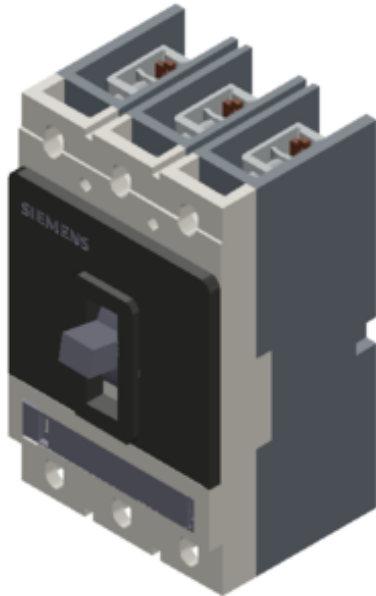


CIRCUIT-BREAKER VL 160N STANDARD BREAKING CAPACITY
 ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION
 OVERCURRENT RELEASE TM, LI IN=80A, RATED CURRENT
 IR=63-80A, OVERLOAD II=400-800A, SHORT CIRCUIT



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	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
Equipment marking / 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
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Protection class

Protection class IP	IP20
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Protective function of the overcurrent release	LI
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Electricity

Continuous current / rated value	80 A
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Derating temperature / for the rated value of the continuous current	50 °C
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Adjustable pick-up value current	
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	80 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	400 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	800 A

Main circuit

Operating frequency	
<ul style="list-style-type: none"> • 1 / rated value 	50 Hz
<ul style="list-style-type: none"> • 2 / rated value 	60 Hz

Operating voltage	
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at DC / maximum 	500 V

Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value 	80 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	80 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	74.4 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	74.4 A
<ul style="list-style-type: none"> • at 65 °C / rated value 	68.8 A
<ul style="list-style-type: none"> • at 70 °C / rated value 	68.8 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	64 A
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Product details

Product component	
<ul style="list-style-type: none"> • Trip indicator 	No
<ul style="list-style-type: none"> • 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	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

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)

Equipment marking

• acc. to DIN EN 61346-2

Q

General Product Approval

EMC

Declaration of Conformity



CCC

[sonstig](#)

[TSE](#)

[KTL](#)



C-Tick



EG-Konf.

Test

Certificates

Shipping Approval

[spezielle](#)

[Prüfbescheinigung](#)

[n](#)



ABS



BUREAU
VERITAS

Lloyd's
Register

LRS



PRS



RINA

Shipping Approval

other



RMRS

[sonstig](#)

[Bestätigungen](#)

[Umweltbestätigung](#)

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?mfb=3VL2708-1DC33-0AB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL2708-1DC33-0AB1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL2708-1DC33-0AB1

CAX-Online-Generator

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

Tender specifications

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