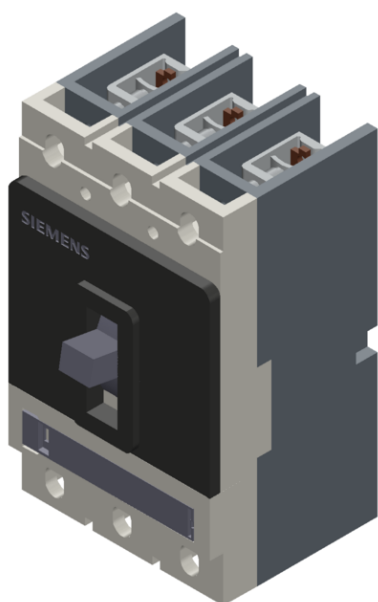


Circuit breaker VL160N Standard switching capacity $I_{cu}=55\text{ kA}$, 415V
AC 3-pole, system protection Overcurrent release ETU20, LSI
 $I_n=160\text{ A}$, Rated current $I_R=64\ldots 160\text{ A}$, Overload protection, $ISD=1.5$
to $10\times I_R$, $II=11\times I_n$ Short-circuit protection without auxiliary release



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU20
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 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	LSI
Dissipation	
Power loss [W]	
• maximum	40 W
Electricity	
Operating current / at 45 °C / rated value	160 A
Continuous current / rated value	160 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	160 A
• of instantaneous short-circuit trip unit / initial value	1 760 A
• of instantaneous short-circuit trip unit / Full-scale value	1 760 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	160 A
• at 50 °C / rated value	160 A
• at 55 °C / rated value	152 A
• at 60 °C / rated value	152 A
• at 65 °C / rated value	128 A
• at 70 °C / rated value	128 A
Suitability	
Suitability for use	system/generator protection
Adjustable parameters	
Adjustable pick-up value current / of the short-time delayed short-circuit release / Full-scale value	1 600 A
Adjustable pick-up value current / of the current-dependent overload release / initial value	64 A
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	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	65 kA
• at 415 V / rated value	55 kA

• at 500 V / rated value	20 kA
• at 690 V / rated value	6 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	25 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	12 kA
• at 690 V / rated value	12 kA

Connections	
Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	box terminals

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

Certificates	
Certificate of suitability	IEC, standard switching capacity (N)
Reference identifier	
• acc. to DIN EN 61346-2	Q

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

[Miscellaneous](#)

[TSE](#)

[Special Test Certificate](#)

Shipping Approval	other
 RINA	 RMRS

[Miscellaneous](#)

[Environmental Confirmations](#)

[Confirmation](#)

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=3VL2716-1SE33-0AA0	

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2716-1SE33-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-1SE33-0AA0

CAX-Online-Generator

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

Tender specifications

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