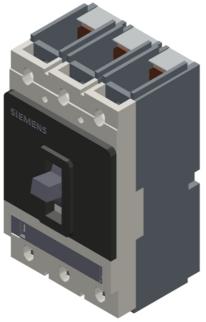
## **Product data sheet**



Similar to image

CIRCUIT-BREAKER VL 250N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=250A, RATED CURRENT IR=200-250A, OVERLOAD II=1200-2500A, SHORT-CIRCUIT

General technical data:		
Number of poles		3
Design of the overcurrent release		TM
Acceptability for application		system protection
Electrical operating cycles as operating time / typical		10,000
Mechanical operating cycles as operating time / typical		20,000
Active power loss / maximum	W	80
Product component		
auxiliary switch		No
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	120
Protection class IP		IP20

Impulse voltage resistance / rated value Ambient temperature - during operating - minimum - maximum - rinaximum -	Protective function of the overcurrent release		LI
• during operating         • minimum         *C         25           • maximum         *C         70           • during storage         • minimum         *C         40           • maximum         *C         40           Main circuit:           Insulation voltage / for AC / rated value         V         800           Operating frequency           • 1 / rated value         Hz         50           Lem designation         Hz         60           • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q         Q           • according to DIN EN 61346-2         Q         Q           Operating voltage         • To maximum         V         690           • at 50 Hz / for AC         • maximum         V         690           • for DC         • maximum         V         500           • Operating current         • A         250           • at 60 *C / rated value         A         250           • at 60 *C / rated value         A         250           • at 60 *C / rated value         A         250           • at 60 *C / rated value         A         250           • at 60 *C / rated value	Impulse voltage resistance / rated value	kV	8
• minimum         °C         25           • during storage         - minimum         °C         -40           • minimum         °C         50           Main circuit:         Imminimum         °C         -40           Smulation voltage / for AC / rated value         V         800           Operating frequency         +1 / rated value         Hz         50           +1 / rated value         Hz         60           Item designation         -2 / rated value         Q         Q           • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q         Q           • according to DIN EN 61348-2         Q         Q           Operating current         • at 50 Hz / for AC         Parameter direcuit         Q           • at 60 Hz / for AC         • maximum         V         690           • for DC         • maximum         V         690           • for DC         • maximum         V         500           Operating current         • at 40 °C / rated value         A         250           • at 50 °C / rated value         A         250           • at 70 °C / rated value         A         250           • at 70 °C	Ambient temperature		
• maximum • during storage • ninimum • maximum • "C 40 • maximum • "C 40 • maximum • "C 40 • maximum • "C 50   Main cruit:  Insulation voltage / for AC / rated value  V 800  Operating frequency • 1/ rated value • 1/ rated valu	during operating		
• during storage         • minimum         °C         -40           • maximum         °C         50           Main circuit:           Insulation voltage / for AC / rated value         V         800           Operating frequency           • 1 / rated value         Hz         50           Item designation         Hz         60           • according to DIN 40719 extendable after IEC 204-2 / according to EC 750         Q           • according to DIN EN 61346-2         Q           Operating voltage         Q           • for main current circuit         • at 50 Hz / for AC           • maximum         V         690           • at 60 Hz / for AC         • maximum           • for DC         • maximum         V         690           • remainmum         V         500           Operating current           • at 40 °C / rated value         A         250           • at 50 °C / rated value         A         250           • at 70 °C / rated value         A         250           • at 70 °C / rated value         A         250           • at 70 °C / rated value         A         250           • at 70 °C / rated value <td< td=""><td>• minimum</td><td>°C</td><td>-25</td></td<>	• minimum	°C	-25
• minimum         °C         40           • maximum         °C         50           Main circuit:           Insulation voltage / for AC / rated value         V         800           Operating frequency           • 1 / rated value         Hz         50           • 2 / rated value         Hz         60           Item designation         Q         Q           • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q           • according to DIN EN 61346-2         Q           Operating voltage         Q           • for maximum         V         690           • at 50 Hz / for AC         Paraminum           • for DC         Paraminum         V         690           • for DC         Paraminum         V         500           Operating current         A         250           • at 60 °C / rated value         A         250           • at 60 °C / rated value         A         250           • at 60 °C / rated value         A         250           • at 70 °C / rated value         A         250           • at 70 °C / rated value         A         250           • at 70 °C / rated value <td>• maximum</td> <td>°C</td> <td>70</td>	• maximum	°C	70
• maximum         °C         50           Main circuit:         Insulation voltage / for AC / rated value           Operating frequency         V         800           • 1 / rated value         Hz         50           • 2 / rated value         Hz         60           Item designation         • 20         Concording to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q           • according to DIN EN 61346-2         Q         Q           Operating voltage         Q         Q           • for main current circuit         • at 50 Hz / for AC         • maximum         V         690           • at 60 Hz / for AC         • maximum         V         690         • 690           • for DC         • maximum         V         500         • 70           • parting current         • at 40 °C / rated value         A         250         • 250	during storage		
