

circuit breaker VL250N standard breaking capacity  $I_{cu}=55kA$ , 415V AC 4-pole, line protection Electronic Trip Unit TM, LI  $I_n=200A$ , rated current  $I_R=160\dots200A$ , overload protection,  $I_l=1000\dots2000A$ , short-circuit protection N unprotected without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	TM
General technical data	
number of poles	4
size of the circuit-breaker	3VL3
mechanical service life (switching cycles) / typical	20 000
electrical endurance (switching cycles) / typical	10 000
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	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
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
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
• at 40 °C / rated value	200 A
• at 45 °C / rated value	200 A
• at 50 °C / rated value	200 A
• at 55 °C / rated value	186 A
• at 60 °C / rated value	186 A
• at 65 °C / rated value	172 A
• at 70 °C / rated value	172 A
continuous current / rated value	200 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	200 A
• of instantaneous short-circuit trip unit / initial value	1 000 A
• of instantaneous short-circuit trip unit / full-scale value	2 000 A
Main circuit	

operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
<b>Suitability</b>	
suitability for use	system protection
<b>Adjustable parameters</b>	
adjustable current response value current / of the current-dependent overload release / initial value	160 A
<b>Product details</b>	
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
<b>Product function</b>	
product function	
• of thermal overload trip unit	adjustable
• grounding protection	No
• for neutral conductors / short-circuit and overload proof	No
• overload protection	Yes
<b>Short circuit</b>	
breaking capacity operating short-circuit current (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
breaking capacity maximum short-circuit current (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
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	front side
type of connectable conductor cross-sections / for main contacts	
• with flexible busbar	17 x 10 mm
• solid	25 ... 185 mm <sup>2</sup>
• finely stranded / with core end processing	25 ... 120 mm <sup>2</sup>
• stranded	25 ... 185 mm <sup>2</sup>
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	0.75 ... 1.5 mm <sup>2</sup>
• finely stranded / with core end processing	0,75 ... 1.0 mm <sup>2</sup>
type of electrical connection / for main current circuit	screw-type terminals
<b>Mechanical Design</b>	
height	185.5 mm
width	139.5 mm

depth	106.5 mm
fastening method	fixed mounting
<b>Environmental conditions</b>	
ambient temperature / during operation	
• minimum	0 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
<b>Certificates</b>	
certificate of suitability	IEC, standard switching capacity (N)
reference code	
• acc. to DIN EN 61346-2	Q
<b>General Product Approval</b>	<b>EMC</b>



[Miscellaneous](#)

[TSE](#)

[KC](#)



<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>Marine / Shipping</b>			
----------------------------------	--------------------------	--------------------------	--	--	--



[Special Test Certificate](#)



<b>Marine / Shipping</b>	<b>other</b>				
--------------------------	--------------	--	--	--	--



[Manufacturer Declaration](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

<b>other</b>
--------------

[Confirmation](#)

[Miscellaneous](#)

<b>Further information</b>
----------------------------

**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=3VL3720-1EJ46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3720-1EJ46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL3720-1EJ46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3720-1EJ46-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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

