

circuit breaker VL800H high breaking capacity I_{cu}=70kA, 415V AC 4-pole, non-auto. air circ. br. trip unit magnetic I_n=800A, rated current I_I=6500A, short-circuit protection without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	M
General technical data	
number of poles	4
size of the circuit-breaker	3VL6
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) typical	3 000
utilization category	A
performance class for circuit breaker	N
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
operating frequency maximum	60 1/s
Voltage	
Rated operational voltage U _e max.	690 V
<ul style="list-style-type: none"> insulation voltage rated value insulation voltage (U_i) at AC rated value 	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> rated value maximum for main current circuit at AC at 50 Hz maximum for main current circuit at AC at 60 Hz maximum for main current circuit at DC maximum 	690 V 690 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	I
Main circuit	
operating frequency <ul style="list-style-type: none"> 1 rated value 2 rated value 	50 Hz 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	non-automatic circuit-breakers
Product details	
product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact 	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 	without No No

- overload protection

No

Short circuit

operating short-circuit current breaking capacity (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 	<p>75 kA</p> <p>70 kA</p> <p>30 kA</p> <p>10 kA</p>
maximum short-circuit current breaking capacity (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 according to NEMA rated value • at 500 V rated value • at 600 V according to NEMA rated value • at 690 V rated value 	<p>100 kA</p> <p>70 kA</p> <p>50 kA</p> <p>50 kA</p> <p>40 kA</p> <p>30 kA</p> <p>20 kA</p>

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 	<p>0.75 ... 1.5 mm²</p> <p>0,75 ... 1.0 mm²</p>
type of electrical connection for main current circuit	screw-type terminals

Mechanical Design

height	406.5 mm
width	253.5 mm
depth	176.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature during operation	
<ul style="list-style-type: none"> • minimum • maximum 	<p>0 °C</p> <p>70 °C</p>
ambient temperature during storage	
<ul style="list-style-type: none"> • minimum • maximum 	<p>-40 °C</p> <p>80 °C</p>

Approvals Certificates

General Product Approval



EG-Konf.



[Confirmation](#)



CCC



VDE

[Miscellaneous](#)

General Product Approval

Test Certificates

Marine / Shipping

other



[Type Test Certificates/Test Report](#)



DNV



LRS

[Miscellaneous](#)

[Confirmation](#)

Environment

[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3VL6780-2EE46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL6780-2EE46-0AA0>

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

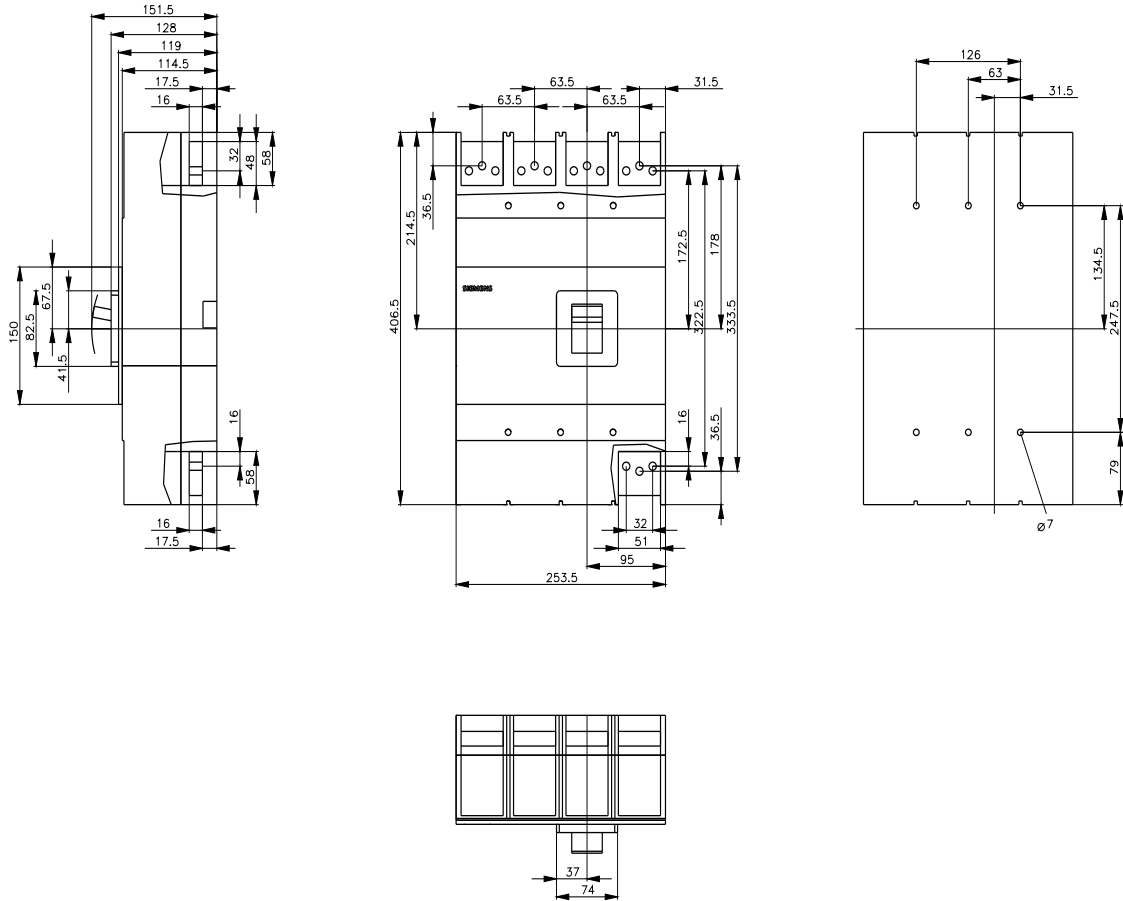
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-2EE46-0AA0

CAX-Online-Generator

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

Tender specifications

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



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