Insulation voltage / for AC / rated value  Operating frequency  - 1/ rated value - 2 / rated value - 2 / rated value - 3 / rated value - 4 / rated value - 4 / rated value - 5 / rated value - 6 / rated value - 6 / rated value - 6 / rated value - 7 / rated value - 8 / rated value - 8 / rated value - 9 / rated value - 10 / rated value - 11 / rated value - 12 / rated value - 13 / rated value - 14 / rated value - 15 / rated value - 15 / rated value - 16 / rated value - 17 / rated value - 18 / rated value -	• minimum	°C	-40
Insulation voltage / for AC / rated value	• maximum	°C	50
Name	Main circuit:		
• 1/ rated value • 2 / rated value    Hz   50     +	Insulation voltage / for AC / rated value	V	800
tem 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     v 690     at 60 Hz / for AC     maximum     v 690  Operating current  at 40 Hz / for AC     maximum     v 500  Operating current  at 40 °C / rated value     at 50 °C / rated value     at 50 °C / rated value     at 70 °C / rated value     A 250  Continuous current / rated value     A 250  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	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  • at 60 Hz / for AC  • maximum  • for DC  • maximum  • at 0° C / rated value  • at 50° C / rated value  • at 50° C / rated value  • at 70° C / rated val	• 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  to For DC  maximum  for DC  maximum  to 40 °C / rated value  at 60 °C / rated value  at 60 °C / rated value  at 70 °C / rated value  at 70 °C / rated value  A 250  Continuous current / for the rated value of the continuous current  Auxillary circuit:  Number of NC contacts / for auxillary contacts  Number of NO contacts / for auxillary contacts	• 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  * 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  * at 250  Continuous current / rated value  * A 250  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	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 60 °C / rated value  • at 70 °C / rated value  • A 250  • at 70 °C / rated value  • A 250  Continuous current / rated value  A 250  Continuous current / rated value of the continuous  current  O Short-circuit:			Q
• for main current circuit  • at 50 Hz / for AC  • maximum  • at 60 Hz / for AC  • maximum  • for DC  • maximum  • for DC  • maximum  • 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 250  • at 70 °C / rated value  • A 250  •	according to DIN EN 61346-2		Q
at 50 Hz / for AC     maximum     at 60 Hz / for AC     maximum     v 690      for DC     maximum     v 500  Coperating current     at 40 °C / rated value     at 50 °C / rated value     at 60 °C / rated value     at 60 °C / rated value     at 60 °C / rated value     at 70 °C / rated va	Operating voltage		
• maximum         V         690           • at 60 Hz / for AC         V         690           • for DC         V         500           • maximum         V         500           Operating current           • at 40 °C / rated value         A         250           • at 50 °C / rated value         A         232.5           • at 70 °C / rated value         A         215           Continuous current / rated value of the continuous current           Perating temperature / for the rated value of the continuous current         °C         50           Auxiliary circuit:           Number of NC contacts / for auxiliary contacts         0           Number of NO contacts / for auxiliary contacts         0	• 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     * at 70 °C / rated value     A 232.5     * at 70 °C / rated value     A 250  Operating 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  Number of NO contacts / for auxiliary contacts  O  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     • at 70 °C / rated value     A 250     Oberating current / rated value     A 250     • at 70 °C / rated value     A 215  Continuous current / rated value     A 250  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  O  Short-circuit:	• maximum	V	690
• for DC     • maximum     V 500  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 215  Continuous current / rated value     A 250  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 50 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated value  A 232.5  • at 70 °C / rated value  A 215  Continuous current / rated value  A 250  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  O  Short-circuit:	• maximum	V	690
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 215  Continuous current / rated value  A 250  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  O  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 70 °C / rated value  A 215  Continuous current / rated value  A 250  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:	• maximum	V	500
at 50 °C / rated value  at 60 °C / rated value  at 70 °C / rated value  A 232.5  at 70 °C / rated value  A 250  Continuous current / rated value  A 250  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:	Operating current		
• at 60 °C / rated value     • at 70 °C / rated value     A 232.5  Continuous current / rated value     A 250  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 40 °C / rated value	Α	250
• at 70 °C / rated value  A 215  Continuous current / rated value  A 250  Derating temperature / for the rated value of the continuous current  **C 50  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Short-circuit:	• at 50 °C / rated value	Α	250
Continuous current / rated value  A 250  Derating temperature / for the rated value of the continuous current  **C 50  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Short-circuit:	• at 60 °C / rated value	Α	232.5
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  0  Short-circuit:	• at 70 °C / rated value	Α	215
Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  0  Short-circuit:	Continuous current / rated value	Α	250
Number of NC contacts / for auxiliary contacts  0  Number of NO contacts / for auxiliary contacts  0  Short-circuit:		°C	50
Number of NO contacts / for auxiliary contacts 0  Short-circuit:	Auxiliary circuit:		
Short-circuit:	Number of NC contacts / for auxiliary contacts		0
	Number of NO contacts / for auxiliary contacts		0
Adjustable response current	Short-circuit:		
	Adjustable response current		

