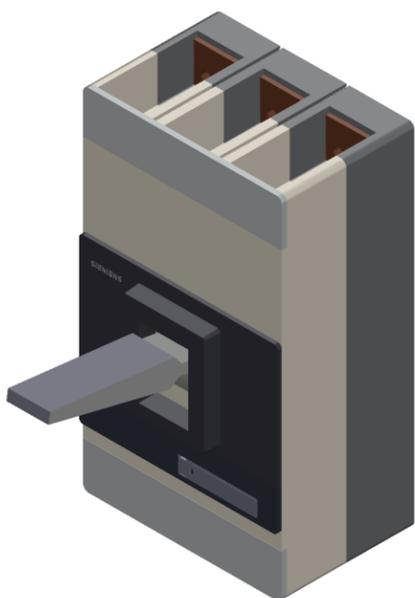


circuit breaker VL1250L very high breaking capacity  $I_{cu}=100\text{kA}$ ,  
415V AC 3-pole, line protection trip unit ETU20, LSI  $I_n=1250\text{A}$ , rated  
current  $I_R=500\dots1250\text{A}$ , overload protection,  $ISD=1.5$  to  $9\times I_R$ ,  
 $I_t=10\times I_N$  short-circuit protection without auxiliary release Auxiliary  
switch mounting kit 4 AUX (2 NO + 2 NC)



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU20

General technical data	
Number of poles	3
Size of the circuit-breaker	3VL7
Electrical endurance (switching cycles) / typical	1 500
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	3 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	30 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

Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LSI

Electricity	
Operating current / at 45 °C / rated value	1 250 A
Continuous current / rated value	1 250 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	1 250 A
• of instantaneous short-circuit trip unit / initial value	12 500 A
• of instantaneous short-circuit trip unit / Full-scale value	12 500 A

Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• rated value / maximum	690 V

<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / maximum</li> </ul>	690 V
Operating current	
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	1 250 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	1 250 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	1 187.5 A
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	1 187.5 A
<ul style="list-style-type: none"> <li>• at 65 °C / rated value</li> </ul>	1 000 A
<ul style="list-style-type: none"> <li>• at 70 °C / rated value</li> </ul>	1 000 A

<b>Auxiliary circuit</b>	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	2
Number of NO contacts / for auxiliary contacts	2

<b>Suitability</b>	
Suitability for use	system/generator protection

<b>Adjustable parameters</b>	
Adjustable pick-up value current / of the short-time delayed short-circuit release / Full-scale value	11 250 A
Adjustable pick-up value current / of the current-dependent overload release / initial value	500 A

<b>Product details</b>	
Product component	
<ul style="list-style-type: none"> <li>• Trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>	No
Product extension / optional / motor drive	Yes

<b>Product function</b>	
Product function	
<ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> </ul>	adjustable
<ul style="list-style-type: none"> <li>• Ground fault protection</li> </ul>	No
<ul style="list-style-type: none"> <li>• for neutral conductors / Short-circuit and overload proof</li> </ul>	No
<ul style="list-style-type: none"> <li>• Overload protection</li> </ul>	Yes

<b>Short circuit</b>	
Operational short-circuit current breaking capacity (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>	100 kA

<ul style="list-style-type: none"> <li>• at 415 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	<p>50 kA</p> <p>38 kA</p> <p>17 kA</p>
<b>Maximum short-circuit current breaking capacity (Icu)</b> <ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 480 V / acc. to NEMA / rated value</li> <li>• at 500 V / rated value</li> <li>• at 600 V / acc. to NEMA / rated value</li> <li>• at 690 V / rated value</li> </ul>	<p>200 kA</p> <p>100 kA</p> <p>75 kA</p> <p>65 kA</p> <p>50 kA</p> <p>35 kA</p> <p>35 kA</p>

### Connections

Arrangement of electrical connectors / for main current circuit	front side
<b>Type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts / solid</li> <li>• for auxiliary contacts / finely stranded / with core end processing</li> </ul>	<p>0.75 ... 1.5 mm<sup>2</sup></p> <p>0,75 ... 1.0 mm<sup>2</sup></p>
Type of electrical connection / for main current circuit	screw-type terminals

### Mechanical Design

Height	406.5 mm
Width	228.5 mm
Depth	333.5 mm
Mounting type	fixed mounting

### Environmental conditions

<b>Ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	<p>-25 °C</p> <p>70 °C</p> <p>-40 °C</p> <p>80 °C</p>
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### Certificates

Certificate of suitability	IEC, very high switching capacity (L)
<b>Reference code</b> <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CCC	 C-Tick	 EG-Konf.	<a href="#">Special Test Certificate</a>

Shipping Approval	other
 RINA	 RMRS

[Miscellaneous](#)
[Environmental Confirmations](#)
[Confirmation](#)

### 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=3VL7712-3SE36-0AC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7712-3SE36-0AC1>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL7712-3SE36-0AC1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7712-3SE36-0AC1)

**CAX-Online-Generator**

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

**Tender specifications**

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