SIEMENS

Data sheet

3VL1710-1DD33-0AA0

circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=100A, rated current Ir=80...100A, overload prot. II=1000A, short-circuit prot. without auxiliary release without auxiliary/alarm switch

Model		
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	
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		
adjustable current response value current of the current- dependent overload release initial value	80 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 • grounding protection No • for neutral conductors short-circuit and overload No proof • overload protection Yes operating short-circuit current breaking capacity (Ics) • at 240 V rated value 65 kA • at 415 V rated value 55 kA 14 kA • at 500 V rated value • at 690 V rated value 4 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 25 kA 25 kA • at 480 V according to NEMA rated value • at 500 V rated value 18 kA • at 600 V according to NEMA rated value 8 kA 8 kA • at 690 V rated value arrangement of electrical connectors for main current front side circuit type of connectable conductor cross-sections for main contacts 12 x 10 mm with flexible busbar 2.5 ... 95 mm² • finely stranded with core end processing 2.5 ... 50 mm² 2.5 ... 95 mm² stranded type of connectable conductor cross-sections for auxiliary contacts 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 106.5 mm depth fastening method fixed mounting ambient temperature during operation 0°C minimum 70 °C • maximum ambient temperature during storage • minimum -40 °C • maximum 80 °C **General Product Approval KC**



Confirmation

Miscellaneous

TSE



EMC Declaration of Conformity Test Certificates Marine / Shipping







Special Test Certific-<u>ate</u>





Marine / Shipping other











other	Environment
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<u>Miscellaneous</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.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=3VL1710-1DD33-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VL1710-1DD33-0AA0

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

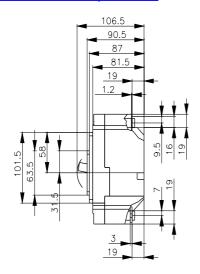
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1710-1DD33-0AA0

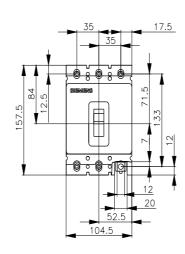
CAx-Online-Generator

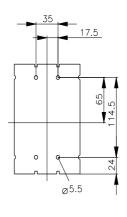
http://www.siemens.com/cax

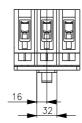
Tender specifications

http://www.siemens.com/specifications









last modified: 6/17/2021 **G**