

circuit breaker VL400 UL; type JG (cat no. HJX3B300) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole, NEMA rating 65kA/480V, (molded case circuit breaker) Electronic Trip Unit TM, LI TA=40°C In=< 300A, rated current I<sub>n</sub>=1500...3000A short-circuit protection IR=300A Electronic Trip Unit for line protection without connection accessories without auxiliary release without auxiliary/alarm switch

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
mechanical service life (switching cycles) / typical	20 000
electrical endurance (switching cycles) / typical	10 000
utilization category	A
performance class for circuit breaker	N
reference code / 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 <sub>e</sub> / max.	690 V
<ul style="list-style-type: none"> <li>insulation voltage / rated value</li> </ul>	800 V
<ul style="list-style-type: none"> <li>insulation voltage (U<sub>i</sub>) / at AC / rated value</li> </ul>	800 V
surge voltage resistance / rated value	8 kV
operating voltage	
<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
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
<ul style="list-style-type: none"> <li>at 40 °C / rated value</li> </ul>	300 A
<ul style="list-style-type: none"> <li>at 45 °C / rated value</li> </ul>	279 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
continuous current / rated value	300 A
derating temperature / for the rated value of the continuous current	50 °C
<ul style="list-style-type: none"> <li>acc. to UL 489</li> </ul>	40 °C
adjustable current response value current	
<ul style="list-style-type: none"> <li>of the current-dependent overload release / full-scale value</li> </ul>	300 A
<ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / minimum</li> </ul>	1 500 A
<ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / maximum</li> </ul>	3 000 A
Main circuit	
operating frequency	

<ul style="list-style-type: none"> <li>• 1 / rated value</li> <li>• 2 / rated value</li> </ul>	50 Hz 60 Hz
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
<b>Suitability</b>	
suitability for use	system protection
<b>Adjustable parameters</b>	
adjustable current response value current / of the current-dependent overload release / initial value	300 A
<b>Product details</b>	
product component	
<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>	No No No No No
product extension / optional / motor drive	Yes
<b>Product function</b>	
product function	
<ul style="list-style-type: none"> <li>• of thermal overload trip unit</li> <li>• grounding protection</li> <li>• for neutral conductors / short-circuit and overload proof</li> <li>• overload protection</li> </ul>	fixed No No Yes
<b>Short circuit</b>	
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	75 kA 70 kA 8 kA
breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 480 V / acc. to NEMA / rated value</li> <li>• at 600 V / acc. to NEMA / rated value</li> <li>• at 690 V / rated value</li> </ul>	100 kA 70 kA 65 kA 25 kA 15 kA
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	front side
type of electrical connection / for main current circuit	without connection accessoires
<b>Mechanical Design</b>	
height	279.5 mm
width	139.5 mm
depth	163.5 mm
fastening method	fixed mounting
<b>Environmental conditions</b>	
ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0 °C 70 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-40 °C 80 °C
<b>General Product Approval</b>	EMC



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Confirmation](#)

[Environmental Confirmations](#)

[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=3VL4130-2KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4130-2KN30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VL4130-2KN30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VL4130-2KN30-0AA0)

**CAx-Online-Generator**

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

**Tender specifications**

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



