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CIRCUIT-BREAKER VL160X N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=20A, RATED CURRENT IR=16...20A, OVERLOAD II=300A, SHORT-CIRCUIT

**General technical data:**

<b>Number of poles</b>		3
<b>Design of the overcurrent release</b>		TM
<b>Acceptability for application</b>		system protection
<b>Electrical operating cycles as operating time / typical</b>		10,000
<b>Mechanical operating cycles as operating time / typical</b>		20,000
<b>Active power loss / maximum</b>	W	70
<b>Product component</b>		
• auxiliary switch		No
• Voltage trigger		No
• undervoltage release mechanism		No
• undervoltage release with leading contact		No
<b>Product function</b>		
• of the thermal overload release		adjustable
• ground-fault protection		No
• for zero conductors / short-circuit and overload protection		No
• overload protection		Yes
<b>Operating cycles / maximum</b>	1/s	120
<b>Protection class IP</b>		IP20

<b>Protective function of the overcurrent release</b>		LI
<b>Impulse voltage resistance / rated value</b>	kV	8
<b>Ambient temperature</b>		
• during operating		
• minimum	°C	-25 ...
• maximum	°C	70
• during storage		
• minimum	°C	-40
• maximum	°C	50

#### Main circuit:

<b>Insulation voltage / for AC / rated value</b>	V	800
<b>Operating frequency</b>		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
<b>Item designation</b>		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		Q
• according to DIN EN 61346-2		Q
<b>Operating voltage</b>		
• for main current circuit		
• at 50 Hz / for AC		
• maximum	V	690
• at 60 Hz / for AC		
• maximum	V	690
• for DC		
• maximum	V	500
<b>Operating current</b>		
• at 40 °C / rated value	A	20
• at 50 °C / rated value	A	20
• at 60 °C / rated value	A	18.6
• at 70 °C / rated value	A	17.2
<b>Continuous current / rated value</b>	A	20
<b>Derating temperature / for the rated value of the continuous current</b>	°C	50

#### Auxiliary circuit:

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

#### Short-circuit:

<b>Adjustable response current</b>		
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<ul style="list-style-type: none"> <li>• of the current-dependent overload release <ul style="list-style-type: none"> <li>• initial value</li> <li>• final value</li> </ul> </li> <li>• of the non-delayed short-circuit release <ul style="list-style-type: none"> <li>• initial value</li> <li>• final value</li> </ul> </li> </ul>	A	16 ...
	A	20
	A	300 ...
	A	300
<b>Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 415 V / rated value</b>	kA	55

### Installation/mounting/dimensions:

<b>Type of mounting</b>		fixed mounting
<b>Height</b>	mm	157.5
<b>Width</b>	mm	104.5
<b>Depth</b>	mm	106.5

### Connections:

<b>Arrangement of electrical connectors / for main current circuit</b>		front side
<b>Design of the electrical connection / for main current circuit</b>		box terminals
<b>Type of the connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• with flexible busbar</li> <li>• solid</li> <li>• finely stranded / with conductor end processing</li> <li>• stranded</li> </ul> </li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with conductor end processing</li> </ul> </li> </ul>		12 x 10 mm 2,5 ... 95 mm <sup>2</sup> 2,5 ... 50 mm <sup>2</sup> 2,5 ... 95 mm <sup>2</sup>  0,75 ... 1.5 mm <sup>2</sup> 0.75 ... 1.0 mm <sup>2</sup>

### Certificates/approvals:

### Further information:

#### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

#### Industry Mall (Online ordering system)

<http://www.siemens.com/lowvoltage/maill>

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

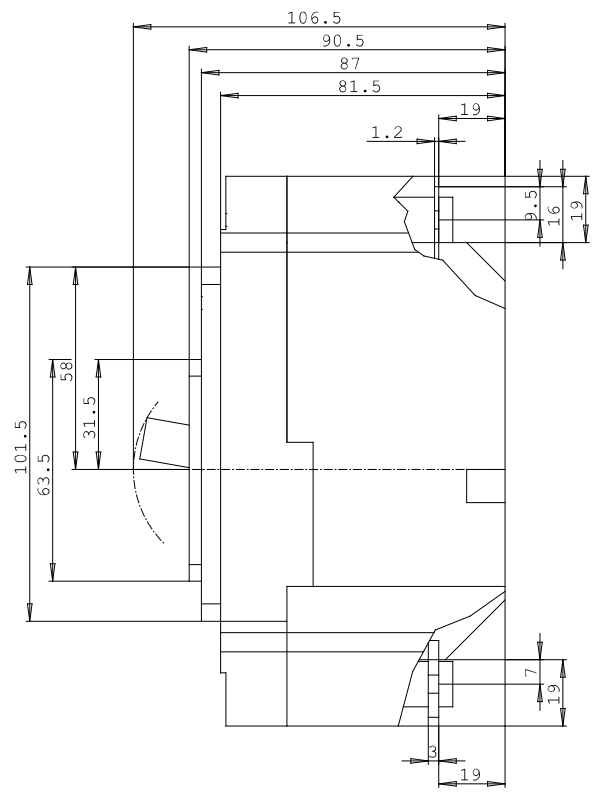
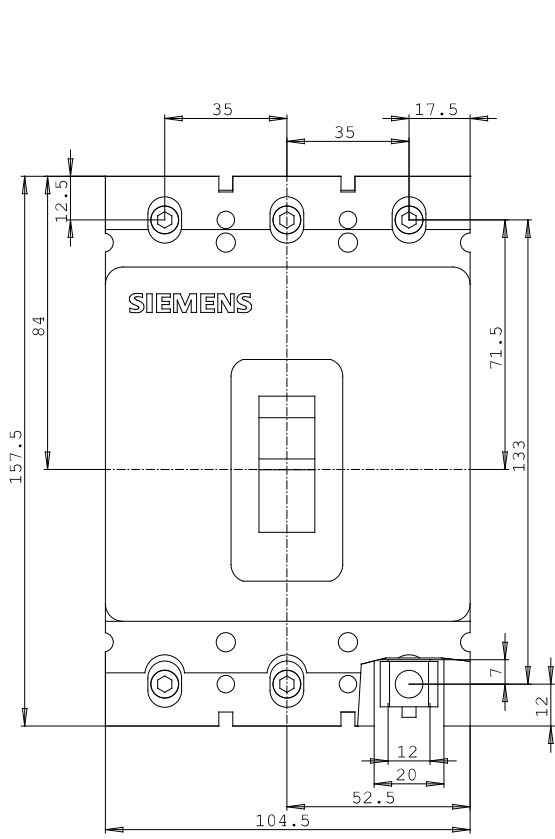
<http://support.automation.siemens.com/WW/view/en/3VL1702-1DD33-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL1702-1DD33-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1702-1DD33-0AA0)

#### CAX-Online-Generator

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



last change:

Feb 8, 2013