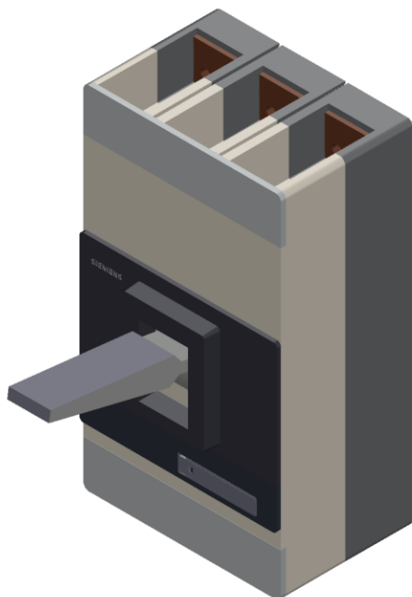


circuit breaker VL1600N standard breaking capacity $I_{cu}=55kA$, 415V
AC 3-pole, non-auto. air circ. br. trip unit magnetic $I_n=1600A$, rated
current $I_l=14400A$, short-circuit protection without auxiliary release
Auxiliary switch mounting kit 4 AUX (2 NO + 2 NC)



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	3VL8
Electrical endurance (switching cycles) / typical	1 500
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	3 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	30 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	I
Electricity	
Operating current / at 45 °C / rated value	1 600 A
Continuous current / rated value	1 600 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	14 400 A
• of instantaneous short-circuit trip unit / Full-scale value	14 400 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	1 600 A
• at 50 °C / rated value	1 600 A
• at 55 °C / rated value	1 488 A
• at 60 °C / rated value	1 488 A
• at 65 °C / rated value	1 376 A
• at 70 °C / rated value	1 376 A
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	2
Number of NO contacts / for auxiliary contacts	2
Suitability	
Suitability for use	non-automatic circuit-breakers
Product details	
Product component	
• Trip indicator	No
• 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	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	35 kA
• at 415 V / rated value	28 kA
• at 500 V / rated value	20 kA
• at 690 V / rated value	10 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	65 kA

• at 415 V / rated value	55 kA
• at 440 V / rated value	35 kA
• at 480 V / acc. to NEMA / rated value	25 kA
• at 500 V / rated value	25 kA
• at 600 V / acc. to NEMA / rated value	20 kA
• at 690 V / rated value	20 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of connectable conductor cross-sections	
• 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	without connection accessoires

Mechanical Design

Height	406.5 mm
Width	228.5 mm
Depth	333.5 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, standard switching capacity (N)
Reference code	
• acc. to DIN EN 61346-2	Q

General Product Approval		EMC	Test Certificates	Shipping Approval
	Miscellaneous	TSE		Special Test Certificate
CCC		C-Tick		
				ABS

Shipping Approval					other
					Confirmation
BUREAU VERITAS	LRS	PRS	RINA	RMRS	

other	
Environmental Confirmations	Miscellaneous

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=3VL8716-1DE30-0AC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL8716-1DE30-0AC1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL8716-1DE30-0AC1

CAX-Online-Generator

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

Tender specifications

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