## **SIEMENS**

## **Data sheet**

## 3VL5763-1DC36-0AA0

circuit breaker VL630N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection trip unit TM, LI In=630A, rated current IR=500...630A, overload protection, II=3250...6500A, short-circuit protection 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	3VL5
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) typical	5 000
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	60 1/s
Voltage	
Rated operational voltage Ue max.	690 V
<ul> <li>insulation voltage rated value</li> </ul>	800 V
<ul> <li>insulation voltage (Ui) at AC rated value</li> </ul>	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
<ul> <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	
- Carrent	
operational current	
	630 A
operational current	630 A 630 A
operational current  • at 40 °C rated value	
operational current  • at 40 °C rated value  • at 45 °C rated value	630 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value	630 A 630 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value	630 A 630 A 585.9 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value	630 A 630 A 585.9 A 585.9 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 60 °C rated value	630 A 630 A 585.9 A 585.9 A 541.8 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current	630 A 630 A 585.9 A 585.9 A 541.8 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value derating temperature for the rated value of the continuous current adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 67 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 65 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum  Main circuit  operating frequency	630 A 630 A 585.9 A 585.9 A 541.8 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum  Main circuit  operating frequency  • 1 rated value	630 A 630 A 585.9 A 585.9 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum  Main circuit  operating frequency  • 1 rated value  • 2 rated value	630 A 630 A 585.9 A 585.9 A 541.8 A 630 A 50 °C
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum  Main circuit  operating frequency  • 1 rated value  • 2 rated value  Auxiliary circuit	630 A 630 A 585.9 A 585.9 A 541.8 A 630 A 50 °C 630 A 3 150 A 6 300 A
operational current  • at 40 °C rated value  • at 45 °C rated value  • at 50 °C rated value  • at 55 °C rated value  • at 60 °C rated value  • at 65 °C rated value  • at 70 °C rated value  continuous current rated value  derating temperature for the rated value of the continuous current  adjustable current response value current  • of the current-dependent overload release full-scale value  • of instantaneous short-circuit trip unit minimum  • of instantaneous short-circuit trip unit maximum  Main circuit  operating frequency  • 1 rated value  • 2 rated value  Auxiliary circuit  number of CO contacts for auxiliary contacts	630 A 630 A 585.9 A 585.9 A 541.8 A 630 A 50 °C 630 A 3 150 A 6 300 A

Suitability		
suitability for use	system protection	
Adjustable parameters		
adjustable current response value current of the current- dependent overload release initial value	504 A	
Product details		
product component		
trip indicator	No	
auxiliary switch	No	
voltage trigger	No	
<ul> <li>undervoltage release</li> </ul>	No	
<ul> <li>undervoltage release with leading contact</li> </ul>	No	
product extension optional motor drive	Yes	
Product function		
product function		
<ul> <li>of thermal overload trip unit</li> </ul>	adjustable	
grounding protection	No	
<ul> <li>for neutral conductors short-circuit and overload proof</li> </ul>	No	
overload protection	Yes	
Short circuit		
operating short-circuit current breaking capacity (lcs)		
<ul> <li>at 240 V rated value</li> </ul>	65 kA	
<ul> <li>at 415 V rated value</li> </ul>	55 kA	
<ul> <li>at 500 V rated value</li> </ul>	20 kA	
<ul> <li>at 690 V rated value</li> </ul>	10 kA	
maximum short-circuit current breaking capacity (Icu)		
at 240 V rated value	65 kA	
at 415 V rated value	55 kA	
• at 440 V rated value	35 kA	
at 480 V according to NEMA rated value	25 kA	
• at 500 V rated value	25 kA	
<ul> <li>at 600 V according to NEMA rated value</li> <li>at 690 V rated value</li> </ul>	20 kA 20 kA	
Connections	20 KA	
arrangement of electrical connectors for main current	front side	
circuit	HOIR Side	
type of connectable conductor cross-sections for auxiliary contacts		
• solid	0.75 1.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0,75 1.0 mm²	
type of electrical connection for main current circuit	screw-type terminals	
Mechanical Design		
height	279.5 mm	
width	190 mm	
depth	138.5 mm	
fastening method	fixed mounting	
Environmental conditions		
ambient temperature during operation	0.00	
<ul><li>minimum</li><li>maximum</li></ul>	0 °C 70 °C	
	70 0	
ambient temperature during storage  • minimum	-40 °C	
• maximum	80 °C	
General Product Approval		EMC
Miscellaneous Confirmation	TQE	_

Miscellaneous Confirmation



<u>TSE</u>



**Test Certificates** 

Marine / Shipping





Special Test Certificate







Marine / Shipping

other









Environmental Confirmations

**Miscellaneous** 

other

<u>Confirmation</u> <u>Miscellaneous</u>

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VL5763-1DC36-0AA0

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

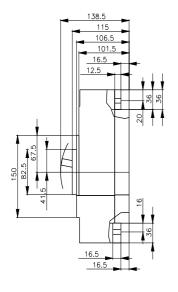
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL5763-1DC36-0AA0

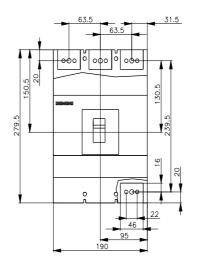
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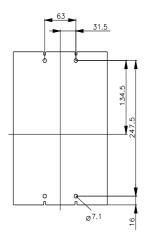
http://www.siemens.com/cax

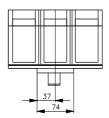
**Tender specifications** 

http://www.siemens.com/specifications









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