



CIRCUIT-BREAKER VL 160N STANDARD BREAKING CAPACITY
ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION ELECTRONIC
TRIP UNIT ETU10, LI IN=63A, RATED CURRENT IR=25-63A,
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	ETU10
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	63 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	63 A
• of instantaneous short-circuit trip unit / initial value	79 A
• of instantaneous short-circuit trip unit / Full-scale value	693 A

Main circuit

Operating frequency

• 1 / rated value	50 Hz
• 2 / rated value	60 Hz

Operating voltage

• 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	63 A
• at 50 °C / rated value	63 A
• at 55 °C / rated value	59.9 A
• at 60 °C / rated value	59.9 A
• at 65 °C / rated value	50.4 A
• at 70 °C / rated value	50.4 A

Suitability

Suitability for use	system protection
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	25 A
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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
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Product function

Product function

• of thermal overload trip unit	adjustable
• Ground fault protection	No

- for neutral conductors / Short-circuit and overload proof
- Overload protection

No

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

- | | |
|------------------------------|--------|
| • 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 | Q |
| • acc. to DIN EN 61346-2 | |

General Product Approval		EMC	Declaration of Conformity
 CCC	sonstig	 EAC	TSE
		 C-Tick	 EG-Konf.

Test Certificates	Shipping Approval		other		
spezielle Prüfbescheinigungen n	 RINA	 RMRS	Umweltbestätigung	Bestätigungen	sonstig

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL2706-1SB36-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VL2706-1SB36-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2706-1SB36-0AA0

CAX-Online-Generator

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

Tender specifications

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