

circuit breaker VL400H high breaking capacity $I_{cu}=70\text{kA}$, 415V AC 3-pole, motor/generator prot. Electronic Trip Unit ETU10M, $I_n=315\text{A}$, rated current $I_R=125\dots315\text{A}$, overload protection, $I_l=1.25$ to $11I_n$, short-circuit protection without auxiliary release without auxiliary/alarm switch

Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU10M
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 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
Protective function of the overcurrent release	LI

Current

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	394 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 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	0
Number of NO contacts / for auxiliary contacts	0

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	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product function	
Product function	
• of thermal overload trip unit	adjustable
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	75 kA
• at 415 V / rated value	70 kA
• at 500 V / rated value	30 kA
• at 690 V / rated value	8 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	70 kA
• at 440 V / rated value	50 kA
• at 480 V / acc. to NEMA / rated value	50 kA
• at 500 V / rated value	40 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	
<ul style="list-style-type: none"> • minimum • maximum 	-25 °C 70 °C
Ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	-40 °C 80 °C

Certificates

Certificate of suitability	IEC, high switching capacity (H)
Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 C-Tick	 EG-Konf.	 RINA	

[Miscellaneous](#)

[Special Test Certificate](#)

Shipping Approval	other
-------------------	-------



RMRS

[Environmental Conformations](#)

[Confirmation](#)

[Miscellaneous](#)

[Manufacturer Declaration](#)

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=3VL4731-2SP36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4731-2SP36-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4731-2SP36-0AA0

CAX-Online-Generator

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

Tender specifications

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