

circuit breaker VL1250N standard breaking capacity $I_{cu}=55\text{kA}$, 415V AC 3-pole, line protection trip unit ETU20, LSI $I_n=1250\text{A}$, rated current $I_R=500\ldots1250\text{A}$, overload protection, $ISD=1.5$ to $9\times I_R$, $II=10\times I_N$ short-circuit protection Undervoltage release 220...250 V AC without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU20
General technical data	
number of poles	3
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	690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LSI
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	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use	system/generator protection
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	500 A
Product details	
product component - trip indicator - auxiliary switch - voltage trigger - undervoltage release - undervoltage release with leading contact	No
	No
	No
	Yes
	No
product extension optional motor drive	Yes
Product function	
product function of thermal overload trip unit	adjustable

- grounding protection
- for neutral conductors short-circuit and overload proof
- overload protection

No
No
Yes

Short circuit

operating short-circuit current breaking capacity (Ics)

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

35 kA
28 kA
20 kA
10 kA

maximum short-circuit current breaking capacity (Icu)

- 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

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
- finely stranded with core end processing

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

228.5 mm

depth

333.5 mm

fastening method

fixed mounting

Environmental conditions

ambient temperature during operation

- minimum
- maximum

-25 °C
70 °C

ambient temperature during storage

- minimum
- maximum

-40 °C
80 °C

Approvals Certificates

General Product Approval

EMC

[Confirmation](#)

[Miscellaneous](#)



[TSE](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Special Test Certificate](#)



other

Environment

[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=3VL7712-1SE36-2HA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7712-1SE36-2HA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7712-1SE36-2HA0

CAX-Online-Generator

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

Tender specifications

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

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