



CIRCUIT-BREAKER VL 400N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=400A, RATED CURRENT IR=320-400A, OVERLOAD II=2000-4000A, SHORT CIRCUIT

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		TM
General technical data		
Number of poles		3
Tripping characteristics / Upper tolerance band		AK_VL250_TM_I_u.txt
Tripping characteristics / Lower tolerance band		AK_VL160x_TM_I_o.txt
Size of the circuit-breaker		3VL4
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
• with AC / Rated value	V	800
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LI

Electricity		
Continuous current / Rated value	A	400
Derating temperature / for the rated value of the continuous current	°C	50
Adjustable response value current		
• of the current-dependent overload release / Full-scale value	A	400
• of the instantaneous short-circuit release / initial value	A	2 000
• of the instantaneous short-circuit release / Full-scale value	A	4 000
Main circuit		
Operating frequency		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
Operating voltage		
• for main current circuit / with AC / at 50 Hz / maximum	V	690
• for main current circuit / with AC / at 60 Hz / maximum	V	690
• for main current circuit / for DC / maximum	V	500
Operating current		
• at 40 °C / Rated value	A	400
• at 50 °C / Rated value	A	400
• at 55 °C / Rated value	A	372
• at 60 °C / Rated value	A	372
• at 65 °C / Rated value	A	344
• at 70 °C / Rated value	A	344
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 response value current / of the current-dependent overload release / initial value	A	320
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	adjustable
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• overload protection	Yes

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 8
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 35
• at 480 V / acc. to NEMA / Rated value	kA 35
• at 500 V / Rated value	kA 25
• at 600 V / acc. to NEMA / Rated value	kA 20
• at 690 V / Rated value	kA 15

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of connectable conductor cross-section	
• for main contacts	
— with flexible busbar	25 x 10
— solid	50 ... 300 mm ²
— finely stranded / with core end processing	50 ... 240 mm ²
— stranded	50 ... 300 mm ²
• for auxiliary contacts	
— solid	0.75 ... 1.5 mm ²
— finely stranded / with core end processing	0,75 ... 1.0 mm ²
Type of electrical connection / for main current circuit	screw-type terminals

Mechanical Design

Height	mm 279.5
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Width	mm	139
Depth	mm	163.5
Mounting type		fixed mounting

Environmental conditions

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

°C	0
°C	70
°C	-40
°C	80

Certificates

Certificate of suitability

IEC, standard switching capacity (N)

Equipment marking

- acc. to DIN EN 61346-2

Q

General Product Approval

EMC



CCC



CSA

[other](#)



[KTL](#)



C-TICK

Declaration of Conformity

Test Certificates

Shipping Approval



EG-Konf.

[Special Test Certificate](#)



DNV



GL



PRS

Shipping Approval

other



RINA



RMRS

[Environmental Confirmations](#)

[Confirmation](#)

[other](#)

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/3VL47401DC360AA0-Z U01>

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

<http://support.automation.siemens.com/WW/view/en/3VL47401DC360AA0-Z U01/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL47401DC360AA0-Z U01

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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