



CIRCUIT-BREAKER VL 250N STANDARD BREAKING CAPACITY R.U.S.-C.BR.C.= 55KA, 415 V AC 3-POLE, MOTOR PROTECTION ELECTRONIC TRIP UNIT ETU30M, LI IN=250A, RATED CURRENT TC= 10A ... 30, TIME LAG CLASS II= 6 ... 11 X IN, SHORT-CIRCUIT PROTECTION WITHOUT AUXILIARY RELEASE WITH BOX TERMINAL

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU30M
General technical data		
Number of poles		3
Size of the circuit-breaker		3VL3
Electrical endurance (switching cycles) / typical		10 000
Usage category		A
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage $U_e$ / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800

Surge voltage resistance / rated value	kV	8
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### Protection class

<b>Protection class IP</b>		IP20
<b>Protective function of the overcurrent release</b>		LI

### Electricity

Continuous current / rated value	A	250
Derating temperature / for the rated value of the continuous current	°C	50
<b>Adjustable response value current</b>		
<ul style="list-style-type: none"> <li>• of the current-dependent overload release / Full-scale value</li> </ul>	A	250
<ul style="list-style-type: none"> <li>• of the instantaneous short-circuit release / initial value</li> </ul>	A	1 500
<ul style="list-style-type: none"> <li>• of the instantaneous short-circuit release / Full-scale value</li> </ul>	A	2 750

### Main circuit

<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>• 1 / rated value</li> </ul>	Hz	50
<ul style="list-style-type: none"> <li>• 2 / rated value</li> </ul>	Hz	60
<b>Operating power / at AC-3</b>		
<ul style="list-style-type: none"> <li>• at 230 V / rated value</li> </ul>	kW	46
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	kW	138.5
<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / maximum</li> </ul>	V	690
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / maximum</li> </ul>	V	690
<ul style="list-style-type: none"> <li>• for main current circuit / at DC / maximum</li> </ul>	V	500
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	A	250
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	A	250
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	A	237.5
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	A	237.5
<ul style="list-style-type: none"> <li>• at 65 °C / rated value</li> </ul>	A	200
<ul style="list-style-type: none"> <li>• at 70 °C / rated value</li> </ul>	A	200

### Auxiliary circuit

Number of CO contacts / for auxiliary contacts		0
<b>Number of NC contacts / for auxiliary contacts</b>		1
<b>Number of NO contacts / for auxiliary contacts</b>		1

### Suitability

<b>Suitability for use</b>		Motor Protection
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## Adjustable parameters

<b>Adjustable response value current / of the current-dependent overload release / initial value</b>	A	100
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## Product details

<b>Product component</b>		
• Trip indicator		No
• Auxiliary switch		Yes
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
<b>Product expansion / optional / motor drive</b>		Yes

## Product function

<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

## 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	20
• at 690 V / rated value	kA	6
<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	25
• at 600 V / acc. to NEMA / rated value	kA	12
• at 690 V / rated value	kA	12

## Connections

<b>Arrangement of electrical connectors / for main current circuit</b>		front side
<b>Type of connectable conductor cross-sections</b>		
• for main contacts		
— with flexible busbar		17 x 10 mm
— solid		25 ... 185 mm <sup>2</sup>
— finely stranded / with core end processing		25 ... 120 mm <sup>2</sup>

— stranded	25 ... 185 mm <sup>2</sup>
• for auxiliary contacts	
— solid	0.75 ... 1.5 mm <sup>2</sup>
— finely stranded / with core end processing	0,75 ... 1.0 mm <sup>2</sup>
Type of electrical connection / for main current circuit	box terminals

Mechanical Design		
Height	mm	185.5
Width	mm	104.5
Depth	mm	106.5
Mounting type		fixed mounting

Environmental conditions		
<b>Ambient temperature</b>		
• during operation / minimum	°C	-25
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

Certificates		
<b>Certificate of suitability</b>		IEC, standard switching capacity (N)
<b>Equipment marking</b>		Q
• acc. to DIN EN 61346-2		

General Product Approval	EMC	Declaration of Conformity
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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/3VL37251SS330AB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL37251SS330AB1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VL37251SS330AB1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL37251SS330AB1)

### **CAX-Online-Generator**

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

### **Tender specifications**

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

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