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Data sheet 3VL4740-1AA36-0AA0

CIRCUIT-BREAKER VL 400N WITHOUT ELECTRONIC TRIP UNIT STANDARD BREAKING CAPACITY ICU= 55KA / 415 V AC, 3-POLE IN= < 400 A, RATED CURRENT WITHOUT AUXILIARY RELEASE WITH SCREW CONNECTIONS FOR CONTACT UNIT AND OVERVOLTAGE RELEASE

Model	
Type of the driving mechanism / motor drive	No

General technical data	
Number of poles	3
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	120 1/s

Voltage	
Rated operational voltage Ue / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V
Surge voltage resistance / rated value	8 kV

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Protection class	
Protection class IP	IP20

Electricity	
Continuous current / rated value	400 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C

Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
Operating current	
• at 40 °C / rated value	400 A
• at 50 °C / rated value	400 A
• at 55 °C / rated value	372 A
• at 60 °C / rated value	372 A
• at 65 °C / rated value	344 A
• at 70 °C / rated value	344 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	
• of thermal overload trip unit	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)	

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• at 240 V / rated value	65 kA
• at 415 V / rated value	55 kA
• at 500 V / rated value	20 kA
• at 690 V / rated value	8 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	35 kA
• at 480 V / acc. to NEMA / rated value	35 kA
• at 500 V / rated value	25 kA
• at 600 V / acc. to NEMA / rated value	20 kA
• at 690 V / rated value	15 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	screw-type terminals

Mechanical Design

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

Environmental conditions

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

Certificates

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

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General Product Approval				EMC	Declaration of Conformity
CCC	CSA	sonstig	EAC	C-Tick	EG-Konf.

Test Certificates	Shipping Approval				other
spezielle Prüfbescheinigungen	BUREAU VERITAS	PRS	RINA	RMRS	Bestätigungen

other	
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/3VL4740-1AA36-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3VL4740-1AA36-0AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1AA36-0AA0

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

Tender specifications
http://www.siemens.com/specifications

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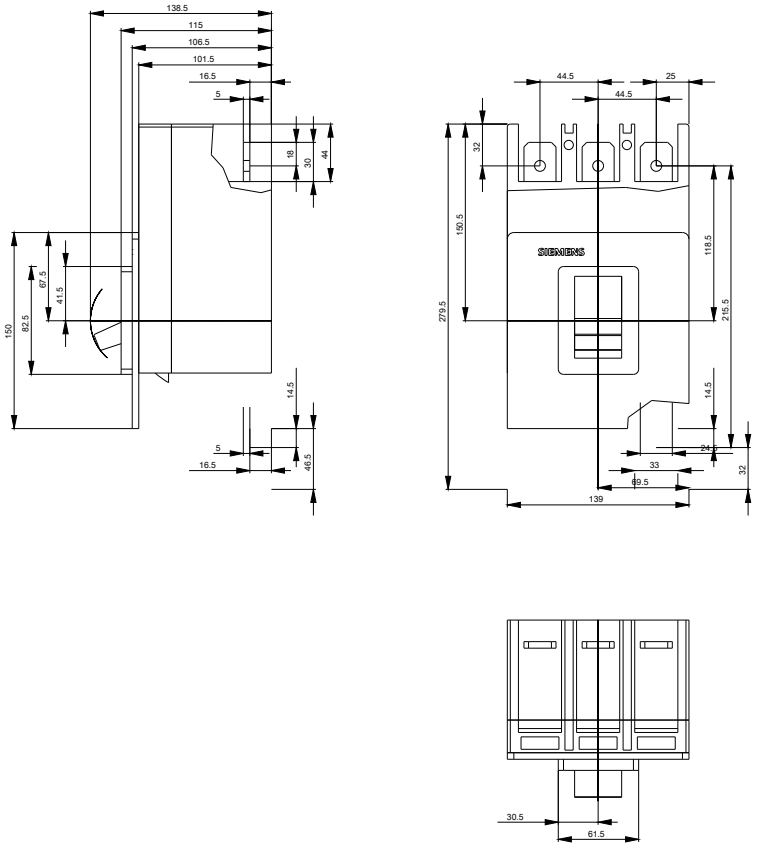

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