of the current-dependent overload release		
• initial value	Α	200
• final value	Α	250
of the non-delayed short-circuit release		
• initial value	Α	1,250
• final value	Α	2,500
Breaking capacity limit short-circuit current (lcu) / at 415 V / rated value	kA	55

Installation/mounting/dimensions:		
Type of mounting		fixed mounting
Height	mm	185.5
Width	mm	104.5
Depth	mm	106.5

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 main contacts	
with flexible busbar	17 x 10 mm
• solid	25 185 mm²
<ul> <li>finely stranded / with conductor end processing</li> </ul>	25 120 mm²
• stranded	25 185 mm²
for auxiliary contacts	
• solid	0,75 1.5 mm²
• finely stranded / with conductor end processing	0.75 1.0 mm²

## Certificates/approvals:

Connections:

## Further information:

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

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

Industry Mall (Online ordering system)

 $\underline{\text{http://www.siemens.com/lowvoltage/mall}}$ 

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

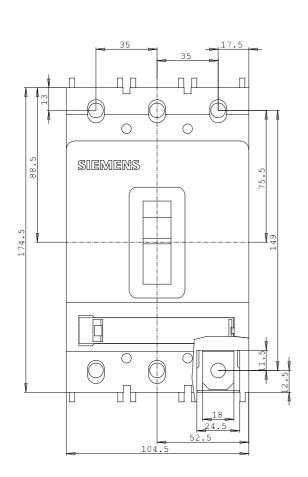
http://support.automation.siemens.com/WW/view/en/3VL3725-1DC36-0AA0/all

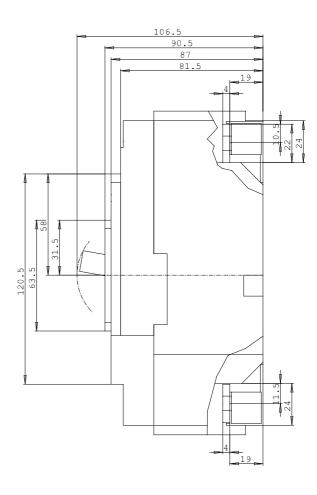
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL3725-1DC36-0AA0}$ 

**CAx-Online-Generator** 

http://www.siemens.com/cax





last change: Feb 8, 2013