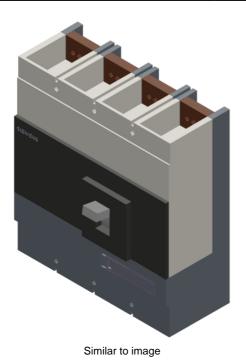
## **SIEMENS**

Product data sheet 3VL5763-1EJ46-0AE1



CIRCUIT-BREAKER VL 630N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 4 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=630A, RATED CURRENT IR=500-630A, OVERLOAD II=3250-6500A, SHORT CIRCUIT N NOT PROTECTED

General technical data:		
Number of poles		4
Design of the overcurrent release		TM
Acceptability for application		system protection
Electrical operating cycles as operating time / typical		5,000
Mechanical operating cycles as operating time / typical		10,000
Active power loss / maximum	W	230
Product component		
auxiliary switch		Yes
Voltage trigger		No
undervoltage release mechanism		No
undervoltage release with leading contact		No
Product function		
of the thermal overload release		adjustable
ground-fault protection		No
• for zero conductors / short-circuit and overload protection		No
overload protection		Yes
Operating cycles / maximum	1/s	60
Protection class IP		IP20

Ambient temperature  • during operating  • minimum  • during storage  • minimum  • during storage  • minimum  • maximum  • C -40  • maximum  • C 50  Main circuit:  Insulation voltage / for AC / rated value  Operating frequency  • 1 / rated value  • 1 / 2 / rated value  • 2 / rated value  • 1 / 8 80  Operating to DIN 40719 extendable after IEC 2042 / according to IEC 750  • according to DIN 40719 extendable after IEC 2042 / according to IEC 750  • for main current circuit • at 50 Hz / for AC  • maximum  • for DC • maximum  • for DC • maximum  • for DC • maximum  • at 80 Hz / for AC • maximum  • for DC • maximum  • for DC • maximum  • at 80 TC / rated value  • at 80 °C / rated value  • a	Protective function of the overcurrent release		LI
• during operating • minimum • maximum • maximum • "C	Impulse voltage resistance / rated value	kV	8
• minimum	Ambient temperature		
• maximum  • during storage • minimum • maximum  • according to Quarting frequency • 1 / rated value • 1/ rated value • 1/ rated value • 2 / rated value • 1/ rated val	during operating		
thinimum th	• minimum	°C	-25
• minimum     • maximum	• maximum	°C	70
*maximum	during storage		
Main circuit:  Insulation voltage / for AC / rated value  Operating frequency  - 1 / rated value  + 2 / rated value  - 3 cocording to DIN 40719 extendable after IEC 204-2 / according to IEC 750  - according to DIN EN 61346-2  Q  Operating voltage  - 1 for main current circuit  - at 50 Hz / for AC  - maximum  - at 60 Hz / for AC  - maximum  - to EC  - maximum  - to EC  - maximum  Operating current  - at 40 °C / rated value  - at 50 °C / rated value  - at 60 °C / rated value  -	• minimum	°C	-40
Insulation voltage / for AC / rated value  Operating frequency  - 1 / rated value  - 2 / rated value  Hz 50  - 2 / rated value  Hz 60  Item designation  - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750  - according to DIN EN 61346-2  Operating voltage  - for main current circuit  - at 50 Hz / for AC  - maximum  - at 60 Hz / for AC  - maximum  - for DC  - maximum  - to 40 **C / rated value  - at 40 **C / rated value  - at 60 **C / rated value  - at 70	• maximum	°C	50
Operating frequency	Main circuit:		
- 1 / rated value	Insulation voltage / for AC / rated value	V	800
**Part   *	Operating frequency		
Item designation  * according to DIN 40719 extendable after IEC 204-2 / according to IEC 750  * according to DIN EN 61346-2  Operating voltage  * for main current circuit  * at 50 Hz / for AC  * maximum  * to 60 Hz / for AC  * maximum  * for DC  * maximum  * for DC  * maximum  * maximu	• 1 / rated value	Hz	50
according to DIN 40719 extendable after IEC 204-2 / according to IEC 750  according to DIN EN 61346-2  Operating voltage  • for main current circuit  • at 50 Hz / for AC  • maximum  • at 60 Hz / for AC  • maximum  • for DC  • maximum  • tof DC  • maximum  • at 40 °C / rated value  • at 50 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated value  • at 70 °C / rated value  A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  Short-circuit:	• 2 / rated value	Hz	60
to IEC 750  - according to DIN EN 61346-2  Operating voltage  - for main current circuit  - at 50 Hz / for AC  - maximum  - at 60 Hz / for AC  - maximum  - for DC  - maximum  - to C / rated value  - at 40 °C / rated value  - at 60 °C / rated value  - at 70 °C / rated value  - at 60 °C / rated value  - at 70 °C / rated value  - a	Item designation		
Operating voltage  • for main current circuit  • at 50 Hz / for AC  • maximum  • at 60 Hz / for AC  • maximum  • for DC  • maximum  • tor DC  • maximum  • at 40 °C / rated value  • at 50 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated value  • at 70 °C / rated value  • at 60 °C / rated value  • at 50 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated va			Q
• for main current circuit     • at 50 Hz / for AC     • maximum     • at 60 Hz / for AC     • maximum     • tor DC     • maximum     • tor DC     • maximum     • tor DC     • maximum     • at 40 °C / rated value     • at 50 °C / rated value     • at 50 °C / rated value     • at 60 °C / rated value     • at 70 °C / rated value	according to DIN EN 61346-2		Q
* at 50 Hz / for AC     * maximum     * at 60 Hz / for AC     * maximum     * for DC     * maximum     * v	Operating voltage		
* maximum     * at 60 Hz / for AC     * maximum     * for DC     * maximum     V 500  Operating current      * at 40 °C / rated value     * at 50 °C / rated value     * at 60 °C / rated value     * at 70 °C / rated value     * at 70 °C / rated value     A 585.9     * at 70 °C / rated value     A 630  Continuous current / rated value  A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Short-circuit:	for main current circuit		
* at 60 Hz / for AC     * maximum     * for DC     * maximum     V 500  Operating current      * at 40 °C / rated value     * at 50 °C / rated value     * at 60 °C / rated value     * at 70 °C / rated value  A 541.8  Continuous current / rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Short-circuit:	• at 50 Hz / for AC		
• maximum     • for DC     • maximum     V 500  Operating current      • at 40 °C / rated value     • at 50 °C / rated value     • at 60 °C / rated value     • at 70 °C / rated value     A 541.8  Continuous current / rated value     A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	• maximum	V	690
• for DC     • maximum  Operating current  • at 40 °C / rated value  • at 50 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated value  • at 70 °C / rated value  A 585.9  • at 70 °C / rated value  A 630  Continuous current / rated value  A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Short-circuit:	• at 60 Hz / for AC		
• maximum  Operating current      • at 40 °C / rated value     • at 50 °C / rated value     • at 60 °C / rated value     • at 60 °C / rated value     • at 70 °C / rated value  A 541.8  Continuous current / rated value     A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  I Number of NO contacts / for auxiliary contacts  2  Short-circuit:	• maximum	V	690
Operating current  • at 40 °C / rated value  • at 50 °C / rated value  • at 60 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated value  • at 70 °C / rated value  A 541.8  Continuous current / rated value  A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	• for DC		
at 40 °C / rated value  at 50 °C / rated value  at 60 °C / rated value  at 60 °C / rated value  at 70 °C / rated value  At 585.9  at 70 °C / rated value  At 630  Continuous current / rated value  At 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	• maximum	V	500
at 50 °C / rated value  at 60 °C / rated value  at 70 °C / rated value  A 541.8  Continuous current / rated value  A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	Operating current		
* at 60 °C / rated value     * at 70 °C / rated value     A 585.9      * at 70 °C / rated value     A 630  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	• at 40 °C / rated value	Α	630
• at 70 °C / rated value  Continuous current / rated value  A 630  Derating temperature / for the rated value of the continuous current  C 50  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  I Number of NO contacts / for auxiliary contacts  Short-circuit:	• at 50 °C / rated value	Α	630
Continuous current / rated value  A 630  Derating temperature / for the rated value of the continuous current  **C 50  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	• at 60 °C / rated value	Α	585.9
Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts 2  Short-circuit:	• at 70 °C / rated value	Α	541.8
Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  1  Number of NO contacts / for auxiliary contacts  2  Short-circuit:	Continuous current / rated value	Α	630
Number of NC contacts / for auxiliary contacts  1 Number of NO contacts / for auxiliary contacts  2 Short-circuit:	Derating temperature / for the rated value of the continuous current	°C	50
Number of NO contacts / for auxiliary contacts 2  Short-circuit:	Auxiliary circuit:		
Short-circuit:	Number of NC contacts / for auxiliary contacts		1
	Number of NO contacts / for auxiliary contacts		2
Adjustable response current	Short-circuit:		
	Adjustable response current		

