

CIRCUIT-BREAKER VL 250N STANDARD BREAKING
CAPACITY ICU=55KA / 415 V AC 3 POLE, STARTER
COMBINATION PROTECTION OVERCURRENT
RELEASE MAGNETIC IN=250A, RATED CURRENT
II=1750-3500A, SHORT-CIRCUIT WITH BOX
TERMINAL

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		M
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 Ue / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800
Surge voltage resistance / rated value	kV	8
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		I
Dissipation		
Power loss [W]		
• maximum	W	60
Electricity		
Continuous current / rated value	A	250
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable pick-up value current		

- of instantaneous short-circuit trip unit / initial value
- of instantaneous short-circuit trip unit / Full-scale value

A	1 750
A	3 750

Main circuit

Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating power / at AC-3		
• at 230 V / rated value	kW	46
• at 400 V / rated value	kW	138.5
Operating voltage		
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / maximum	V	690
• for main current circuit / at DC / maximum	V	500
Operating current		
• at 40 °C / rated value	A	250
• at 50 °C / rated value	A	250
• at 55 °C / rated value	A	232.5
• at 60 °C / rated value	A	232.5
• at 65 °C / rated value	A	215
• at 70 °C / rated value	A	215

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		Starter protection
---------------------	--	--------------------

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		without

- Ground fault protection
- for neutral conductors / Short-circuit and overload proof
- Overload protection

No
No
No

Short circuit

Operational short-circuit current breaking capacity (Ics)

- at 240 V / rated value
- at 415 V / rated value
- at 500 V / rated value
- at 690 V / rated value

kA 65
kA 55
kA 20
kA 6

Maximum short-circuit current breaking capacity (Icu)

- at 240 V / rated value
- at 415 V / rated value
- at 440 V / rated value
- at 480 V / acc. to NEMA / rated value
- at 500 V / rated value
- at 600 V / acc. to NEMA / rated value
- at 690 V / rated value

kA 65
kA 55
kA 25
kA 25
kA 25
kA 12
kA 12

Connections

Arrangement of electrical connectors / for main current circuit

front side

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

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

°C 0
°C 70
°C -40
°C 80

Certificates

Certificate of suitability

IEC, standard switching capacity (N)

Equipment marking

- acc. to DIN EN 61346-2

Q

General Product Approval		EMC	Declaration of Conformity
 CCC	sonstig	 EAC	TSE
		 C-TICK	 EG-Konf.

Test Certificates	Shipping Approval				
spezielle Prüfbescheinigung n	 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS

Shipping Approval			other		
 PRS	 RINA	 RMRS	Bestätigungen	Umweltbestätigung	sonstig

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/3VL37251DK338VD1>

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

<http://support.automation.siemens.com/WW/view/en/3VL37251DK338VD1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL37251DK338VD1

CAX-Online-Generator

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

Tender specifications

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

last modified:

03.06.2016