

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU545
General technical data		
Number of poles		3
Tripping characteristics / Upper tolerance band		AK_VL_ETU42_LSIGN_u.txt
Tripping characteristics / Lower tolerance band		AK_VL400_TM_I_o.txt
Size of the circuit-breaker		3VL2 UL
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	1/s	120
Voltage		
Rated operational voltage U _e / max.	V	690
Insulation voltage		
• Rated value	V	800
• at AC / Rated value	V	800
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSI
Dissipation		
Active power loss		
• maximum	W	40
Electricity		
Continuous current / Rated value	A	150
Derating temperature / for the rated value of the continuous current		
• acc. to UL 489	°C	40
Adjustable response value current		
• of the current-dependent overload release / Full-scale value	A	150

- of the instantaneous short-circuit release / initial value
- of the instantaneous short-circuit release / Full-scale value

A	1 650
A	1 650

Main circuit

Operating frequency

- 1 / Rated value
- 2 / Rated value

Hz	50
Hz	60

Operating voltage

- for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum
- for main current circuit / at AC / at 50 Hz / maximum
- for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum
- for main current circuit / at AC / at 60 Hz / maximum

V	600
V	690
V	600
V	690

Operating current

- at 40 °C / Rated value
- at 50 °C / Rated value
- at 55 °C / Rated value
- at 60 °C / Rated value

A	150
A	142.5
A	120
A	120

Auxiliary circuit

Number of CO contacts / for auxiliary contacts

0

Number of NC contacts / for auxiliary contacts

1

Number of NO contacts / for auxiliary contacts

2

Suitability

Suitability for use

system/generator protection

Adjustable parameters

Adjustable response value current / of the current-dependent overload release / initial value

A	60
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Product details

Product component

- Trip indicator
- Auxiliary switch
- Voltage trigger
- undervoltage release
- undervoltage release with leading contact

Yes
Yes
No
No
No

Product expansion / optional / motor drive

Yes

Product function

Product function

- of the thermal overload release
- 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 690 V / Rated value

kA 75

kA 70

kA 6

Maximum short-circuit current breaking capacity (Icu)

- at 240 V / Rated value
- at 415 V / Rated value
- at 480 V / acc. to NEMA / Rated value
- at 600 V / acc. to NEMA / Rated value
- at 690 V / Rated value

kA 100

kA 70

kA 65

kA 20

kA 12

Connections

Arrangement of electrical connectors / for main current circuit

front side

Type of connectable conductor cross-section

- for main contacts
 - with flexible busbar
 - solid
 - stranded
- for auxiliary contacts
 - solid
 - finely stranded / with core end processing

22 x 7 mm

10 ... 50 mm²

10 ... 50 mm²

0.75 ... 1.5 mm²

0,75 ... 1.0 mm²

Type of electrical connection / for main current circuit

without connection accessoires

Mechanical Design

Height

mm 174.5

Width

mm 104.5

Depth

mm 106.5

Mounting type

fixed mounting

Environmental conditions

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

°C -25

°C 70

°C -40

°C 80

Certificates

Certificate of suitability		UL high switching capacity (H), non-interchangeable
Equipment marking		Q
• acc. to DIN EN 61346-2		

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval	other
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other

[Bestätigungen](#)

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/3VL21152GE300AD1>

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

<http://support.automation.siemens.com/WW/view/en/3VL21152GE300AD1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL21152GE300AD1

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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