

circuit breaker VL400X UL; type LG (cat no. HLM3Y600) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole, NEMA rating 65kA/480V and 18kA/600V (motor starter protector) trip unit magnetic TA=40°C In≤ 600A, rated current II=2750..5500A short-circuit protection starter combination without connection accessories without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	M
General technical data	
number of poles	3
size of the circuit-breaker	3VL4X UL
mechanical service life (operating cycles) typical	20 000
electrical endurance (operating cycles) typical	10 000
utilization category	A
performance class for circuit breaker	N
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
operating frequency maximum	120 1/s
Voltage	
Rated operational voltage Ue max.	690 V
- insulation voltage rated value - insulation voltage (Ui) at AC rated value	800 V
surge voltage resistance rated value	8 kV
operating voltage - rated value maximum - for main current circuit at AC at 50 Hz according to UL 489 maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 60 Hz according to UL 489 maximum - for main current circuit at AC at 60 Hz maximum - for main current circuit at DC according to UL 489 maximum	690 V 600 V 690 V 600 V 690 V 500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	I
Main circuit	
operating frequency 1 rated value 2 rated value	50 Hz 60 Hz
operating power at AC-3 - at 230 V rated value - at 400 V rated value	110.4 kW 332.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use	Starter protection
Product details	
product component - trip indicator - auxiliary switch	No No

• voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
product extension optional motor drive	Yes

Product function

product function	
• of thermal overload trip unit	without
• grounding protection	No
• for neutral conductors short-circuit and overload proof	No
• overload protection	No

Short circuit

operating short-circuit current breaking capacity (Ics)	
• at 240 V rated value	75 kA
• at 415 V rated value	70 kA
• at 690 V rated value	8 kA
maximum short-circuit current breaking capacity (Icu)	
• at 240 V rated value	100 kA
• at 415 V rated value	70 kA
• at 480 V according to NEMA rated value	65 kA
• at 600 V according to NEMA rated value	18 kA
• at 690 V rated value	15 kA

Connections

arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections for main contacts	
• with flexible busbar	32 x 10 mm
type of connectable conductor cross-sections for auxiliary contacts	
• solid	0.75 ... 1.5 mm ²
• finely stranded with core end processing	0,75 ... 1.0 mm ²
type of electrical connection for main current circuit	without connection accessoires

Mechanical Design

height	279.5 mm
width	139.5 mm
depth	163.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature during operation	
• minimum	0 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	80 °C

Approvals Certificates

General Product Approval	Test Certificates
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[Confirmation](#)



[Special Test Certificate](#)

other	Environment
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[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3VL4860-2KK30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL4860-2KK30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4860-2KK30-0AA0

CAX-Online-Generator

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

Tender specifications

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

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