

circuit breaker VL1250N standard breaking capacity I_{cu}=55kA, 415V AC 4-pole, non-auto. air circ. br. trip unit magnetic I_n=1250A, rated current I_I=12000A, short-circuit protection without auxiliary release Auxiliary/alarm switch mounting kit 2 AUX (1 NO+1 NC)+1 AS (1 NO)

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	3VL7
mechanical service life (operating cycles) typical	3 000
electrical endurance (operating cycles) typical	1 500
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	30 1/s
Voltage	
Rated operational voltage U _e max.	690 V
- insulation voltage rated value - insulation voltage (U_i) at AC rated value	800 V
surge voltage resistance rated value	8 kV
operating voltage - 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 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	1
number of NO contacts for auxiliary contacts	2
Suitability	
suitability for use	non-automatic circuit-breakers
Product details	
product component - trip indicator - auxiliary switch - voltage trigger - undervoltage release - undervoltage release with leading contact	Yes Yes No No No
product extension optional motor drive	Yes
Product function	
product function - of thermal overload trip unit - grounding protection	without No

• for neutral conductors short-circuit and overload proof	No
• overload protection	No

Short circuit

operating short-circuit current breaking capacity (Ics)	
• at 240 V rated value	35 kA
• at 415 V rated value	28 kA
• at 500 V rated value	20 kA
• at 690 V rated value	10 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	35 kA
• at 480 V according to NEMA rated value	25 kA
• at 500 V rated value	25 kA
• at 600 V according to NEMA rated value	20 kA
• at 690 V rated value	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	305 mm
depth	333.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature during operation	
• minimum	0 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	80 °C

Approvals Certificates

General Product Approval	Declaration of Conformity
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[Confirmation](#)

[Miscellaneous](#)



EG-Konf.

Test Certificates	Marine / Shipping
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[Special Test Certificate](#)



Marine / Shipping	other	Environment
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[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>
 Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VL7712-1EE46-0AE1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7712-1EE46-0AE1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7712-1EE46-0AE1

CAX-Online-Generator

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

Tender specifications

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

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