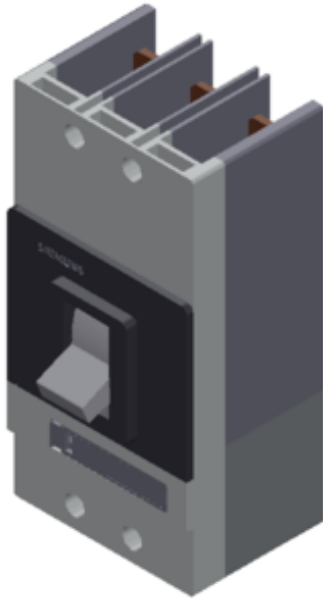


CIRCUIT-BREAKER VL 400N STANDARD BREAKING CAPACITY  
 ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC  
 TRIP UNIT ETU20, LSI IN=400A, RATED CURRENT IR=160-400A,  
 OVERLOAD ISD=1,5TO10XIR, II=11XIN SHORT-CIRCUIT



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU20
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	120 1/s
Voltage	
Rated operational voltage Ue / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V

Surge voltage resistance / rated value	8 kV
--	------

### Protection class

<b>Protection class IP</b>	IP20
<b>Protective function of the overcurrent release</b>	LSI

### Electricity

Continuous current / rated value	400 A
Derating temperature / for the rated value of the continuous current	50 °C
<b>Adjustable pick-up value current</b>	
<ul style="list-style-type: none"> <li>• of the current-dependent overload release / Full-scale value</li> </ul>	400 A
<ul style="list-style-type: none"> <li>• of instantaneous short-circuit trip unit / initial value</li> </ul>	4 400 A
<ul style="list-style-type: none"> <li>• of instantaneous short-circuit trip unit / Full-scale value</li> </ul>	4 400 A

### Main circuit

<b>Operating frequency</b>	
<ul style="list-style-type: none"> <li>• 1 / rated value</li> </ul>	50 Hz
<ul style="list-style-type: none"> <li>• 2 / rated value</li> </ul>	60 Hz
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at DC / maximum</li> </ul>	500 V
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	400 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	400 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	380 A
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	380 A
<ul style="list-style-type: none"> <li>• at 65 °C / rated value</li> </ul>	320 A
<ul style="list-style-type: none"> <li>• at 70 °C / rated value</li> </ul>	320 A

### Suitability

<b>Suitability for use</b>	system/generator protection
----------------------------	-----------------------------

### Adjustable parameters

<b>Adjustable pick-up value current / of the current-dependent overload release / initial value</b>	160 A
---	-------

### Product details

<b>Product component</b>	
<ul style="list-style-type: none"> <li>• Trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>	Yes

• Voltage trigger	No
• undervoltage release	Yes
• 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	65 kA
• at 415 V / rated value	55 kA
• at 500 V / rated value	20 kA
• at 690 V / rated value	8 kA
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• at 240 V / rated value	65 kA
• at 415 V / rated value	55 kA
• at 440 V / rated value	35 kA
• at 480 V / acc. to NEMA / rated value	35 kA
• at 500 V / rated value	25 kA
• at 600 V / acc. to NEMA / rated value	20 kA
• at 690 V / rated value	15 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

<b>Height</b>	279.5 mm
<b>Width</b>	139 mm
<b>Depth</b>	163.5 mm
<b>Mounting type</b>	fixed mounting

## Environmental conditions

<b>Ambient temperature</b>	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C

• during storage / maximum

80 °C

## 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

### Test Certificates



CCC



CSA

[sonstig](#)



C-Tick



EG-Konf.

[spezielle  
Prüfbescheinigung](#)  
[n](#)

### Shipping Approval

### other



RINA



RMRS

[Umweltbestätigung](#)

[Bestätigungen](#)

[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/3VL4740-1SE36-2JB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL4740-1SE36-2JB1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL4740-1SE36-2JB1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1SE36-2JB1)

### CAX-Online-Generator

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

### Tender specifications

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