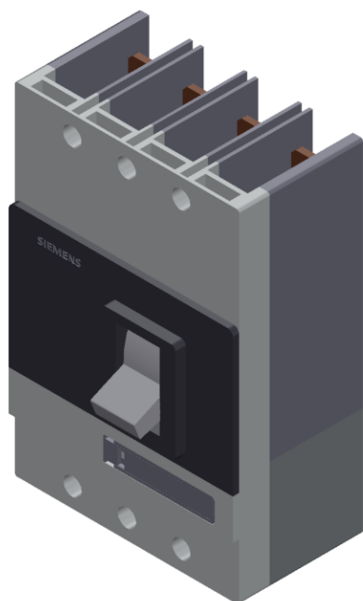


circuit breaker VL400N standard breaking capacity  $I_{cu}=55kA$ , 415V AC 4-pole, line protection Electronic Trip Unit TM, LI  $I_n=315A$ , rated current  $I_R=250...315A$ , overload protection,  $I_l=1575...3150A$ , short-circuit protection N protected Undervoltage release 220...250 V AC Auxiliary switch mounting kit 2 AUX (1 NO + 1 NC)



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	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
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 $U_e$ / 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 / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
• for main current circuit / at DC / maximum	500 V

### Protection class

Protection class IP	IP20
Protective function of the overcurrent release	LIN

### Current

Operating current / at 45 °C / rated value	315 A
Continuous current / rated value	315 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	315 A
• of instantaneous short-circuit trip unit / initial value	1 575 A
• of instantaneous short-circuit trip unit / Full-scale value	3 150 A

### Main circuit

Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating current	
• at 40 °C / rated value	315 A
• at 50 °C / rated value	315 A
• at 55 °C / rated value	293 A

• at 60 °C / rated value	293 A
• at 65 °C / rated value	270.9 A
• at 70 °C / rated value	270.9 A

#### 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
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#### Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	252 A
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#### Product details

Product component	
• Trip indicator	No
• Auxiliary switch	Yes
• Voltage trigger	No
• undervoltage release	Yes
• undervoltage release with leading contact	No
Product extension / optional / motor drive	Yes

#### Product function

Product function	
• of thermal overload trip unit	adjustable
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	Yes
• Overload protection	Yes

#### Short circuit

Operational short-circuit current breaking capacity (Ics)	
• 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
Maximum short-circuit current breaking capacity (Icu)	
• 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
<b>Type of connectable conductor cross-sections</b>	
• for main contacts / with flexible busbar	25 x 10
• for main contacts / solid	50 ... 300 mm <sup>2</sup>
• for main contacts / finely stranded / with core end processing	50 ... 240 mm <sup>2</sup>
• for main contacts / stranded	50 ... 300 mm <sup>2</sup>
• for auxiliary contacts / solid	0.75 ... 1.5 mm <sup>2</sup>
• for auxiliary contacts / finely stranded / with core end processing	0,75 ... 1.0 mm <sup>2</sup>
Type of electrical connection / for main current circuit	screw-type terminals





## Mechanical Design

Height	279.5 mm
Width	183.5 mm
Depth	163.5 mm
Mounting type	fixed mounting
• during operation	0 ... 70 °C
• during storage	-40 ... +80 °C

## Certificates

Certificate of suitability	IEC, standard switching capacity (N)
Reference code	
• acc. to DIN EN 61346-2	Q

General Product Approval		EMC	Declaration of Conformity	Test Certificates
 CCC	<a href="#">Miscellaneous</a>	<a href="#">KC</a>	 C-Tick	 EG-Konf.
				<a href="#">Special Test Certificate</a>

Shipping Approval					
 ABS	 BUREAU VERITAS	 LRS	 PRS	 RINA	 RMRS

other			
<a href="#">Confirmation</a>	<a href="#">Environmental Confirmations</a>	<a href="#">Miscellaneous</a>	<a href="#">Manufacturer Declaration</a>

### 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=3VL4731-1EC46-2HB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4731-1EC46-2HB1>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL4731-1EC46-2HB1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4731-1EC46-2HB1)

**CAX-Online-Generator**

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

**Tender specifications**

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