



CIRCUIT-BREAKER VL 1250L VERY HIGH BREAKING CAPACITY ICU=100KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC TRIP UNIT ETU20, LSI IN=1250A, RATED CURRENT IR=500-1250A, OVERLOAD ISD=1,5TO9XIR, II=10XIN SHORT-CIRCUIT

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
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	30
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

Protection class IP		IP20
Protective function of the overcurrent release		LSI

Electricity

Continuous current / rated value	A	1 250
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable pick-up value current		
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	A	1 250
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	A	12 500
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	A	12 500

Main circuit

Operating frequency		
<ul style="list-style-type: none"> • 1 / rated value 	Hz	50
<ul style="list-style-type: none"> • 2 / rated value 	Hz	60
Operating voltage		
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum 	V	690
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum 	V	690
Operating current		
<ul style="list-style-type: none"> • at 40 °C / rated value 	A	1 250
<ul style="list-style-type: none"> • at 50 °C / rated value 	A	1 250
<ul style="list-style-type: none"> • at 55 °C / rated value 	A	1 187.5
<ul style="list-style-type: none"> • at 60 °C / rated value 	A	1 187.5
<ul style="list-style-type: none"> • at 65 °C / rated value 	A	1 000
<ul style="list-style-type: none"> • at 70 °C / rated value 	A	1 000

Auxiliary circuit

Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		2

Suitability

Suitability for use		system/generator protection
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	A	500
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Product details

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

Product function

Product function		
• of thermal overload trip unit		adjustable
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• Overload protection		Yes

Short circuit

Operational short-circuit current breaking capacity (Ics)		
• at 240 V / rated value	kA	100
• at 415 V / rated value	kA	50
• at 500 V / rated value	kA	38
• at 690 V / rated value	kA	17
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / rated value	kA	200
• at 415 V / rated value	kA	100
• at 440 V / rated value	kA	75
• at 480 V / acc. to NEMA / rated value	kA	65
• at 500 V / rated value	kA	50
• at 600 V / acc. to NEMA / rated value	kA	35
• at 690 V / rated value	kA	35

Connections

Arrangement of electrical connectors / for main current circuit		front side
Type of electrical connection / for main current circuit		screw-type terminals

Mechanical Design

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

Environmental conditions

Ambient temperature		
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- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

°C	-25
°C	70
°C	-40
°C	80

Certificates

Certificate of suitability	IEC, very high switching capacity (L)
Equipment marking	Q
• acc. to DIN EN 61346-2	

General Product Approval EMC



CCC



CSA

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C-TICK

Declaration of Conformity Test Certificates Shipping Approval



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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/3VL77123SE368TE1>

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

<http://support.automation.siemens.com/WW/view/en/3VL77123SE368TE1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL77123SE368TE1

CAX-Online-Generator

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

Tender specifications

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

last modified:

08.06.2016