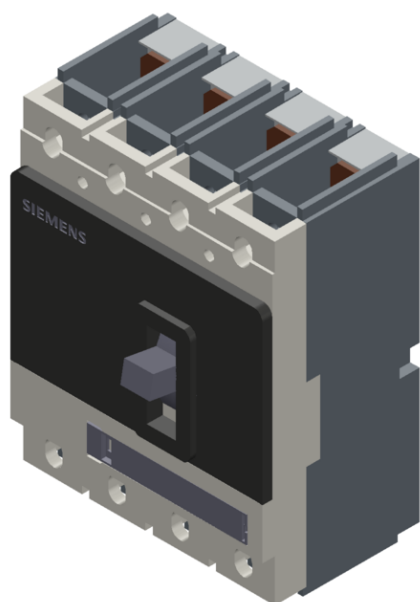


CIRCUIT-BREAKER VL 250H HIGH BREAKING CAPACITY ICU= 70KA, 415V AC 4 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN= 250A, RATED CURRENT IR= 200...250A, OVERLOAD II= 1250...2500A, SHORT-CIRCUIT N PROTECTED (100%)



| Model                                                                                      |         |
|--------------------------------------------------------------------------------------------|---------|
| Type of the driving mechanism / motor drive                                                | No      |
| Design of the overcurrent release                                                          | TM      |
| General technical data                                                                     |         |
| Number of poles                                                                            | 4       |
| 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  |
| Reference identifier / 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    |
| Protection class                                                                           |         |
| Protection class IP                                                                        | IP20    |
| Protective function of the overcurrent release                                             | LIN     |
| Dissipation                                                                                |         |
| Power loss [W]                                                                             |         |
| • maximum                                                                                  | 71 W    |
| Electricity                                                                                |         |
| Operating current / at 45 °C / rated value                                                 | 250 A   |
| Continuous current / rated value                                                           | 250 A   |
| Derating temperature / for the rated value of the continuous current                       | 50 °C   |
| Adjustable pick-up value current                                                           |         |
| • of the current-dependent overload release / Full-scale value                             | 250 A   |
| • of instantaneous short-circuit trip unit / initial value                                 | 1 250 A |
| • of instantaneous short-circuit trip unit / Full-scale value                              | 2 500 A |
| Main circuit                                                                               |         |
| Operating frequency                                                                        |         |
| • 1 / rated value                                                                          | 50 Hz   |
| • 2 / rated value                                                                          | 60 Hz   |

|                                                                                              |                   |
|----------------------------------------------------------------------------------------------|-------------------|
| <b>Operating voltage</b>                                                                     |                   |
| • rated value / maximum                                                                      | 690 V             |
| • for main current circuit / at AC / at 50 Hz / maximum                                      | 690 V             |
| • for main current circuit / at AC / at 60 Hz / maximum                                      | 690 V             |
| • for main current circuit / at DC / maximum                                                 | 500 V             |
| <b>Operating current</b>                                                                     |                   |
| • at 40 °C / rated value                                                                     | 250 A             |
| • at 50 °C / rated value                                                                     | 250 A             |
| • at 55 °C / rated value                                                                     | 232.5 A           |
| • at 60 °C / rated value                                                                     | 232.5 A           |
| • at 65 °C / rated value                                                                     | 215 A             |
| • at 70 °C / rated value                                                                     | 215 A             |
| <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 | 200 A             |
| <b>Product details</b>                                                                       |                   |
| 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               |
| <b>Product function</b>                                                                      |                   |
| Product function                                                                             |                   |
| • of thermal overload trip unit                                                              | adjustable        |
| • Ground fault protection                                                                    | No                |
| • for neutral conductors / Short-circuit and overload proof                                  | Yes               |
| • Overload protection                                                                        | Yes               |
| <b>Short circuit</b>                                                                         |                   |
| Operational short-circuit current breaking capacity (Ics)                                    |                   |
| • at 240 V / rated value                                                                     | 75 kA             |
| • at 415 V / rated value                                                                     | 70 kA             |
| • at 500 V / rated value                                                                     | 30 kA             |
| • at 690 V / rated value                                                                     | 6 kA              |

|                                                       |        |
|-------------------------------------------------------|--------|
| Maximum short-circuit current breaking capacity (Icu) |        |
| • at 240 V / rated value                              | 100 kA |
| • at 415 V / rated value                              | 70 kA  |
| • at 440 V / rated value                              | 50 kA  |
| • at 480 V / acc. to NEMA / rated value               | 50 kA  |
| • at 500 V / rated value                              | 40 kA  |
| • at 600 V / acc. to NEMA / rated value               | 12 kA  |
| • at 690 V / rated value                              | 12 kA  |

| Connections                                                     |                      |
|-----------------------------------------------------------------|----------------------|
| Arrangement of electrical connectors / for main current circuit | front side           |
| Type of electrical connection / for main current circuit        | screw-type terminals |

| Mechanical Design |                |
|-------------------|----------------|
| Height            | 185.5 mm       |
| Width             | 139.5 mm       |
| Depth             | 106.5 mm       |
| Mounting type     | fixed mounting |

| Certificates               |                                  |
|----------------------------|----------------------------------|
| Certificate of suitability | IEC, high switching capacity (H) |
| Reference identifier       |                                  |
| • acc. to DIN EN 61346-2   | Q                                |

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



CCC

[Miscellaneous](#)

[TSE](#)

[KC](#)



C-Tick



EG-Konf.

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

[Special Test Certificate](#)



LRS



RINA



RMRS

[Confirmation](#)

[Environmental Confirmations](#)

| other |
|-------|
|-------|

[Miscellaneous](#)

## 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=3VL3725-2EM46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3725-2EM46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL3725-2EM46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3725-2EM46-0AA0)

### **CAX-Online-Generator**

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

### **Tender specifications**

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