SIEMENS

Data sheet

3VL1710-1DD36-0AA0

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. with screw terminals without auxiliary release without auxiliary/alarm switch

	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	Ν
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	
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 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 (Ics)	
• 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 (Icu)	
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 mm ²
 finely stranded with core end processing 	2.5 50 mm²
• stranded	2.5 95 mm ²
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	
boight	
height	157.5 mm
width	157.5 mm 104.5 mm
width	104.5 mm
width depth	104.5 mm 106.5 mm
width depth fastening method	104.5 mm 106.5 mm
width depth fastening method Environmental conditions	104.5 mm 106.5 mm
width depth fastening method Environmental conditions ambient temperature during operation	104.5 mm 106.5 mm fixed mounting
width depth fastening method Environmental conditions ambient temperature during operation • minimum	104.5 mm 106.5 mm fixed mounting 0 °C
width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum	104.5 mm 106.5 mm fixed mounting 0 °C
width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage	104.5 mm 106.5 mm fixed mounting 0 °C 70 °C
width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum	104.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C
width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	104.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C
width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum Approvals Certificates	104.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C 80 °C Test Certificates
width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum Approvals Certificates General Product Approval	104.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C 80 °C Test Certificates other Microllements

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL1710-1DD36-0AA0 https://m

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL1710-1DD36-0Av

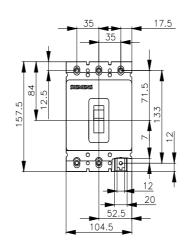
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1710-1DD36-0AA0

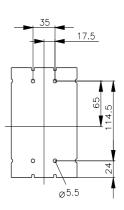
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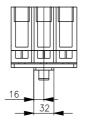
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