

circuit breaker VL1250N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection trip unit ETU20, LSI In=1000A, rated current IR=400...1000A, overload protection, ISD=1.5 to 10xIR, II=11 xIN short-circuit protection N protected Shunt release 208...277 V AC Auxiliary switch mounting kit 4 AUX (2 NO + 2 NC)

Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU20
General technical data	
number of poles	4
size of the circuit-breaker	3VL7
mechanical service life (switching cycles) / typical	3 000
electrical endurance (switching 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 Ue / max.	690 V
- insulation voltage / rated value - insulation voltage (Ui) / 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	LSIN
Current	
operational current	
- at 40 °C / rated value - at 45 °C / rated value - at 50 °C / rated value - at 55 °C / rated value - at 60 °C / rated value - at 65 °C / rated value - at 70 °C / rated value	1 000 A
continuous current / rated value	1 000 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 - of instantaneous short-circuit trip unit / minimum - of instantaneous short-circuit trip unit / maximum	1 000 A
	11 000 A
	11 000 A
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	2
number of NO contacts / for auxiliary contacts	2
Suitability	
suitability for use	system/generator protection
Adjustable parameters	
adjustable current response value current / of the short-time delayed short-circuit release / full-scale value	10 000 A
adjustable current response value current / of the current-dependent overload release / initial value	40 A
Product details	
product component	
• trip indicator	No
• auxiliary switch	Yes
• voltage trigger	Yes
• undervoltage release	No
• undervoltage release with leading contact	No
product extension / optional / motor drive	Yes
Product function	
product function	
• of thermal overload trip unit	adjustable
• grounding protection	No
• for neutral conductors / short-circuit and overload proof	Yes
• overload protection	Yes
Short circuit	
breaking capacity operating short-circuit current (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
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	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	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
General Product Approval	
EMC	

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[UK Declaration of
Conformity](#)



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firmations](#)

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Further information

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=3VL7710-1TF46-8TC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7710-1TF46-8TC1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7710-1TF46-8TC1

CAX-Online-Generator

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

Tender specifications

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



