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CIRCUIT-BREAKER VL 160N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC TRIP UNIT ETU20, LSI IN=160A, RATED CURRENT IR=64-160A, OVERLOAD ISD=1,5TO10XIR, II=11XIN SHORT-CIRCUIT WITH SCREW CONNECTION WITHOUT AUXILIARY RELEASE AUXILIARY/ALARM SWITCH KIT 2HS(1NO+1NC)+1AS(1NO)

**General technical data:**

<b>Number of poles</b>		3
<b>Design of the overcurrent release</b>		ETU20
<b>Suitability for use</b>		system/generator protection
<b>Usage category</b>		A
<b>Electrical endurance (switching cycles) / typical</b>		10,000
<b>Mechanical service life (switching cycles) / typical</b>		20,000
<b>Active power loss / maximum</b>	W	40
<b>Product component</b>		
• Auxiliary switch		Yes
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
<b>Product function</b>		
• of the thermal overload release		adjustable
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• overload protection		Yes
<b>Operating frequency / maximum</b>	1/s	120

<b>Protection class IP</b>		IP20
<b>Protective function of the overcurrent release</b>		LSI
<b>Surge voltage resistance / Rated value</b>	kV	8
<b>Ambient temperature</b>		
• during operation	°C	-25 ... +70
• during storage	°C	-40 ... +80

#### Main circuit:

<b>Insulation voltage / with AC / Rated value</b>	V	800
<b>Operating frequency</b>		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
<b>Reference code</b>		
• acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
• acc. to DIN EN 61346-2		Q
<b>Operating voltage / for main current circuit</b>		
• with AC / at 50 Hz		
• maximum	V	690
• with AC / at 60 Hz		
• maximum	V	690
<b>Operating current</b>		
• at 40 °C / Rated value	A	160
• at 50 °C / Rated value	A	160
• at 60 °C / Rated value	A	152
• at 70 °C / Rated value	A	128
<b>Continuous current / Rated value</b>	A	160
<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>		1
<b>Number of NO contacts / for auxiliary contacts</b>		2

#### Short-circuit:

<b>Adjustable response value current</b>		
• of the current-dependent overload release	A	64 ... 160
• of the instantaneous short-circuit release	A	1,760 ... 1,760
<b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>) / at 415 V / Rated value</b>	kA	55

#### Installation/mounting/dimensions:

<b>Mounting type</b>		fixed mounting
<b>Height</b>	mm	174.5
<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>		screw-type terminals
<b>Type of 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 core 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 core 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:

General Product Approval	Declaration of Conformity	Test Certificates
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[TSE](#)



[Special Test Certificate](#)

#### Shipping Approval



#### other

[Confirmation](#)

[other](#)

[Environmental Confirmations](#)

#### 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/3VL2716-1SE36-0AD1>

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

<http://support.automation.siemens.com/WW/view/en/3VL2716-1SE36-0AD1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL2716-1SE36-0AD1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-1SE36-0AD1)

##### CAX-Online-Generator

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

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**Tender specifications**

[Datanorm](#) [GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)

**last change:**

Oct 1, 2014