of the current-dependent overload release		
• initial value	Α	504
• final value	Α	630
of the non-delayed short-circuit release		
• initial value	Α	3,150
• final value	Α	6,300
Breaking capacity limit short-circuit current (lcu) / at 415 V / rated value	kA	55

Installation/mounting/dimensions:		
Type of mounting		fixed mounting
Height	mm	279.5
Width	mm	253.5
Depth	mm	138.5

Connections:	
Arrangement of electrical connectors / for main current circuit	front side
Design of the electrical connection / for main current circuit	screw-type terminals
Type of the connectable conductor cross-section	
• for auxiliary contacts	
• solid	0,75 1.5 mm <sup>2</sup>
• finely stranded / with conductor end processing	0.75 1.0 mm <sup>2</sup>

## Certificates/approvals:

## Further information:

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

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

Industry Mall (Online ordering system)

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

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

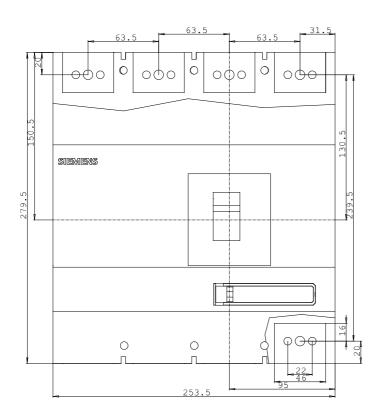
http://support.automation.siemens.com/WW/view/en/3VL5763-1EJ46-0AE1/all

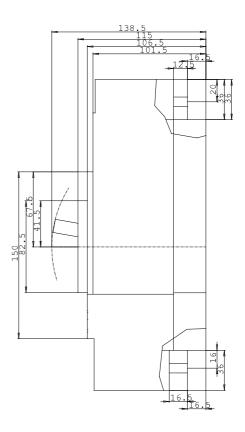
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL5763-1EJ46-0AE1

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last change: Feb 8, 2013