SIEMENS

Data sheet

3VL1710-1EH46-0AA0

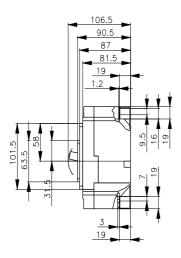
circuit breaker VL160X N standard breaking capacity Icu=55kA, 415V AC 4-pole, line protection Trip Unit TM, LI In=100A, rated current Ir=100A, overload protection II=1000A, short-circuit prot. N unprotected with screw terminals without auxiliary release without auxiliary/alarm switch

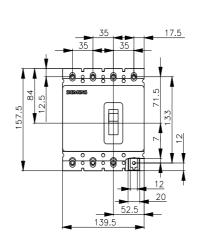
	release without auxiliary/alarm switch
Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	TM
General technical data	
number of poles	4
size of the circuit-breaker	3VL1
mechanical service life (operating cycles) typical	20 000
electrical endurance (operating cycles) 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	100 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
Product extension optional motor drive Product function	100
product function	

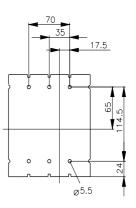
 of thermal overload trip unit 	fixed
 grounding protection 	No
 for neutral conductors short-circuit and overload proof 	No
overload protection	Yes
Short circuit	
operating short-circuit current breaking capacity (lcs)	
• at 240 V rated value	65 kA
 at 415 V rated value 	55 kA
 at 500 V rated value 	14 kA
 at 690 V rated value 	4 kA
maximum short-circuit current breaking capacity (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 mm ²
• 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
type of electrical connection for main current circuit Mechanical Design	screw-type terminals
••	screw-type terminals 157.5 mm
Mechanical Design	
Mechanical Design height	157.5 mm
Mechanical Design height width	157.5 mm 139.5 mm
Mechanical Design height width depth	157.5 mm 139.5 mm 106.5 mm
Mechanical Design height width depth fastening method	157.5 mm 139.5 mm 106.5 mm
Mechanical Design height width depth fastening method Environmental conditions	157.5 mm 139.5 mm 106.5 mm
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation	157.5 mm 139.5 mm 106.5 mm fixed mounting
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum	157.5 mm 139.5 mm 106.5 mm fixed mounting
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum	157.5 mm 139.5 mm 106.5 mm fixed mounting
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage	157.5 mm 139.5 mm 106.5 mm fixed mounting 0 °C 70 °C
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum	157.5 mm 139.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum • maximum	157.5 mm 139.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum Approvals Certificates	157.5 mm 139.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C 80 °C Test Certificates other
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum General Product Approval	157.5 mm 139.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C 80 °C Test Certificates other
Mechanical Design height width depth fastening method Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum ambient temperature during storage • minimum • maximum General Product Approval Confirmatic EG-Konf.	157.5 mm 139.5 mm 106.5 mm fixed mounting 0 °C 70 °C -40 °C 80 °C Test Certificates other ate confirmation ate

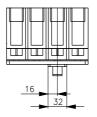
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Tender specifications http://www.siemens.com/specifications









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