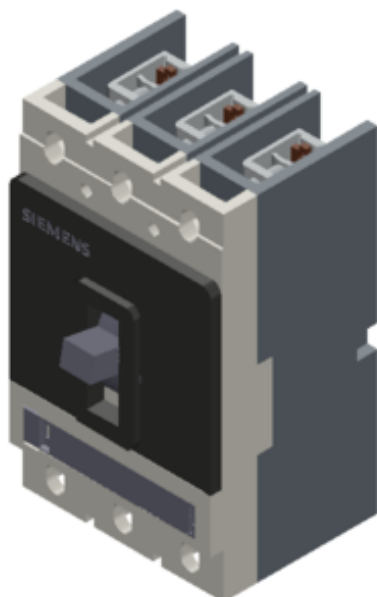


circuit breaker VL160L very high breaking capacity Icu=100kA, 415V
AC 3-pole, starter combination Electronic Trip Unit magnetic
In=100A, rated current II=750...1500A, short-circuit protection without
auxiliary release without auxiliary/alarm switch



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	3VL2
Electrical endurance (switching cycles) / typical	10 000
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	20 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	120 1/s
Voltage	
Rated operational voltage Ue / 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	I
Electricity	
Operating current / at 45 °C / rated value	100 A
Continuous current / rated value	100 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of instantaneous short-circuit trip unit / initial value	700 A
• of instantaneous short-circuit trip unit / Full-scale value	1 500 A
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating power / at AC-3	
• at 230 V / rated value	18.4 kW
• at 400 V / rated value	55.4 kW
Operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
• for main current circuit / at DC / maximum	500 V
Operating current	
• at 40 °C / rated value	100 A
• at 50 °C / rated value	100 A
• at 55 °C / rated value	93 A
• at 60 °C / rated value	93 A
• at 65 °C / rated value	86 A
• at 70 °C / rated value	86 A
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0
Suitability	
Suitability for use	Starter protection

Product details

Product component	
• Trip indicator	No
• Auxiliary switch	No
• Voltage trigger	No
• 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	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	150 kA
• at 415 V / rated value	75 kA
• at 500 V / rated value	38 kA
• at 690 V / rated value	6 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	200 kA
• at 415 V / rated value	100 kA
• at 440 V / rated value	75 kA
• at 480 V / acc. to NEMA / rated value	75 kA
• at 500 V / rated value	50 kA
• at 600 V / acc. to NEMA / rated value	12 kA
• at 690 V / rated value	12 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of connectable conductor cross-sections	
• for main contacts / with flexible busbar	12 x 10 mm
• for main contacts / solid	2.5 ... 95 mm ²
• for main contacts / finely stranded / with core end processing	2.5 ... 50 mm ²
• for main contacts / stranded	2.5 ... 95 mm ²
• for auxiliary contacts / solid	0.75 ... 1.5 mm ²

• for auxiliary contacts / finely stranded / with core end processing	0,75 ... 1.0 mm ²
Type of electrical connection / for main current circuit	box terminal

Mechanical Design

Height	174.5 mm
Width	104.5 mm
Depth	106.5 mm
Mounting type	fixed mounting

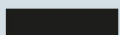
Environmental conditions

Ambient temperature	
• during operation / minimum	0 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates

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

Waste electronic equipment must not be disposed as unsorted municipal waste, e.g. household waste. For disposing the waste electronic equipment it is necessary to observe the current local national/international regulations.



General Product Approval				EMC	Declaration of Conformity
	Miscellaneous	TSE	KC		
CCC				C-Tick	EG-Konf.

Test Certificates		Shipping Approval			
Type Test Certificates/Test Report	Special Test Certificate				
		ABS	BUREAU VERITAS	LRS	PRS

Shipping Approval		other			
		Environmental Conformations	Confirmation	Manufacturer Declaration	Miscellaneous
RINA	RMRS				

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=3VL2710-3DK33-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2710-3DK33-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2710-3DK33-0AA0

CAX-Online-Generator

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

Tender specifications

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