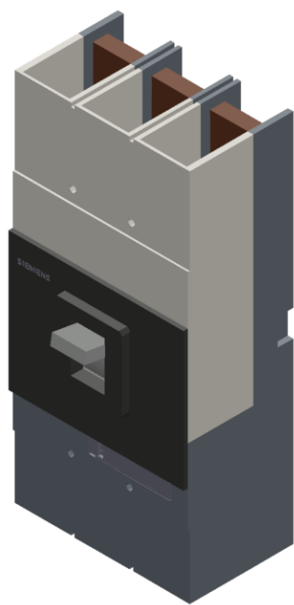


circuit breaker VL800N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection trip unit ETU10, LI In=800A, rated current IR=320...800A, overload protection, II=1.25 to 8 xIN, short-circuit protection without auxiliary release Auxiliary switch mounting kit 4 AUX (2 NO + 2 NC)



Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU10
General technical data	
number of poles	3
size of the circuit-breaker	3VL6
mechanical service life (switching cycles) / typical	10 000

electrical endurance (switching cycles) / typical	3 000
utilization category	A
performance class for circuit breaker	N
reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
operating frequency / maximum	60 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
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

Protection class

protection class IP	IP20
protection function of the overcurrent release	LI

Current

continuous current / rated value	800 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable current response value current	
• of the current-dependent overload release / full- scale value	800 A
• of instantaneous short-circuit trip unit / initial value	1 000 A
• of instantaneous short-circuit trip unit / full-scale value	6 400 A

Main circuit

operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
operational current	
• at 40 °C / rated value	800 A
• at 50 °C / rated value	800 A
• at 55 °C / rated value	760 A
• at 60 °C / rated value	760 A
• at 65 °C / rated value	640 A

- at 70 °C / rated value

640 A

Auxiliary circuit

- number of CO contacts / for auxiliary contacts
- number of NC contacts / for auxiliary contacts
- number of NO contacts / for auxiliary contacts

0
2
2

Suitability

suitability for use

system protection

Adjustable parameters

adjustable current response value current / of the
current-dependent overload release / initial value

320 A

Product details

product component

- trip indicator
- auxiliary switch
- voltage trigger
- undervoltage release
- undervoltage release with leading contact

No
Yes
No
No
No

product extension / optional / motor drive

Yes

Product function

product function

- of thermal overload trip unit
- grounding protection
- for neutral conductors / short-circuit and
overload proof
- overload protection

adjustable
No
No
Yes

Short circuit

breaking capacity operating short-circuit current (Ics)

- at 240 V / rated value
- at 415 V / rated value
- at 500 V / rated value
- at 690 V / rated value

65 kA
55 kA
20 kA
10 kA

breaking capacity maximum short-circuit current (Icu)

- 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

65 kA
55 kA
35 kA
25 kA
25 kA
20 kA
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
• finely stranded / with core end processing	0,75 ... 1.0 mm ²
type of electrical connection / for main current circuit	screw-type terminals

Mechanical Design

height	406.5 mm
width	190 mm
depth	176.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• 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	Declaration of Conformity	
	Miscellaneous		TSE		
CSA		CCC		C-Tick	EG-Konf.

Test Certificates	Shipping Approval		other		
Special Test Certificate			Environmental Confirmations	Miscellaneous	Confirmation
	RINA	RMRS			

other
Manufacturer Declaration

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=3VL6780-1SB36-0AC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6780-1SB36-0AC1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-1SB36-0AC1

CAX-Online-Generator

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

Tender specifications

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