



CIRCUIT-BREAKER VL 160N STANDARD BREAKING CAPACITY
 ICU=55KA / 415 V AC 3 POLE, MOTOR/ GENERATOR
 PROTECTION ELECTRONIC TRIP UNIT ETU10M, LI IN=160A,
 RATED CURRENT IR=64-160A, OVERLOAD II=1,25TO11XIN,
 SHORT CIRCUIT WITH SCREW CONNECTION WITHOUT
 AUXILIARY RELEASE

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	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 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	
Continuous current / rated value	160 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	160 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	200 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	1 760 A
Main circuit	
Operating frequency	
<ul style="list-style-type: none"> • 1 / rated value 	50 Hz
<ul style="list-style-type: none"> • 2 / rated value 	60 Hz
Operating power / at AC-3	
<ul style="list-style-type: none"> • at 230 V / rated value 	29.4 kW
<ul style="list-style-type: none"> • at 400 V / rated value 	88.7 kW
Operating voltage	
<ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum 	690 V
<ul style="list-style-type: none"> • for main current circuit / at DC / maximum 	500 V
Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value 	160 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	160 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	152 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	152 A
<ul style="list-style-type: none"> • at 65 °C / rated value 	128 A
<ul style="list-style-type: none"> • 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	No
• Auxiliary switch	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product extension / optional / motor drive	Yes

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	65 kA
• at 415 V / rated value	55 kA
• at 500 V / rated value	20 kA
• at 690 V / rated value	6 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	25 kA
• at 480 V / acc. to NEMA / rated value	25 kA
• at 500 V / rated value	25 kA
• at 600 V / acc. to NEMA / rated value	12 kA
• at 690 V / rated value	12 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	174.5 mm
Width	104.5 mm
Depth	106.5 mm
Mounting type	fixed mounting

Environmental conditions

Ambient temperature	
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- 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, standard switching capacity (N)

Equipment marking

- acc. to DIN EN 61346-2

Q

General Product Approval

EMC

Declaration of Conformity

Test Certificates



CCC

[sonstig](#)

[TSE](#)



C-Tick



EG-Konf.

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Shipping Approval

other



RINA



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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=3VL2716-1SP36-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL2716-1SP36-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2716-1SP36-0AA0

CAX-Online-Generator

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

Tender specifications

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