

circuit breaker VL630H high breaking capacity I_{cu}=70kA, 415V AC 4-pole, line protection trip unit TM, LI I_n=500A, rated current IR=400...500A, overload protection, II=2500...5000A, short-circuit protection N unprotected 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	4
size of the circuit-breaker	3VL5
mechanical service life (switching cycles) / typical	10 000
electrical endurance (switching cycles) / typical	5 000
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	60 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
operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LI
Current	
operational current	
• at 40 °C / rated value	500 A
• at 45 °C / rated value	500 A
• at 50 °C / rated value	500 A
• at 55 °C / rated value	465 A
• at 60 °C / rated value	465 A
• at 65 °C / rated value	430 A
• at 70 °C / rated value	430 A
continuous current / rated value	500 A
derating temperature / for the rated value of the continuous current	50 °C
adjustable current response value current	
• 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
Main circuit	
operating frequency	
• 1 / rated value	50 Hz

• 2 / rated value	60 Hz
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	system protection
Adjustable parameters	
adjustable current response value current / of the current-dependent overload release / initial value	400 A
Product details	
product component	
• 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	
product function	
• of thermal overload trip unit	adjustable
• grounding protection	No
• for neutral conductors / short-circuit and overload proof	No
• overload protection	Yes
Short circuit	
breaking capacity operating short-circuit current (Ics)	
• at 240 V / rated value	75 kA
• at 415 V / rated value	70 kA
• at 500 V / rated value	30 kA
• at 690 V / rated value	10 kA
breaking capacity maximum short-circuit current (Icu)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	70 kA
• at 440 V / rated value	50 kA
• at 480 V / acc. to NEMA / rated value	50 kA
• at 500 V / rated value	40 kA
• at 600 V / acc. to NEMA / rated value	30 kA
• at 690 V / rated value	20 kA
Connections	
arrangement of electrical connectors / for main current circuit	front side
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	screw-type terminals
Mechanical Design	
height	279.5 mm
width	253.5 mm
depth	138.5 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

Certificates

certificate of suitability	IEC, high switching capacity (H)
reference code	Q
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 	

General Product Approval	EMC	Declaration of Conformity
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[Miscellaneous](#)



[TSE](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)



Marine / Shipping

other



[Environmental Confirmations](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)

[Confirmation](#)

other

[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?mlfb=3VL5750-2EJ46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL5750-2EJ46-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5750-2EJ46-0AA0

CAx-Online-Generator

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

Tender specifications

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

