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CIRCUIT-BREAKER VL 800N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 4 POLE, NON-AUTOMATIC OVERCURRENT RELEASE MAGNETIC IN=800A, RATED CURRENT II=6500A, SHORT CIRCUIT

General technical data:

Number of poles		4
Design of the overcurrent release		M
Acceptability for application		non-automatic circuit-breakers
Electrical operating cycles as operating time / typical		3,000
Mechanical operating cycles as operating time / typical		10,000
Active power loss / maximum	W	250
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		Without
• ground-fault protection		No
• for zero conductors / short-circuit and overload protection		No
• overload protection		No
Operating cycles / maximum	1/s	60
Protection class IP		IP20

Protective function of the overcurrent release		I
Impulse voltage resistance / rated value	kV	8
Ambient temperature		
• during operating		
• minimum	°C	-25 ...
• maximum	°C	70
• during storage		
• minimum	°C	-40
• maximum	°C	50

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 current circuit		
• at 50 Hz / for AC		
• maximum	V	690
• at 60 Hz / for AC		
• maximum	V	690
• for DC		
• maximum	V	500
Operating current		
• at 40 °C / rated value	A	800
• at 50 °C / rated value	A	800
• at 60 °C / rated value	A	744
• at 70 °C / rated value	A	688
Continuous current / rated value	A	800
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		
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<ul style="list-style-type: none"> • of the current-dependent overload release <ul style="list-style-type: none"> • initial value • of the non-delayed short-circuit release <ul style="list-style-type: none"> • initial value • final value 		...
	A	6,500 ...
	A	6,500
Breaking capacity limit short-circuit current (I_{cu}) / at 415 V / rated value	kA	55

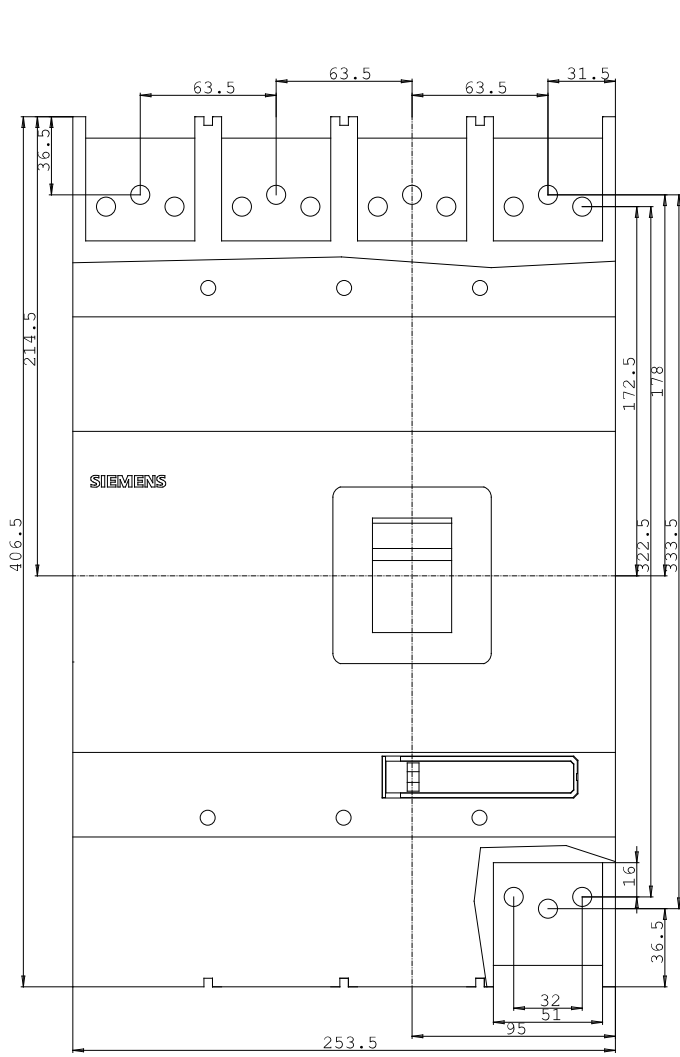
Installation/mounting/dimensions:		
Type of mounting		fixed mounting
Height	mm	406.5
Width	mm	253.5
Depth	mm	176.5

Connections:		
Arrangement of electrical connectors / for main current circuit		front side
Design of the electrical connection / for main current circuit		screw-type terminals
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> • for auxiliary contacts • solid • finely stranded / with conductor end processing 		0,75 ... 1.5 mm ²
		0.75 ... 1.0 mm ²

Certificates/approvals:

Further information:

- Information- and Downloadcenter (Catalogs, Brochures,...)**
<http://www.siemens.com/lowvoltage/catalogs>
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- 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/3VL6780-1EE46-0AE1/all>
-
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL6780-1EE46-0AE1
-
- CAX-Online-Generator**
<http://www.siemens.com/cax>



last change:

Feb 8, 2013