SIEMENS

Data sheet

3VL7712-1TF46-0AA0

circuit breaker VL1250N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection trip unit ETU20, LSI In=1250A, rated current IR=500...1250A, overload protection, ISD=1.5 to 9xIR, II=10xIN short-circuit protection N protected without auxiliary release without auxiliary/alarm switch

Model	without auxiliary release 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	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 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	LSIN
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	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	No
auxiliary switch	No
voltage trigger	No
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

 arounding protoction 	No		
 grounding protection for neutral conductors short-circuit and overload proof 	Yes		
overload protection	Yes		
Short circuit	103		
operating short-circuit current breaking capacity (lcs)			
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 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 mm²		
 finely stranded with core end processing 	0,75 1.0 mm²		
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		_	
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Confirmation			Special Test Certific-
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Further information

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