



CIRCUIT-BREAKER VL 400X UL; TYPE LG (CAT NO. HLX3B500) NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-BREAKER TO UL489 HIGH BREAKING CAPACITY 3-POLE, NEMA RATING 65KA/480V AND 18KA/600V (MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE TM, LI TU= 40 DEGR. CELSIUS IN= < 500A, RATED CURRENT II= 2500...5000A SHORT-CIRCUIT PROTECTION IR= 500A OVERCURRENT RELEASE F. PLANT PROTECTION W/O CONNECTION ACCESSORIES

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	3VL4X 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	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
<b>Protection class</b>	
Protection class IP	IP20
Protective function of the overcurrent release	LI
<b>Dissipation</b>	
Power loss [W]	
• maximum	230 W
<b>Electricity</b>	
Continuous current / rated value	500 A
Derating temperature / for the rated value of the continuous current	
• acc. to UL 489	40 °C
<b>Adjustable pick-up value current</b>	
• of the current-dependent overload release / Full-scale value	500 A
• of instantaneous short-circuit trip unit / initial value	2 500 A
• of instantaneous short-circuit trip unit / Full-scale value	5 000 A
<b>Main circuit</b>	
<b>Operating frequency</b>	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
<b>Operating voltage</b>	
• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
• for main current circuit / at DC / acc. to UL 489 / maximum	500 V
<b>Operating current</b>	
• at 40 °C / rated value	500 A
• at 50 °C / rated value	465 A
• at 55 °C / rated value	430 A
• at 60 °C / rated value	430 A
<b>Suitability</b>	
Suitability for use	system protection

Adjustable parameters	
Adjustable pick-up value current / of the current-dependent overload release / initial value	500 A
Product details	
<b>Product component</b>	
• 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	
<b>Product function</b>	
• of thermal overload trip unit	fixed
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes
Short circuit	
<b>Operational short-circuit current breaking capacity (Ics)</b>	
• at 240 V / rated value	75 kA
• at 415 V / rated value	70 kA
• at 690 V / rated value	8 kA
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
• at 240 V / rated value	100 kA
• at 415 V / rated value	70 kA
• at 480 V / acc. to NEMA / rated value	65 kA
• at 600 V / acc. to NEMA / rated value	25 kA
• at 690 V / rated value	15 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
Environmental conditions	

<b>Ambient temperature</b>	
• during operation / minimum	0 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

**Certificates**

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

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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<b>Test Certificates</b>	<b>Shipping Approval</b>	<b>other</b>
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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=3VL4850-2KN30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4850-2KN30-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VL4850-2KN30-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4850-2KN30-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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