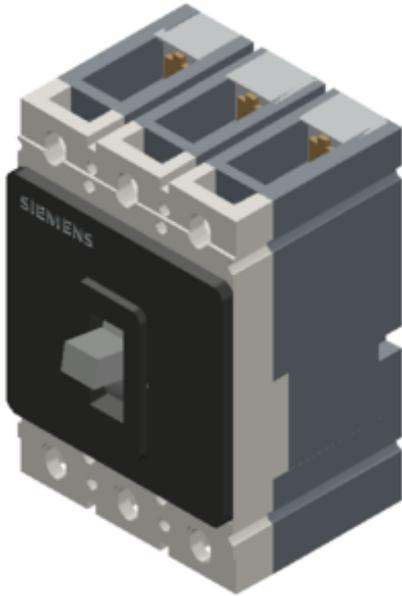


CIRCUIT-BREAKER VL160X N STANDARD BREAKING CAPACITY  
 ICU=55KA / 415 V AC 3 POLE, NON-AUTOMATIC OVERCURRENT  
 RELEASE MAGNETIC IN=160A, RATED CURRENT II=1800A,  
 SHORT CIRCUIT WITH SCREW CONNECTION



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	M
General technical data	
Number of poles	3
Size of the circuit-breaker	3VL1
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 $U_e$ / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V

Surge voltage resistance / rated value	8 kV
<b>Protection class</b>	
Protection class IP	IP20
Protective function of the overcurrent release	I
<b>Dissipation</b>	
Power loss [W]	
• maximum	40 W
<b>Electricity</b>	
Continuous current / rated value	160 A
Derating temperature / for the rated value of the continuous current	50 °C
<b>Adjustable pick-up value current</b>	
• of instantaneous short-circuit trip unit / initial value	1 800 A
• of instantaneous short-circuit trip unit / Full-scale value	1 800 A
<b>Main circuit</b>	
<b>Operating frequency</b>	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
<b>Operating voltage</b>	
• 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	160 A
• at 50 °C / rated value	160 A
• at 55 °C / rated value	148.8 A
• at 60 °C / rated value	148.8 A
• at 65 °C / rated value	137.6 A
• at 70 °C / rated value	137.6 A
<b>Suitability</b>	
Suitability for use	non-automatic circuit-breakers
<b>Product details</b>	
<b>Product component</b>	
• 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

<b>Product function</b>	
• of thermal overload trip unit	without
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	No

### 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	14 kA
• at 690 V / rated value	4 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	25 kA
• at 480 V / acc. to NEMA / rated value	25 kA
• at 500 V / rated value	18 kA
• at 600 V / acc. to NEMA / rated value	8 kA
• at 690 V / rated value	8 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>	157.5 mm
<b>Width</b>	104.5 mm
<b>Depth</b>	106.5 mm
<b>Mounting type</b>	fixed mounting

### Environmental conditions

<b>Ambient temperature</b>	
• during operation / minimum	0 °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	Shipping Approval
<a href="#">Miscellaneous</a>	<a href="#">TSE</a>	 C-Tick	<a href="#">Special Test Certificate</a>	 ABS

### Shipping Approval

### other



LRS



PRS



RINA



RMRS

[Confirmation](#)

### other

[Miscellaneous](#)

[Environmental Confirmations](#)

## 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=3VL1716-1DE36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL1716-1DE36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL1716-1DE36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1716-1DE36-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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