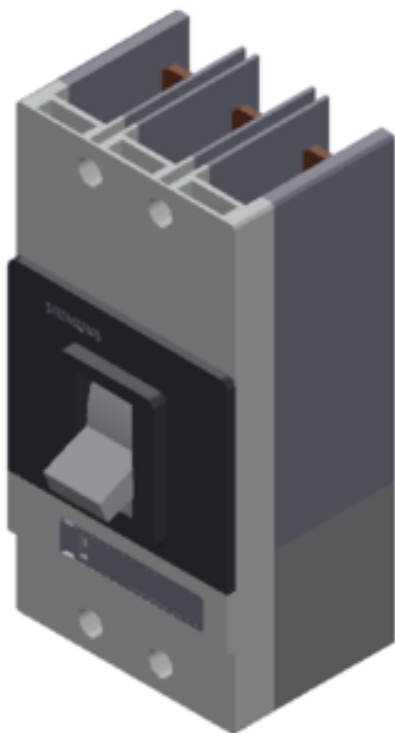




CIRCUIT-BREAKER VL 400H HIGH BREAKING  
CAPACITY ICU=70KA / 415 V AC 3 POLE, MOTOR/  
GENERATOR PROTECTION ELECTRONIC TRIP UNIT  
ETU10M, LI IN=315A, RATED CURRENT IR=125-  
315A, OVERLOAD II=1,25TO11XIN, SHORT CIRCUIT

| Model                                                                                   |     |        |
|-----------------------------------------------------------------------------------------|-----|--------|
| Type of the driving mechanism / motor drive                                             |     | No     |
| Design of the overcurrent release                                                       |     | ETU10M |
| 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 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>Dissipation</b>                                                   |    |       |
| Active power loss                                                    |    |       |
| • maximum                                                            | W  | 60    |
| <b>Electricity</b>                                                   |    |       |
| 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  | 394   |
| • of the instantaneous short-circuit release / Full-scale value      | A  | 3 465 |
| <b>Main circuit</b>                                                  |    |       |
| 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   |
| <b>Auxiliary circuit</b>                                             |    |       |
| Number of CO contacts / for auxiliary contacts                       |    | 0     |
| Number of NC contacts / for auxiliary contacts                       |    | 1     |

|                                                                                               |    |                  |
|-----------------------------------------------------------------------------------------------|----|------------------|
| Number of NO contacts / for auxiliary contacts                                                |    | 2                |
| 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                                                                              |    | Yes              |
| • Auxiliary switch                                                                            |    | Yes              |
| • 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 | 75               |
| • at 415 V / Rated value                                                                      | kA | 70               |
| • at 500 V / Rated value                                                                      | kA | 30               |
| • at 690 V / Rated value                                                                      | kA | 8                |
| Maximum short-circuit current breaking capacity (Icu)                                         |    |                  |
| • at 240 V / Rated value                                                                      | kA | 100              |
| • at 415 V / Rated value                                                                      | kA | 70               |
| • at 440 V / Rated value                                                                      | kA | 50               |
| • at 480 V / acc. to NEMA / Rated value                                                       | kA | 50               |
| • at 500 V / Rated value                                                                      | kA | 40               |
| • 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-section                                                   |    |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for main contacts           <ul style="list-style-type: none"> <li>— with flexible busbar</li> <li>— solid</li> <li>— finely stranded / with core end processing</li> <li>— stranded</li> </ul> </li> <li>• for auxiliary contacts           <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded / with core end processing</li> </ul> </li> </ul> |  | 25 x 10<br>50 ... 300 mm <sup>2</sup><br>50 ... 240 mm <sup>2</sup><br>50 ... 300 mm <sup>2</sup><br><br>0.75 ... 1.5 mm <sup>2</sup><br>0,75 ... 1.0 mm <sup>2</sup> |
| 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

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

#### Certificates

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

| General Product Approval                                                                 |                                                                                          |                         |                                                                                          | EMC                                                                                           | Declaration of Conformity                                                                       |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>CSA | <a href="#">sonstig</a> | <br>EAC | <br>C-TICK | <br>EG-Konf. |

| Test Certificates                                                | Shipping Approval                                                                        |                                                                                         |                                                                                           |                                                                                             | other                             |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------|
| <a href="#">spezielle Prüfbescheinigung</a><br><a href="#">n</a> | <br>DNV | <br>GL | <br>RINA | <br>RMRS | <a href="#">Umweltbestätigung</a> |

| other                         |                         |
|-------------------------------|-------------------------|
| <a href="#">Bestätigungen</a> | <a href="#">sonstig</a> |

#### 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/3VL47312SP360AD1>

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

<http://support.automation.siemens.com/WW/view/en/3VL47312SP360AD1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL47312SP360AD1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL47312SP360AD1)

##### CAX-Online-Generator

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

##### Tender specifications

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

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