SIEMENS

Data sheet

3VL1708-1DD33-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=80A, rated current Ir=63...80A, overload prot. II=1000A, short-circuit prot. without auxiliary release without auxiliary/alarm switch

Model	II – 1000A, Short-circuit prot. without auxiliary release without auxiliary/alarm switch
type of the driving mechanism motor drive	No
design of the overcurrent release	TM
General technical data	
number of poles	3
size of the circuit-breaker	3VL1
mechanical service life (operating cycles) typical	20 000
electrical endurance (operating cycles) typical	10 000
utilization category	A
performance class for circuit breaker	N N
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
operating frequency maximum	120 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
for main current circuit at DC maximum	500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
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 protection
Adjustable parameters	System protection
adjustable current response value current of the current- dependent overload release initial value	64 A
Product details	
product component	
• trip indicator	No
auxiliary switch	No
voltage trigger	No
undervoltage release	No
undervoltage release undervoltage release with leading contact	No
product extension optional motor drive	Yes
	100
Product function	
product function	

a of thormal avarland trip unit	adjustable
of thermal overload trip unit	adjustable
grounding protection	No
for neutral conductors short-circuit and overload proof	No
overload protection	Yes
Short circuit	
operating short-circuit current breaking capacity (lcs)	
• at 240 V rated value	65 kA
 at 415 V rated value 	55 kA
 at 500 V rated value 	14 kA
at 690 V rated value	4 kA
maximum short-circuit current breaking capacity (lcu)	
 at 240 V rated value 	65 kA
at 415 V rated value	55 kA
at 440 V rated value	25 kA
 at 480 V according to NEMA rated value 	25 kA
• at 500 V rated value	18 kA
 at 600 V according to NEMA rated value 	8 kA
 at 690 V rated value 	8 kA
Connections	
arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections for main contacts	
 with flexible busbar 	12 x 10 mm
• solid	2.5 95 mm²
 finely stranded with core end processing 	2.5 50 mm²
• stranded	2.5 95 mm²
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	box terminal
Mechanical Design	
height	157.5 mm
width	104.5 mm
depth	106.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature during operation	
• minimum	0 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	0° 08
Approvals Certificates	
General Product Approval	

General Product Approva

Confirmation











General Product Approval

Test Certificates

Marine / Shipping

other

Miscellaneous



Type Test Certificates/Test Report





Confirmation

other Environment

<u>Miscellaneous</u> <u>Environmental Con-</u> <u>Environmental Con-</u>

Information on the packaging

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=3VL1708-1DD33-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VL1708-1DD33-0AA0

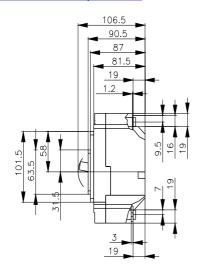
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1708-1DD33-0AA0

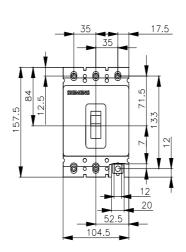
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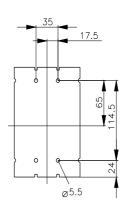
http://www.siemens.com/cax

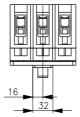
Tender specifications

http://www.siemens.com/specifications









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