

circuit breaker VL400N standard breaking capacity $I_{cu}=55kA$, 415V AC 3-pole, line protection trip unit LCD ETU42, LSIG 3 phases/3 lines $I_n=400A$, rated current $I_R=160...400A$, overload protection, $ISD=1.5$ to $10 \times I_R$, $I_l=11 \times I_n$ short-circuit protection without auxiliary release Auxiliary switch mounting kit 2 AUX (1 NO + 1 NC)

Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	LCD ETU42
General technical data	
number of poles	3
size of the circuit-breaker	3VL4
mechanical service life (switching cycles) / typical	20 000
electrical endurance (switching cycles) / typical	10 000
utilization category	A
performance class for circuit breaker	N
reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750	Q
operating frequency / maximum	120 1/s
Voltage	
Rated operational voltage U_e / max.	690 V
<ul style="list-style-type: none"> insulation voltage / rated value insulation voltage (U_i) / at AC / rated value 	800 V
surge voltage resistance / rated value	8 kV
operating voltage	
<ul style="list-style-type: none"> rated value / maximum for main current circuit / at AC / at 50 Hz / maximum for main current circuit / at AC / at 60 Hz / maximum for main current circuit / at DC / maximum 	690 V 690 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LSIG
Current	
operational current	
<ul style="list-style-type: none"> at 40 °C / rated value at 45 °C / rated value at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value 	400 A 400 A 400 A 380 A 380 A 320 A 320 A
continuous current / rated value	400 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable current response value current	
<ul style="list-style-type: none"> of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 	400 A 500 A 4 400 A
Main circuit	
operating frequency	
<ul style="list-style-type: none"> 1 / rated value 2 / rated value 	50 Hz 60 Hz

Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
Suitability	
suitability for use	system/generator protection
Adjustable parameters	
adjustable current response value current / of the short-time delayed short-circuit release / full-scale value	4 000 A
adjustable current response value current / of the current-dependent overload release / initial value	160 A
Product details	
product component	
<ul style="list-style-type: none"> • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact 	<ul style="list-style-type: none"> No Yes No No No
product extension / optional / motor drive	Yes
Product function	
product function	
<ul style="list-style-type: none"> • of thermal overload trip unit • grounding protection • for neutral conductors / short-circuit and overload proof • overload protection 	<ul style="list-style-type: none"> adjustable Yes No Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value 	<ul style="list-style-type: none"> 65 kA 55 kA 20 kA 8 kA
breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 440 V / rated value • at 480 V / according to NEMA / rated value • at 500 V / rated value • at 600 V / according to NEMA / rated value • at 690 V / rated value 	<ul style="list-style-type: none"> 65 kA 55 kA 35 kA 35 kA 25 kA 20 kA 15 kA
Connections	
arrangement of electrical connectors / for main current circuit	front side
type of connectable conductor cross-sections / for main contacts	
<ul style="list-style-type: none"> • with flexible busbar • solid • finely stranded / with core end processing • stranded 	<ul style="list-style-type: none"> 25 x 10 50 ... 300 mm² 50 ... 240 mm² 50 ... 300 mm²
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing 	<ul style="list-style-type: none"> 0.75 ... 1.5 mm² 0,75 ... 1.0 mm²
type of electrical connection / for main current circuit	screw-type terminals
Mechanical Design	
height	279.5 mm
width	139 mm
depth	163.5 mm
fastening method	fixed mounting
Environmental conditions	

ambient temperature / during operation	-25 °C		
<ul style="list-style-type: none"> • minimum • maximum 	70 °C		
ambient temperature / during storage	-40 °C		
<ul style="list-style-type: none"> • minimum • maximum 	80 °C		
General Product Approval		EMC	Declaration of Conformity



[Miscellaneous](#)

[Confirmation](#)



[UK Declaration of Conformity](#)

Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Miscellaneous](#)

other

[Environmental Conformations](#)

[Confirmation](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3VL4740-1UL36-0AB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4740-1UL36-0AB1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL4740-1UL36-0AB1

CAx-Online-Generator

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

Tender specifications

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



