

circuit breaker VL400N standard breaking capacity  $I_{cu}=55kA$ , 415V AC 3-pole, motor protection Electronic Trip Unit ETU30M, LI IR=125...315A, overload prot., TC=10A...30, II=6/8/11 xIN, short-circuit protection without auxiliary release without auxiliary/alarm switch

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
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"> <li>insulation voltage / rated value</li> <li>insulation voltage (<math>U_i</math>) / at AC / rated value</li> </ul>	800 V
surge voltage resistance / rated value	8 kV
operating voltage <ul style="list-style-type: none"> <li>rated value / maximum</li> <li>for main current circuit / at AC / at 50 Hz / maximum</li> <li>for main current circuit / at AC / at 60 Hz / maximum</li> <li>for main current circuit / at DC / maximum</li> </ul>	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"> <li>at 40 °C / rated value</li> <li>at 45 °C / rated value</li> <li>at 50 °C / rated value</li> <li>at 55 °C / rated value</li> <li>at 60 °C / rated value</li> <li>at 65 °C / rated value</li> <li>at 70 °C / rated value</li> </ul>	315 A
	315 A
	315 A
	299.3 A
	299.3 A
	252 A
	252 A
continuous current / rated value	315 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable current response value current <ul style="list-style-type: none"> <li>of the current-dependent overload release / full-scale value</li> <li>of instantaneous short-circuit trip unit / minimum</li> <li>of instantaneous short-circuit trip unit / maximum</li> </ul>	315 A
	1 890 A
	3 465 A
Main circuit	
operating frequency <ul style="list-style-type: none"> <li>1 / rated value</li> <li>2 / rated value</li> </ul>	50 Hz
	60 Hz
operating power / at AC-3	

<ul style="list-style-type: none"> <li>• at 230 V / rated value</li> </ul>	57.9 kW
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	174.6 kW
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
<b>Suitability</b>	
suitability for use	Motor Protection
<b>Adjustable parameters</b>	
adjustable current response value current / of the current-dependent overload release / initial value	126 A
<b>Product details</b>	
product component	
<ul style="list-style-type: none"> <li>• trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>• auxiliary switch</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>	No
product extension / optional / motor drive	Yes
<b>Product function</b>	
product function	
<ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> </ul>	adjustable
<ul style="list-style-type: none"> <li>• grounding protection</li> </ul>	No
<ul style="list-style-type: none"> <li>• for neutral conductors / short-circuit and overload proof</li> </ul>	No
<ul style="list-style-type: none"> <li>• overload protection</li> </ul>	Yes
<b>Short circuit</b>	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>• at 415 V / rated value</li> </ul>	55 kA
<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul>	8 kA
breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>• at 415 V / rated value</li> </ul>	55 kA
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	35 kA
<ul style="list-style-type: none"> <li>• at 480 V / according to NEMA / rated value</li> </ul>	35 kA
<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul>	25 kA
<ul style="list-style-type: none"> <li>• at 600 V / according to NEMA / rated value</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul>	15 kA
<b>Connections</b>	
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"> <li>• with flexible busbar</li> </ul>	25 x 10
<ul style="list-style-type: none"> <li>• solid</li> </ul>	50 ... 300 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded / with core end processing</li> </ul>	50 ... 240 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• stranded</li> </ul>	50 ... 300 mm <sup>2</sup>
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	0.75 ... 1.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded / with core end processing</li> </ul>	0,75 ... 1.0 mm <sup>2</sup>
type of electrical connection / for main current circuit	screw-type terminals
<b>Mechanical Design</b>	
height	279.5 mm
width	139 mm
depth	163.5 mm
fastening method	fixed mounting
<b>Environmental conditions</b>	

ambient temperature / during operation	-25 °C
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	70 °C
ambient temperature / during storage	-40 °C
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	80 °C

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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[Miscellaneous](#)



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



[Miscellaneous](#)

<b>other</b>
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### 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=3VL4731-1SS36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4731-1SS36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL4731-1SS36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4731-1SS36-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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



