

CIRCUIT-BREAKER VL160X N STANDARD  
 BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE,  
 LINE PROTECTION OVERCURRENT RELEASE TM, LI  
 IN=100A, RATED CURRENT IR=80-100A, OVERLOAD  
 II=1000A, SHORT-CIRCUIT WITH SCREW  
 CONNECTION

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	100
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	100
• of the instantaneous short-circuit release / initial value	A	1 000
• of the instantaneous short-circuit release / Full-scale value	A	1 000

### 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	100
• at 50 °C / Rated value	A	100
• at 55 °C / Rated value	A	93
• at 60 °C / Rated value	A	93
• at 65 °C / Rated value	A	86
• at 70 °C / Rated value	A	86

### 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	80
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### 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	Declaration of Conformity	Test Certificates
<a href="#">other</a>	<a href="#">TSE</a>		<a href="#">Special Test Certificate</a>
			
	C-TICK	EG-Konf.	

Shipping Approval					
					
ABS	BUREAU VERITAS	DNV	GL	PRS	RINA

Shipping Approval	other		
	<a href="#">other</a>	<a href="#">Environmental Confirmations</a>	<a href="#">Confirmation</a>
RMRS			

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/3VL17101DD360AA0>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<http://support.automation.siemens.com/WW/view/en/3VL17101DD360AA0/all>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VL17101DD360AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL17101DD360AA0)
- CAX-Online-Generator**  
<http://www.siemens.com/cax>
- Tender specifications**  
<http://ausschreibungstexte.siemens.com/tiplv>

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