

circuit breaker VL1250H high breaking capacity I<sub>cu</sub>=70kA, 415V AC 4-pole, line protection trip unit ETU12, LIG I<sub>n</sub>=1250A, rated current I<sub>R</sub>=500...1250A, overload protection, I<sub>I</sub>=1.25 to 10xI<sub>N</sub>, short-circuit protection N protected without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU12
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 <sub>e</sub> max.	690 V
<ul style="list-style-type: none"> <li>insulation voltage rated value</li> <li>insulation voltage (U<sub>i</sub>) at AC rated value</li> </ul>	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> <li>rated value maximum</li> <li>for main current circuit at AC at 50 Hz maximum</li> <li>for main current circuit at AC at 60 Hz maximum</li> </ul>	690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LING
Main circuit	
operating frequency <ul style="list-style-type: none"> <li>1 rated value</li> <li>2 rated value</li> </ul>	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 protection
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	500 A
Product details	
product component <ul style="list-style-type: none"> <li>trip indicator</li> <li>auxiliary switch</li> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> </ul>	No
	No
	No
	No
	No
product extension optional motor drive	Yes
Product function	
product function <ul style="list-style-type: none"> <li>of thermal overload trip unit</li> </ul>	adjustable

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

Yes  
Yes  
Yes

#### Short circuit

operating short-circuit current breaking capacity (Ics)

- at 240 V rated value 50 kA
- at 415 V rated value 35 kA
- at 500 V rated value 30 kA
- at 690 V rated value 15 kA

maximum short-circuit current breaking capacity (Icu)

- at 240 V rated value 100 kA
- at 415 V rated value 70 kA
- at 440 V rated value 50 kA
- at 480 V according to NEMA rated value 50 kA
- at 500 V rated value 40 kA
- at 600 V according to NEMA rated value 30 kA
- at 690 V rated value 30 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<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

#### Mechanical Design

height 406.5 mm

width 305 mm

depth 333.5 mm

fastening method fixed mounting

#### Environmental conditions

ambient temperature during operation

- minimum -25 °C
- maximum 70 °C

ambient temperature during storage

- minimum -40 °C
- maximum 80 °C

#### Approvals Certificates

General Product Approval

Test Certificates



[Confirmation](#)



[Special Test Certificate](#)

Marine / Shipping

other



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

Dangerous Good

Environment

[Transport Information](#)

[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=3VL7712-2TN46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7712-2TN46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL7712-2TN46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7712-2TN46-0AA0)

CAX-Online-Generator

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

Tender specifications

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

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