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CIRCUIT-BREAKER VL 160N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 4 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=80A, RATED CURRENT IR=63-80A, OVERLOAD II=400-800A, SHORT CIRCUIT N NOT PROTECTED WITHOUT AUXILIARY RELEASE AUXILIARY/ALARM SWITCH KIT 2HS(1NO+1NC)+1AS(1NO)

General technical data:

Number of poles		4
Design of the overcurrent release		TM
Acceptability for application		system protection
Electrical operating cycles as operating time / typical		10,000
Mechanical operating cycles as operating time / typical		20,000
Active power loss / maximum	W	48
Product component		
• auxiliary switch		Yes
• Voltage trigger		No
• undervoltage release mechanism		No
• undervoltage release with leading contact		No
Product function		
• of the thermal overload release		adjustable
• ground-fault protection		No
• for zero conductors / short-circuit and overload protection		No
• overload protection		Yes
Operating cycles / maximum	1/s	120
Protection class IP		IP20

Protective function of the overcurrent release		LI
Impulse voltage resistance / rated value	kV	8
Ambient temperature		
• during operating	°C	0 ... 70
• during storage	°C	-40 ... +80

Main circuit:

Insulation voltage / for AC / rated value	V	800
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		Q
• according to DIN EN 61346-2		Q
Operating voltage / for main circuit		
• at 50 Hz / with AC		
• maximum	V	690
• at 60 Hz / with AC		
• maximum	V	690
Operating voltage / for main current circuit / for DC		
• maximum	V	500
Operating current		
• at 40 °C / rated value	A	80
• at 50 °C / rated value	A	80
• at 60 °C / rated value	A	74.4
• at 70 °C / rated value	A	68.8
Continuous current / rated value	A	80
Derating temperature / for the rated value of the continuous current	°C	50

Auxiliary circuit:

Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		2

Short-circuit:

Adjustable response current		
• of the current-dependent overload release	A	64 ... 80
• of the non-delayed short-circuit release	A	400 ... 800
Breaking capacity limit short-circuit current (I_{cu}) / at 415 V / rated value	kA	55

Installation/mounting/dimensions:

Type of mounting		fixed mounting
Height	mm	174.5
Width	mm	139.5
Depth	mm	106.5

Connections:

Arrangement of electrical connectors / for main current circuit		front side
Design of the electrical connection / for main current circuit		box terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2.5 ... 95 mm ²
• stranded		2.5 ... 95 mm ²
• for auxiliary contacts		
• solid		0.75 ... 1.5 mm ²
• finely stranded / with conductor end processing		0,75 ... 1.0 mm ²

Certificates/approvals:

General Product Approval	Declaration of Conformity	Test Certificates
 CCC	 EG-Konf.	Special Test Certificate

[KTL](#)

[TSE](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



PRS



RINA

other

[Confirmation](#)

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Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

<http://www.siemens.com/lowvoltage/mall>

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

<http://support.automation.siemens.com/WW/view/en/3VL2708-1EJ43-0AD1/all>

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

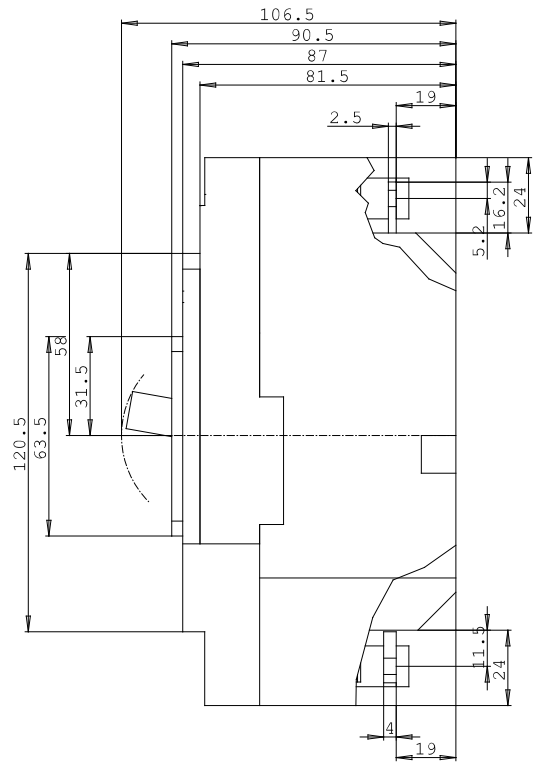
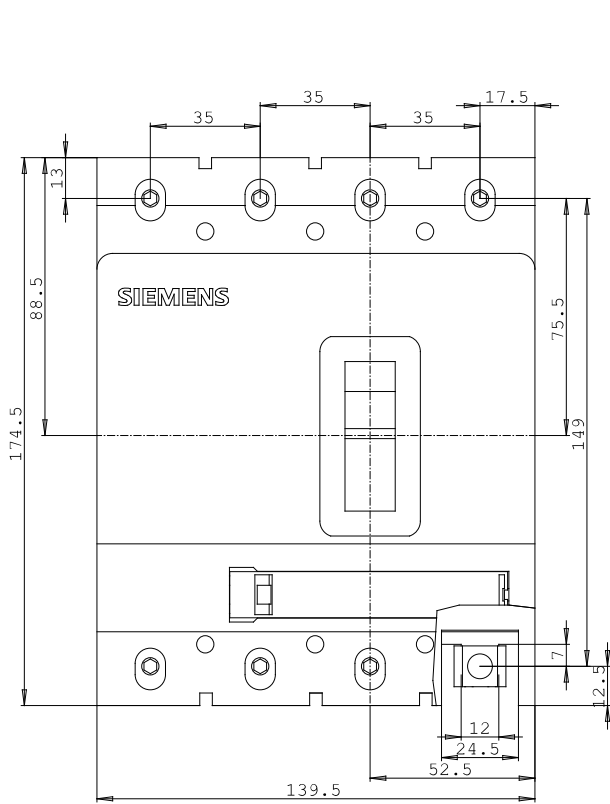
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2708-1EJ43-0AD1

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

[Datenorm GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)



last change:

Aug 12, 2013