



CIRCUIT-BREAKER VL 160H HIGH BREAKING CAPACITY R.U.S.-
C.B.R.C.= 70 KA, 415 V AC 3-POLE, MOTOR PROTECTION
ELECTRONIC TRIP UNIT ETU30M, LI IN=160A, RATED CURRENT
TC= 10A ... 30, TIME LAG CLASS II= 6 ... 11 X IN, SHORT-CIRCUIT
PROTECTION WITHOUT AUXILIARY RELEASE

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	3VL2
Electrical endurance (switching cycles) / typical	10 000
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	20 000
Equipment marking / 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
Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LI
Dissipation	
Power loss [W]	
• maximum	40 W
Electricity	
Operating current / at 45 °C / rated value	160 A
Continuous current / rated value	160 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	160 A
• of instantaneous short-circuit trip unit / initial value	960 A
• of instantaneous short-circuit trip unit / Full-scale value	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	29.4 kW
• at 400 V / rated value	88.7 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	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
Suitability	

Suitability for use	Motor Protection
Adjustable parameters	
Adjustable pick-up 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 Yes No No 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 • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	75 kA 70 kA 30 kA 6 kA
Maximum short-circuit current breaking capacity (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	100 kA 70 kA 50 kA 50 kA 40 kA 12 kA 12 kA
Connections	
Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	box terminals
Mechanical Design	
Height	174.5 mm

Width	104.5 mm
Depth	106.5 mm
Mounting type	fixed mounting

Environmental conditions

Ambient temperature

- during operation / minimum -25 °C
- during operation / maximum 70 °C
- during storage / minimum -40 °C
- during storage / maximum 80 °C

Certificates

Certificate of suitability IEC, high switching capacity (H)

Equipment marking

- acc. to DIN EN 61346-2 Q

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

[Miscellaneous](#)

[TSE](#)

[Special Test Certificate](#)

Shipping Approval	other
 RINA	 RMRS

[Environmental Confirmations](#)

[Confirmation](#)

[Miscellaneous](#)

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=3VL2716-2SS33-0AB1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL2716-2SS33-0AB1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-2SS33-0AB1

CAX-Online-Generator

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

Tender specifications

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