## **Product data sheet**



CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=200A, RATED CURRENT IR=160-200A, OVERLOAD II=1000-2000A, SHORT-CIRCUIT

CIRCUIT-BREAKER VL 250N STANDARD BREAKING

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	Protective function of the overcurrent release		LI
• during operating         • minimum         *C         25           • maximum         *C         70           • 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           Lem designation         Bz         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         • for maximum         V         690           • at 50 Hz / for AC         • maximum         V         690           • for DC         • maximum         V         500           Operating current         • A         200           • at 60 *C / rated value         A         200           • at 60 *C / rated value         A         200           • at 60 *C / rated value         A         126           • at 60 *C / rated value         A         200           • rate of the created value of th	Impulse voltage resistance / rated value	kV	8
• minimum         °C         25           • during storage         - minimum         °C         40           • minimum         °C         50           • maximum         °C         50           • 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           • 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         • for main current circuit         • at 50 Hz / for AC         • maximum         V         690           • 10 C         • maximum         V         690         • for DC         • maximum         V         690           • 10 C         • maximum         V         500         • for parating current         • at 40 °C / rated value         A         200           • at 40 °C / rated value         A         200         • for parating temperature / for the rated value of the c	Ambient temperature		
• maximum         *C         70           • during storage         *nimimum         *C         40           • maximum         *C         50           Main circuit:           Insulation voltage / for AC / rated value         V         800           Operating frequency           • 1/ rated value         Hz         60           Item designation         Btz         60           • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q           • according to DIN EN 61346-2         Q           Operating voltage         • for main current circuit           • at 80 Hz / for AC         • maximum           • for abol 12 / for AC         • maximum           • for BO Hz / for AC         • maximum           • for BO Hz / for AC         • maximum           • for BO Hz / for AC         • for BO Hz / for AC           • maximum         V         690           • for BO Hz / for AC         • for BO Hz / for AC           • maximum         V         690           • for BO Hz / for AC         • for BO Hz / for AC           • at 50 °C / rated value         A         200           • at 60 °C / rated value         A         200 </td <td>during operating</td> <td></td> <td></td>	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           text em designation         • 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           • for DC         • maximum           • for DC         • maximum           • for DC         • maximum           • at 50 °C / rated value         A 200           • at 40 °C / rated value         A 200           • at 50 °C / rated value         A 186           • at 70 °C / rated value         A 200           • at 70 °C / rated value         A 200           • at 70 °C / rated value         A 200           • at 70 °C / rated value         A 200           • at 70 °C / rated value         A 200           • at 70 °C / rated value         A 200           • at 70 °C / rated value<	• 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           • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q           • according to DIN EN 61346-2         Q           Operating voltage           • for maximum         V         690           • at 50 Hz / for AC         • maximum           • for DC         • maximum         V         690           • for DC         • maximum         V         500           • maximum         V         500         Operating current           • for C/ rated value         A         200         A           • at 60 °C / rated value         A         200         A           • at 60 °C / rated value         A         186         A         200           • at 70 °C / rated value         A         200         A         186         A         200 <td< td=""><td>• maximum</td><td>°C</td><td>70</td></td<>	• maximum	°C	70
• maximum         °C         50           Main circuit:           Insulation voltage / for AC / rated value         V         800           Operating frequency         - (2) / rated value         Hz         50           • 1 / rated value         Hz         60           Item designation         - (2) / rated value         Hz         60           • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750         Q         C           • according to DIN EN 61346-2         Q         C           Operating voltage         - (a) / (a) / (a) / (a) / (a)         A         C           • maximum         V         690         A         C         A         C         A         C         A         A         C         A         C         A         A         C         A         C         A         A         C         A         A         A         A         C         A         A         C         A         A         A         C         C         A         A         C         C         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A<	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 - 5 / 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     +   60	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 60 °C / rated value     at 70 °C / rated value	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  • to rDC  • maximum  • at 0° C / rated value  • at 50 °C / rated value  • at 50 °C / rated value  • at 60 °C / rated value  • at 60 °C / rated value  • at 70 °C / rated value  •	• 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  v 690  at 60 Hz / for AC  maximum  v 690  for DC  maximum  v 500  Operating current  at 40 °C / rated value  at 60 °C / rated value  at 60 °C / rated value  at 60 °C / rated value  at 70 °C / rated value  A 200  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 valu	Item designation		
Operating voltage  • for main current circuit  • at 50 Hz / for AC  • maximum  • at 60 Hz / for AC  • maximum  • for 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 200  Perating current  • at 40 °C / rated value  • A 186  • at 70 °C / rated value  A 172  Continuous current / rated value  A 200  Perating 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  Number of NO contacts / for auxiliary contacts  O  Short-circuit:			Q
• 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 / r	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 70 °C / rated va	Operating voltage		
* maximum     * at 60 Hz / for AC     * maximum     * for DC     * maximum     * or DC     * maximum     * or DC     * maximum     * or O/C rated value     * 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     * or O/C / rated value      * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C / rated value     * or O/C	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 186     * at 70 °C / rated value     A 172  Continuous current / rated value     A 200  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  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 172  Continuous current / rated value     A 200  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 70 °C / rated value     • at 70 °C / rated value     A 172  Continuous current / rated value     A 200  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 70 °C / rated value  A 186  • at 70 °C / rated value  A 200  Continuous current / rated value  A 200  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 172  Continuous current / rated value  A 200  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 186  at 70 °C / rated value  At 200  Continuous current / rated value  At 200  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  At 186  at 70 °C / rated value  At 200  Continuous current / rated value  At 200  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 172  Continuous current / rated value  A 200  Derating temperature / for the rated value of the continuous current  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  O  Short-circuit:	• at 40 °C / rated value	Α	200
• at 70 °C / rated value  Continuous current / rated value  A 200  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	200
Continuous current / rated value  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	186
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	172
Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  0  Short-circuit:	Continuous current / rated value	Α	200
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	160
• final value	Α	200
of the non-delayed short-circuit release		
• initial value	Α	1,000
• final value	Α	2,000
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

## Certificates/approvals:

## 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,...)

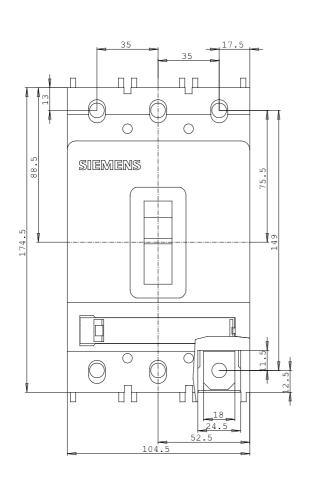
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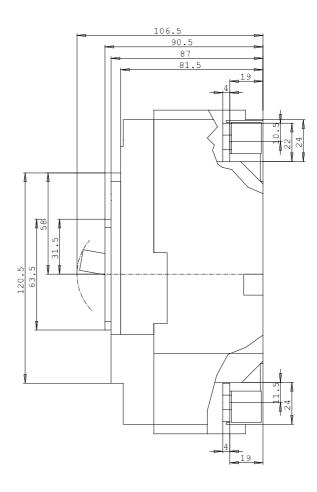
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 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL3720-1DC36-0AA0}$ 

## **CAx-Online-Generator**

http://www.siemens.com/cax





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