

circuit breaker VL160L very high breaking capacity Icu=100kA, 415V AC 3-pole, motor/generator prot. Electronic Trip Unit LCD ETU40M, LI In=160A, rated current IR=64...160A, overload protection, II=1.25 to 11xIN, short-circuit protection with screw terminals without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism / motor drive	No
design of the overcurrent release	LCD ETU40M
General technical data	
number of poles	3
size of the circuit-breaker	3VL2
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 Ue / max.	690 V
insulation voltage / rated value	800 V
insulation voltage (Ui) / 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	160 A
at 45 °C / rated value	160 A
at 50 °C / rated value	160 A
at 55 °C / rated value	152 A
at 60 °C / rated value	152 A
at 65 °C / rated value	128 A
at 70 °C / rated value	128 A
continuous current / rated value	160 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	160 A
of instantaneous short-circuit trip unit / minimum	200 A
of instantaneous short-circuit trip unit / maximum	1 760 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 • at 400 V / rated value	29.4 kW 88.7 kW
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 current response value current / of the current-dependent overload release / initial value	64 A
Product details	
product component	
• trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact	No No 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	150 kA 75 kA 38 kA 6 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	200 kA 100 kA 75 kA 75 kA 50 kA 12 kA 12 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	12 x 10 mm 2.5 ... 95 mm ² 2.5 ... 50 mm ² 2.5 ... 95 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	174.5 mm
width	104.5 mm
depth	106.5 mm
fastening method	fixed mounting
Environmental conditions	

ambient temperature / during operation			
• minimum	-25 °C		
• maximum	70 °C		
ambient temperature / during storage			
• minimum	-40 °C		
• maximum	80 °C		
General Product Approval		EMC	Declaration of Conformity

[Miscellaneous](#)



[TSE](#)



Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Environmental Confirmations](#)

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other

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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=3VL2716-3UP36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2716-3UP36-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-3UP36-0AA0

CAX-Online-Generator

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

Tender specifications

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



