

circuit breaker VL800N standard breaking capacity $I_{cu}=55kA$, 415V AC 3-pole, line protection trip unit ETU10, $I_n=800A$, rated current $I_R=320\dots800A$, overload protection, $I_l=1.25$ to 8 x I_n , short-circuit protection without auxiliary release without auxiliary/alarm switch

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	
operational current	
• at 40 °C / rated value	800 A
• at 45 °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
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 / minimum	1 000 A
• of instantaneous short-circuit trip unit / maximum	6 400 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz

Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
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	
<ul style="list-style-type: none"> • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact 	<ul style="list-style-type: none"> No No No No No
product extension / optional / motor drive	Yes
Product function	
product function	
<ul style="list-style-type: none"> • of thermal overload trip unit • grounding protection • for neutral conductors / short-circuit and overload proof • overload protection 	<ul style="list-style-type: none"> adjustable No No Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value 	<ul style="list-style-type: none"> 65 kA 55 kA 20 kA 10 kA
breaking capacity maximum short-circuit current (Icu)	
<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 	<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing 	<ul style="list-style-type: none"> 0.75 ... 1.5 mm² 0,75 ... 1.0 mm²
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	
<ul style="list-style-type: none"> • minimum • maximum 	<ul style="list-style-type: none"> -25 °C 70 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	<ul style="list-style-type: none"> -40 °C 80 °C


[Miscellaneous](#)
[TSE](#)


Declaration of Conformity

Test Certificates

Marine / Shipping

other



EG-Konf.

[Special Test Certificate](#)


RINA



RMRS



DNV-GL

[Miscellaneous](#)

other

[Confirmation](#)
[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=3VL6780-1SB36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6780-1SB36-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-1SB36-0AA0

CAx-Online-Generator

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

Tender specifications

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

