SIEMENS

Data sheet 3VL2716-1AA43-0AA0

CIRCUIT-BREAKER VL 160N WITHOUT ELECTRONIC TRIP UNIT STANDARD BREAKING CAPACITY ICU= 55KA / 415 V AC, 4-POLE IN= < 160 A, RATED CURRENT WITHOUT AUXILIARY RELEASE WITH BOX TERMINALS FOR CONTACT UNIT AND ELECTRONIC TRIP UNIT

Model		
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		4
Size of the circuit-breaker		3VL2
Electrical endurance (switching cycles) / typical		10 000
Usage category		A
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage Ue / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800
Surge voltage resistance / rated value	kV	8

Protection class		
Protection class IP		IP20

Electricity		
Continuous current / rated value	A	160
Derating temperature / for the rated value of the continuous current	°C	50
• acc. to UL 489	°C	40

Main circuit		
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / maximum	V	690
Operating current		
• at 40 °C / rated value	A	160
• at 50 °C / rated value	A	160
• at 55 °C / rated value	A	148.8
• at 60 °C / rated value	A	148.8
• at 65 °C / rated value	A	137.6
• at 70 °C / rated value	A	137.6

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

Product details		
Product component		
• Trip indicator		No
• Auxiliary switch		No
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product expansion / optional / motor drive		Yes

Product function		
Product function		
• of the thermal overload release		without
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No

• Overload protection		No

Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / rated value	kA	65
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	20
• at 690 V / rated value	kA	6
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / rated value	kA	65
• at 415 V / rated value	kA	55
• at 440 V / rated value	kA	25
• at 480 V / acc. to NEMA / rated value	kA	25
• at 500 V / rated value	kA	25
• at 600 V / acc. to NEMA / rated value	kA	12
• at 690 V / rated value	kA	12

Connections		
Arrangement of electrical connectors / for main current circuit		front side
Type of electrical connection / for main current circuit		box terminals

Mechanical Design		
Height	mm	174.5
Width	mm	139.5
Depth	mm	106.5
Mounting type		fixed mounting

Environmental conditions		
Ambient temperature		
• during operation / minimum	°C	-25
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

Certificates		
Certificate of suitability		IEC, standard switching capacity (N)
Equipment marking		
• acc. to DIN EN 61346-2		Q

General Product Approval				EMC	Declaration of Conformity
CCC	sonstig	EAC	TSE	C-TICK	EG-Konf.

Test Certificates	Shipping Approval				
spezielle Prüfbescheinigungen	ABS	BUREAU VERITAS	DNV	GL	PRS

Shipping Approval		other		
RINA	RMRS	Bestätigungen	Umweltbestätigung	sonstig

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

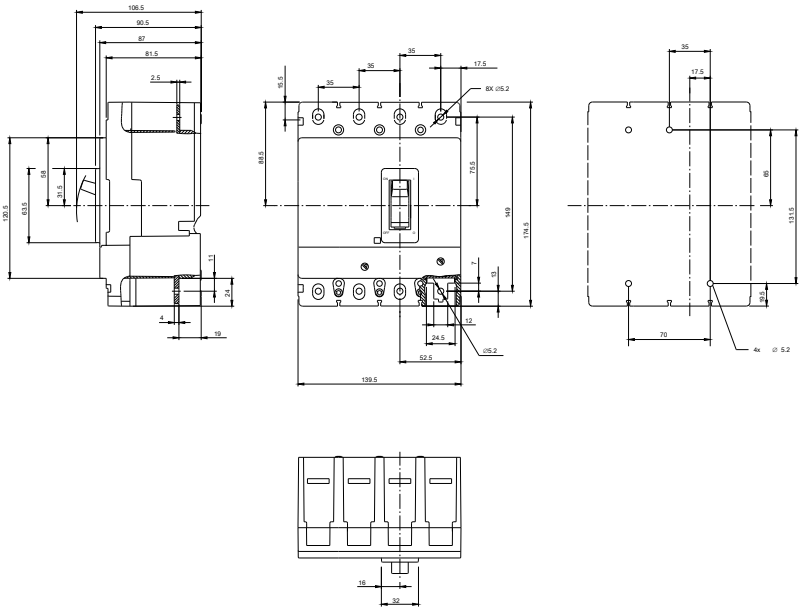
Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL27161AA430AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3VL27161AA430AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL27161AA430AA0

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv



last modified: 02.02.2016