Data sheet

3VL1716-1DA36-0AA0

circuit breaker VL160X N standard breaking capacity lcu=55kA, 415V AC 3-pole, line protection Trip Unit TM, LI In=160A, rated current Ir=160A, overload protection II=1500A, short-circuit prot. with screw terminals 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	160 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 	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 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 mm ²
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	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	other Environment







Confirmation

Environmental Confirmations

Further information

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=3VL1716-1DA36-0AA0

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

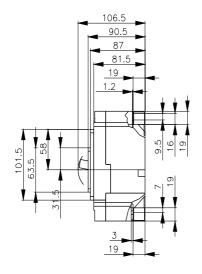
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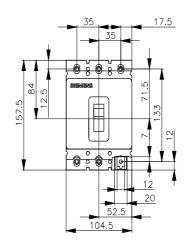
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

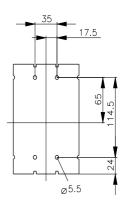
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1716-1DA36-0AA0

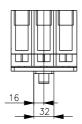
CAx-Online-Generator

http://www.siemens.com/cax









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