

circuit breaker VL400N standard breaking capacity I_{cu}=55kA, 415V AC 4-pole, line protection trip unit TM, LI I_n=400A, rated current IR=320...400A, overload protection, II=2000...4000A, short-circuit protection N unprotected 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	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 / 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 U _e / max.	690 V
insulation voltage	
• rated value	800 V
• at AC / rated value	800 V
surge voltage resistance / rated value	8 kV
operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
• for main current circuit / at DC / maximum	500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
• at 40 °C / rated value	400 A
• at 45 °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
continuous current / rated value	400 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable current response value current	
• of the current-dependent overload release / full-scale value	400 A
• of instantaneous short-circuit trip unit / initial value	2 000 A
• of instantaneous short-circuit trip unit / full-scale value	4 000 A
Main circuit	
operating frequency	

• 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 protection
Adjustable parameters	
adjustable current response value current / of the current-dependent overload release / initial value	320 A
Product details	
product component	
• trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact	No Yes No No No
product extension / optional / motor drive	Yes
Product function	
product function	
• of thermal overload trip unit • grounding protection • for neutral conductors / short-circuit and overload proof • overload protection	adjustable No No Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
• at 240 V / rated value • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	65 kA 55 kA 20 kA 8 kA
breaking capacity maximum short-circuit current (Icu)	
• at 240 V / rated value • at 415 V / rated value • at 440 V / rated value • at 480 V / acc. to NEMA / rated value • at 500 V / rated value • at 600 V / acc. to NEMA / rated value • at 690 V / rated value	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	
• with flexible busbar • solid • finely stranded / with core end processing • stranded	25 x 10 50 ... 300 mm ² 50 ... 240 mm ² 50 ... 300 mm ²
type of connectable conductor cross-sections / for auxiliary contacts	
• solid • finely stranded / with core end processing	0.75 ... 1.5 mm ² 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 • minimum • maximum	0 °C 70 °C		
ambient temperature / during storage • minimum • maximum	-40 °C 80 °C		
Certificates			
certificate of suitability	IEC, standard switching capacity (N)		
reference code • acc. to DIN EN 61346-2	Q		
General Product Approval		EMC	Declaration of Conformity



[Miscellaneous](#)

[KC](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)



Marine / Shipping

other



[Miscellaneous](#)

[Confirmation](#)

[Manufacturer Declaration](#)

[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=3VL4740-1EJ46-0AB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4740-1EJ46-0AB1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1EJ46-0AB1

Tender specifications

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

