

CIRCUIT-BREAKER VL 1250N STANDARD BREAKING CAPACITY
ICU=55KA / 415 V AC 4 POLE, LINE PROTECTION ELECTRONIC
TRIP UNIT ETU20, LSI IN=1000A, RATED CURRENT IR=400-
1000A, OVERLOAD ISD=1,5TO10XIR, II=11XIN SHORT-CIRCUIT N
PROTECTED

Model	
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	Yes
Design of the overcurrent release	ETU20
General technical data	
Number of poles	4
Size of the circuit-breaker	3VL7
Electrical endurance (switching cycles) / typical	1 500
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	3 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	30 1/s
Voltage	
Rated operational voltage Ue / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V
Surge voltage resistance / rated value	8 kV
Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LSIN
Electricity	
Continuous current / rated value	1 000 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	1 000 A
• of instantaneous short-circuit trip unit / initial value	11 000 A

• of instantaneous short-circuit trip unit / Full-scale value	11 000 A
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
Operating current	
• at 40 °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
Suitability	
Suitability for use	system/generator protection
Adjustable parameters	
Adjustable pick-up value current / of the current-dependent overload release / initial value	40 A
Product details	
Product component	
• Trip indicator	Yes
• 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
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	Yes
• Overload protection	Yes
Short circuit	

Operational 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 / acc. to NEMA / rated value	25 kA
• at 500 V / rated value	25 kA
• at 600 V / acc. 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 electrical connection / for main current circuit	screw-type terminals
Mechanical Design	
Height	406.5 mm
Width	305 mm
Depth	333.5 mm
Mounting type	fixed mounting
Environmental conditions	
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C
Certificates	
Certificate of suitability	IEC, standard switching capacity (N)
Equipment marking	
• acc. to DIN EN 61346-2	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CCC	 C-Tick	 EG-Konf.	spezielle Prüfbescheinigungen
sonstig	TSE		n

Shipping Approval	other
 RINA	 RMRS
	sonstig
	Umweltbestätigung
	Bestätigungen

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=3VL7710-1TF46-2JE1-Z M22>

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

<http://support.automation.siemens.com/WW/view/en/3VL7710-1TF46-2JE1-Z M22/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7710-1TF46-2JE1-Z M22

CAX-Online-Generator

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

Tender specifications

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