



CIRCUIT-BREAKER VL160X N STANDARD  
 BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE,  
 LINE PROTECTION OVERCURRENT RELEASE TM, LI  
 IN=40A, RATED CURRENT IR=32-40A, OVERLOAD  
 II=600A, SHORT-CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		3
Electrical endurance (switching cycles)		
• typical		10 000
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage Ue / max.	V	690
Insulation voltage		
• Rated value	V	800
• with AC / Rated value	V	800
Surge voltage resistance		
• Rated value	kV	8
Protection class		
Protection class IP		IP20
Dissipation		
Active power loss		
• maximum	W	70
Electricity		
Continuous current		
• Rated value	A	40
Derating temperature / for the rated value of the continuous current	°C	50

<b>Adjustable response value current</b>		
• of the current-dependent overload release / Full-scale value	A	40
• of the instantaneous short-circuit release / initial value	A	600
• of the instantaneous short-circuit release / Full-scale value	A	600

### Main circuit

<b>Operating frequency</b>		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
<b>Operating voltage</b>		
• for main current circuit / with AC / at 50 Hz / maximum	V	690
• for main current circuit / with AC / at 60 Hz / maximum	V	690
• for main current circuit / for DC / maximum	V	500
<b>Operating current</b>		
• at 40 °C / Rated value	A	40
• at 50 °C / Rated value	A	40
• at 55 °C / Rated value	A	37.2
• at 60 °C / Rated value	A	37.2
• at 65 °C / Rated value	A	34.4
• at 70 °C / Rated value	A	34.4

### Auxiliary circuit

<b>Number of CO contacts</b>		
• for auxiliary contacts		0
<b>Number of NC contacts</b>		
• for auxiliary contacts		0
<b>Number of NO contacts</b>		
• for auxiliary contacts		0

### Adjustable parameters

<b>Adjustable response value current / of the current-dependent overload release / initial value</b>	A	32
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### Appearance

### Product details

<b>Product component</b>		
• Trip indicator		No
• Auxiliary switch		No
• Voltage trigger		No
• undervoltage release		No

• undervoltage release with leading contact		No
<b>Product expansion</b>		
• optional		
— motor drive		Yes

### Product function

<b>Product function</b>		
• 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	kA	65
• at 415 V / Rated value	kA	55
• at 500 V / Rated value	kA	14
• at 690 V / Rated value	kA	4
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / Rated value	kA	65
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	25
• at 480 V / acc. to NEMA / Rated value	kA	25
• at 500 V / Rated value	kA	18
• at 600 V / acc. to NEMA / Rated value	kA	8
• at 690 V / Rated value	kA	8

### Mechanical Design

<b>Height</b>	mm	157.5
<b>Width</b>	mm	104.5
<b>Depth</b>	mm	106.5

### Environmental conditions

<b>Ambient temperature</b>		
• during operation / minimum	°C	0
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

### Certificates

General Product Approval	EMC
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[TSE](#)

[KTL](#)



Declaration of Conformity	Test Certificates	Shipping Approval			
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[Special Test Certificate](#)



Shipping Approval	other				
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[Confirmation](#)

[Environmental Confirmations](#)

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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/3VL17041DD330AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL17041DD330AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL17041DD330AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL17041DD330AA0)

CAX-Online-Generator

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

Tender specifications

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

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