

circuit breaker VL1250N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection trip unit ETU10, LI In=1000A, rated current IR=400...1000A, overload protection, II=1.25 to 11xIN, short-circuit protection Undervoltage release 440...480 V AC Auxiliary switch mounting kit 4 AUX (2 NO + 2 NC) Motorized operating mechanism set up 220-250 V AC/DC

Model	
design of the actuating element	toggle handle
type of the driving mechanism motor drive	Yes
design of the overcurrent release	ETU10
General technical data	
number of poles	3
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	Q
according to IEC 204-2 according to IEC 750	
operating frequency maximum	30 1/s
Voltage	
Rated operational voltage Ue max.	690 V
• insulation voltage rated value	800 V
• insulation voltage (Ui) 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
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
• at 40 °C rated value	1 000 A
• at 45 °C rated value	1 000 A
• at 50 °C rated value	1 000 A
• at 55 °C rated value	950 A
• at 60 °C rated value	950 A
• at 65 °C rated value	800 A
• at 70 °C rated value	800 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	1 000 A
• of instantaneous short-circuit trip unit minimum	1 250 A
• of instantaneous short-circuit trip unit maximum	11 000 A
Main circuit	
operating frequency	
• 1 rated value	50 Hz
• 2 rated value	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 protection
Adjustable parameters	
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	No
• undervoltage release	Yes
• undervoltage release with leading contact	No
product extension optional motor drive	No
Product function	
product function	
• of thermal overload trip unit	adjustable
• grounding protection	No
• for neutral conductors short-circuit and overload proof	No
• 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	228.5 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
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=3VL7710-1SB36-2KC1-Z M22>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7710-1SB36-2KC1-Z M22>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7710-1SB36-2KC1-Z M22

CAX-Online-Generator

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

Tender specifications

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



