

BREAKER VL CAT NMB. NJG3B300 300A T/M 3P 35KA NO-LUGS

### Model

Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM

### General technical data

Number of poles	3
Size of the circuit-breaker	3VL4 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
Reference identifier / 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

### Electricity

Operating current / at 45 °C / rated value	279 A
Continuous current / rated value	300 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	300 A
• of instantaneous short-circuit trip unit / initial value	1 500 A
• of instantaneous short-circuit trip unit / Full-scale value	3 000 A

### Main circuit

<b>Operating frequency</b>	
<ul style="list-style-type: none"> <li>• 1 / rated value</li> <li>• 2 / rated value</li> </ul>	<p>50 Hz</p> <p>60 Hz</p>
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• rated value / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum</li> </ul>	600 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum</li> </ul>	600 V
<ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 60 Hz / maximum</li> </ul>	690 V
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	300 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	279 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	258 A
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	258 A

#### Suitability

<b>Suitability for use</b>	system protection
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#### Adjustable parameters

<b>Adjustable pick-up value current / of the current-dependent overload release / initial value</b>	300 A
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#### Product details

<b>Product component</b>	
<ul style="list-style-type: none"> <li>• Trip indicator</li> <li>• Auxiliary switch</li> <li>• Voltage trigger</li> <li>• undervoltage release</li> <li>• undervoltage release with leading contact</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
Product extension / optional / motor drive	Yes

#### Product function

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> <li>• Ground fault protection</li> <li>• for neutral conductors / Short-circuit and overload proof</li> <li>• Overload protection</li> </ul>	<p>fixed</p> <p>No</p> <p>No</p> <p>Yes</p>

#### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>	
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- at 240 V / rated value 65 kA
- at 415 V / rated value 45 kA
- at 690 V / rated value 6 kA

<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• at 240 V / rated value	65 kA
• at 415 V / rated value	45 kA
• at 480 V / acc. to NEMA / rated value	35 kA
• at 600 V / acc. to NEMA / rated value	25 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	without connection accessoires

### Mechanical Design

<b>Height</b>	279.5 mm
<b>Width</b>	139.5 mm
<b>Depth</b>	163.5 mm
<b>Mounting type</b>	fixed mounting

### Certificates

<b>Certificate of suitability</b>	UL standard switching capacity (N), non-interchangeable
• Reference identifier / acc. to DIN EN 61346-2	Q

#### General Product Approval

#### EMC

#### Test Certificates

#### Shipping Approval



[Miscellaneous](#)



[Special Test Certificate](#)



#### other

[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?mfb=3VL4030-1KN30-0AA0>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3VL4030-1KN30-0AA0>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VL4030-1KN30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL4030-1KN30-0AA0)