

circuit-breaker VL 400N standard breaking capacity r.u.s.-c.br.c.= 55kA, 415 V AC 3-pole, motor protection electronic trip unit ETU30M, LI In=315A, rated current tc= 10A ... 30, time lag class il= 6 ... 11 x In, short-circuit protection

Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU30M
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
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 Ue / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V
Surge voltage resistance / rated value	8 kV
Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LI
Electricity	
Operating current / at 45 °C / rated value	315 A
Continuous current / rated value	315 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	315 A
• of instantaneous short-circuit trip unit / initial value	1 890 A
• of instantaneous short-circuit trip unit / Full-scale value	3 465 A

Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating power / at AC-3	
• at 230 V / rated value	57.9 kW
• at 400 V / rated value	174.6 kW
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
Operating current	
• at 40 °C / rated value	315 A
• at 50 °C / rated value	315 A
• at 55 °C / rated value	299.3 A
• at 60 °C / rated value	299.3 A
• at 65 °C / rated value	252 A
• at 70 °C / rated value	252 A
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	Motor Protection
Adjustable parameters	
Adjustable pick-up value current / of the current-dependent overload release / initial value	126 A
Product details	
Product component	
• Trip indicator	No
• Auxiliary switch	Yes
• Voltage trigger	No
• undervoltage release	Yes
• undervoltage release with leading contact	No
Product extension / optional / motor drive	Yes
Product function	
Product function	

- of thermal overload trip unit
- Ground fault protection
- for neutral conductors / Short-circuit and overload proof
- Overload protection

adjustable
No
No
Yes

Short circuit

Operational short-circuit current breaking capacity (Ics)

- 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 connectable conductor cross-sections

- for main contacts / with flexible busbar 25 x 10
- for main contacts / solid 50 ... 300 mm²
- for main contacts / finely stranded / with core end processing 50 ... 240 mm²
- for main contacts / stranded 50 ... 300 mm²
- for auxiliary contacts / solid 0.75 ... 1.5 mm²
- for auxiliary contacts / finely stranded / with core end processing 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
Mounting type	fixed mounting

Environmental conditions

Ambient temperature

- during operation / minimum -25 °C

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

70 °C
-40 °C
80 °C

Certificates

Certificate of suitability	IEC, standard switching capacity (N)			
Reference code	Q			
• acc. to DIN EN 61346-2				
General Product Approval	EMC	Declaration of Conformity	Test Certificates	Shipping Approval



CCC

[Miscellaneous](#)



C-Tick



EG-Konf.

[Special Test Certificate](#)



RINA

Shipping Approval	other
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RMRS

[Environmental Conformations](#)

[Miscellaneous](#)

[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?mlfb=3VL4731-1SS36-2HB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4731-1SS36-2HB1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4731-1SS36-2HB1

CAX-Online-Generator

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

Tender specifications

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