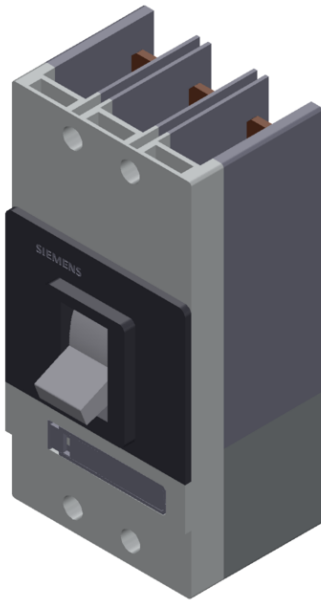


CIRCUIT-BREAKER VL 400L VERY HIGH BREAKING CAPACITY
ICU=100KA / 415 V AC 3 POLE, LINE PROTECTION
OVERCURRENT RELEASE TM, LI IN=315A, RATED CURRENT
IR=250-315A, OVERLOAD II=1575-3150A, SHORT CIRCUIT



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM

General technical data	
Number of poles	3
Size of the circuit-breaker	3VL4
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 identifier / 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 U_e / 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	LI

Dissipation	
Power loss [W]	
• maximum	120 W

Electricity	
Operating current / at 45 °C / rated value	315 A
Continuous current / rated value	315 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	315 A
• of instantaneous short-circuit trip unit / initial value	1 575 A
• of instantaneous short-circuit trip unit / Full-scale value	3 150 A

Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz

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	315 A
• at 50 °C / rated value	315 A
• at 55 °C / rated value	293 A
• at 60 °C / rated value	293 A
• at 65 °C / rated value	270.9 A
• at 70 °C / rated value	270.9 A

Suitability

Suitability for use	system protection
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	252 A
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Product details

Product component	
• Trip indicator	Yes
• Auxiliary switch	Yes
• 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	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	150 kA
• at 415 V / rated value	75 kA
• at 500 V / rated value	38 kA
• at 690 V / rated value	8 kA

Maximum short-circuit current breaking capacity (I _{cu})	
<ul style="list-style-type: none"> • 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 	<p>200 kA</p> <p>100 kA</p> <p>75 kA</p> <p>75 kA</p> <p>50 kA</p> <p>20 kA</p> <p>15 kA</p>

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	279.5 mm
Width	139 mm
Depth	163.5 mm
Mounting type	fixed mounting





Environmental conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	<p>0 °C</p> <p>70 °C</p> <p>-40 °C</p> <p>80 °C</p>

Certificates

Certificate of suitability	IEC, very high switching capacity (L)
Reference identifier	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 	Q

General Product Approval		EMC	Declaration of Conformity	Test Certificates
 CCC	Miscellaneous	KC	 C-Tick	 EG-Konf.
				Special Test Certificate

Shipping Approval					
 ABS	 BUREAU VERITAS	 LRS	 PRS	 RINA	 RMRS

other		
Confirmation	Miscellaneous	Environmental Confirmations

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=3VL4731-3DC36-0AD1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4731-3DC36-0AD1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4731-3DC36-0AD1

CAX-Online-Generator

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

Tender specifications

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