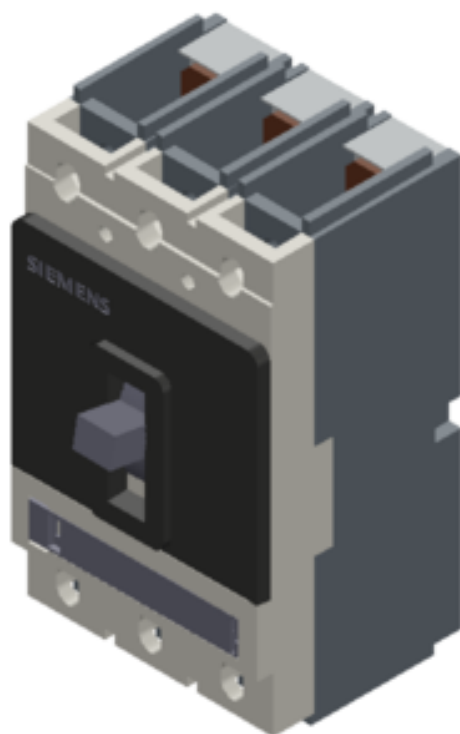




CIRCUIT-BREAKER VL 250H HIGH BREAKING
CAPACITY ICU=70KA / 415 V AC 3 POLE, STARTER
COMBINATION PROTECTION OVERCURRENT
RELEASE MAGNETIC IN=250A, RATED CURRENT
II=1750-3500A, SHORT-CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		M
General technical data		
Number of poles		3
Tripping characteristics / Upper tolerance band		AK_VL250_TM_LIN_u.txt
Tripping characteristics / Lower tolerance band		AK_VL800_TM_I_o.txt
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

Active power loss		
• maximum	W	60

Electricity

Continuous current / Rated value	A	250
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable response value current		
• of the instantaneous short-circuit release / initial value	A	1 750
• of the instantaneous short-circuit release / Full-scale value	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		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
• of the thermal overload release		without
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No
• overload protection		No
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	75
• at 415 V / Rated value	kA	70
• at 500 V / Rated value	kA	30
• at 690 V / Rated value	kA	6
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	100
• at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	50
• at 480 V / acc. to NEMA / Rated value	kA	50
• at 500 V / Rated value	kA	40
• at 600 V / acc. to NEMA / Rated value	kA	12
• at 690 V / Rated value	kA	12
Connections		
Arrangement of electrical connectors / for main current circuit		front side
Type of connectable conductor cross-section		
• for main contacts		
— with flexible busbar		17 x 10 mm
— solid		25 ... 185 mm ²

— finely stranded / with core end processing	25 ... 120 mm ²
— stranded	25 ... 185 mm ²
• for auxiliary contacts	
— solid	0.75 ... 1.5 mm ²
— finely stranded / with core end processing	0,75 ... 1.0 mm ²
Type of electrical connection / for main current circuit	screw-type 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	°C	0
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

Certificates

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

General Product Approval			EMC
 CCC	sonstig	 EAC	 C-TICK
		TSE	KTL

Declaration of Conformity	Test Certificates	Shipping Approval			
 EG-Konf.	spezielle Prüfbescheinigungen n	 ABS	 BUREAU VERITAS	 DNV	 GL

Shipping Approval				other	
 LRS	 PRS	 RINA	 RMRS	Umweltbestätigung	Bestätigungen

other
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/3VL37252DK360AD1>

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

<http://support.automation.siemens.com/WW/view/en/3VL37252DK360AD1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL37252DK360AD1

CAX-Online-Generator

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

Tender specifications

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

last modified:

13.08.2015