

circuit breaker VL400N standard breaking capacity $I_{cu}=55kA$, 415V AC 4-pole, line protection trip unit TM, LI $I_n=400A$, rated current $I_R=320...400A$, overload protection, $I_t=2000...4000A$, short-circuit protection N unprotected Shunt release 110...127 V DC Auxiliary/alarm switch mounting kit 2 AUX (1 NO+1 NC)+1 AS (1 NO)

Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	TM
General technical data	
number of poles	4
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	LI
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 372 A 372 A 344 A 344 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 2 000 A 4 000 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	2
Suitability	
suitability for use	system protection
Adjustable parameters	
adjustable current response value current / of the current-dependent overload release / initial value	320 A
Product details	
product component	
<ul style="list-style-type: none"> • trip indicator 	Yes
<ul style="list-style-type: none"> • auxiliary switch 	Yes
<ul style="list-style-type: none"> • voltage trigger 	Yes
<ul style="list-style-type: none"> • undervoltage release 	No
<ul style="list-style-type: none"> • undervoltage release with leading contact 	No
product extension / optional / motor drive	Yes
Product function	
product function	
<ul style="list-style-type: none"> • of thermal overload trip unit 	adjustable
<ul style="list-style-type: none"> • grounding protection 	No
<ul style="list-style-type: none"> • for neutral conductors / short-circuit and overload proof 	No
<ul style="list-style-type: none"> • overload protection 	Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> • at 240 V / rated value 	65 kA
<ul style="list-style-type: none"> • at 415 V / rated value 	55 kA
<ul style="list-style-type: none"> • at 500 V / rated value 	20 kA
<ul style="list-style-type: none"> • at 690 V / rated value 	8 kA
breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> • at 240 V / rated value 	65 kA
<ul style="list-style-type: none"> • at 415 V / rated value 	55 kA
<ul style="list-style-type: none"> • at 440 V / rated value 	35 kA
<ul style="list-style-type: none"> • at 480 V / according to NEMA / rated value 	35 kA
<ul style="list-style-type: none"> • at 500 V / rated value 	25 kA
<ul style="list-style-type: none"> • at 600 V / according to NEMA / rated value 	20 kA
<ul style="list-style-type: none"> • at 690 V / rated value 	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 	25 x 10
<ul style="list-style-type: none"> • solid 	50 ... 300 mm ²
<ul style="list-style-type: none"> • finely stranded / with core end processing 	50 ... 240 mm ²
<ul style="list-style-type: none"> • stranded 	50 ... 300 mm ²
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid 	0.75 ... 1.5 mm ²
<ul style="list-style-type: none"> • 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	279.5 mm
width	183.5 mm
depth	163.5 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum 	0 °C

• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
General Product Approval	EMC

[Miscellaneous](#)

[Confirmation](#)



[KC](#)



C-Tick

Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

[UK Declaration of Conformity](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



LRS

Marine / Shipping	other
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PRS



RINA



RMRS



DNV-GL

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other

[Environmental Confirmations](#)

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?mlfb=3VL4740-1EJ46-8KD1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4740-1EJ46-8KD1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1EJ46-8KD1

CAx-Online-Generator

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

Tender specifications

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



