

CIRCUIT-BREAKER VL 400N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=400A, RATED CURRENT IR=320-400A, OVERLOAD II=2000-4000A, SHORT CIRCUIT

General technical data:

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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	175
Product component		
auxiliary switch		No
Voltage trigger		Yes
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

Ambient temperature • during operating • minimum • during storage • minimum • during storage • minimum • maximum • "C 40 • #0 • #0 • #0 • #0 • #0 • #0 • #0 • #	Protective function of the overcurrent release		LI
• during operating • minimum • maximum • maximum • during storage • minimum • maximum • maximum • "C 40 • maximum • "B 80 Main circuit: Insulation voltage / for AC / rated value Operating frequency • 1/ rated value • 12 / rated value • 12 / rated value • 2 / rated value • 12 / rated value • 16 / 750 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • 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 • raximum • v 690 Operating current • car 40 °C / rated value • at 60 °C / rated value • at 70 °C / r	Impulse voltage resistance / rated value	kV	8
	Ambient temperature		
	during operating		
turninum tu	• minimum	°C	-25
• minimum • maximum ***C*** **Main circuit: Insulation voltage / for AC / rated value **Operating frequency - 1 / rated value - 2 / rated value - 3 / rated value - 4 / rated value - 5 / rate value - 4 / rated value - 5 / rate value - 4 / rated value - 4 / rated value - 5 / rated value - 4 / rated value - 5 / rated value - 4 / rated value - 5 / rated value - 6 / rated value - 7 / ra	• maximum	°C	70
*maximum °C 80 Main circuit: Insulation voltage / for AC / rated value V 800 Operating frequency - 1 / rated value Hz 50 - 2 / rated value Hz 60 tem designation - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN EN 61346-2 Q Q Operating voltage - 1 or main current circuit - at 50 Hz / for AC - maximum V 690 - for DC - maximum V 500 Operating current - at 40 °C / rated value A 400 - at 50 °C / rated value A 372 - at 60 °C / rated value A 374 - at 70 °C / rated value A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Short-circuit: Number of NO contacts / for auxiliary contacts 0 Short-circuit:	during storage		
Main circuit: Insulation voltage / for AC / rated value Operating frequency - 1 / rated value - 2 / rated value - 3 / 4 / 5 / 6 / 6 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 7 / 8 / 8	• 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 - for DC - maximum - to 40 ° C / rated value - at 40 ° C / rated value - at 50 ° C / rated value - at 70 ° C /	• maximum	°C	80
Operating frequency	Main circuit:		
- 1 / rated value	Insulation voltage / for AC / rated value	V	800
*2 / rated value 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 *or DC *maximum *or DC *maximum *or DC *maximum *at 40 °C / rated value *at 50 °C / rated value *at 50 °C / rated value *at 50 °C / rated value *at 70 °C / ra	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 * for DC * maximum * 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 value * A	• 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 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value • at 70 °C / rated value 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 O Short-circuit:	• 2 / rated value	Hz	60
to IEC 750	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 va			Q
• for main current circuit • at 50 Hz / for AC • maximum • at 60 Hz / for AC • maximum • tor 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 372 • at 70 °C / rated value A 344 Continuous current / rated value A 400 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:	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 372 * at 70 °C / rated value 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:	• 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 70 °C / rated value at 70 °C / rated value A 344 Continuous current / rated value 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:	• 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 344 Continuous current / rated value A 400 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 372 • at 70 °C / rated value A 344 Continuous current / rated value A 400 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:	• at 60 Hz / for AC		
• maximum Operating current • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value A 344 Continuous current / rated value A 400 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 60 °C / rated value • at 70 °C / rated value A 344 Continuous current / rated value A 400 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 70 °C / rated value at 70 °C / rated value A 372 at 70 °C / rated value A 400 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit:	• maximum	V	500
* at 50 °C / rated value * at 60 °C / rated value * at 70 °C / rated value * at 70 °C / rated value A 344 Continuous current / rated value A 400 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:	Operating current		
at 60 °C / rated value at 70 °C / rated value A 344 Continuous current / rated value A 400 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 O Short-circuit:	• at 40 °C / rated value	Α	400
• at 70 °C / rated value Continuous current / rated value A 400 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 O Short-circuit:	• at 50 °C / rated value	Α	400
Continuous current / rated value A 400 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 50 Short-circuit:	• at 60 °C / rated value	Α	372
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	344
Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Short-circuit:	Continuous current / rated value	Α	400
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Short-circuit:	Derating temperature / for the rated value of the continuous current	°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	320
• final value	Α	400
of the non-delayed short-circuit release		
• initial value	Α	2,000
• final value	Α	4,000
Breaking capacity limit short-circuit current (lcu) / at 415 V / rated value	kA	55

Installation/mounting/dimensions:		
Type of mounting		fixed mounting
Height	mm	279.5
Width	mm	139
Depth	mm	163.5

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	
• solid	50 300 mm²
• stranded	50 300 mm²
for auxiliary contacts	
• solid	0.75 1.5 mm ²
• finely stranded / with conductor end processing	0,75 1.0 mm ²

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

 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

http://support.automation.siemens.com/WW/view/en/3VL4740-1DC36-8TA0/all

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

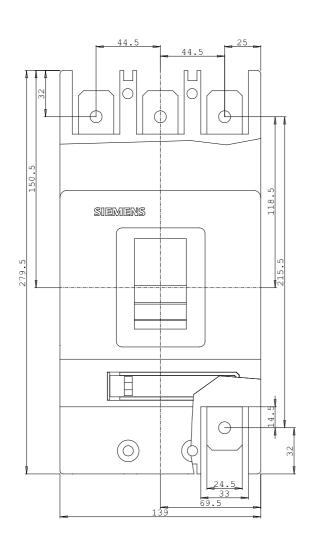
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1DC36-8TA0}$

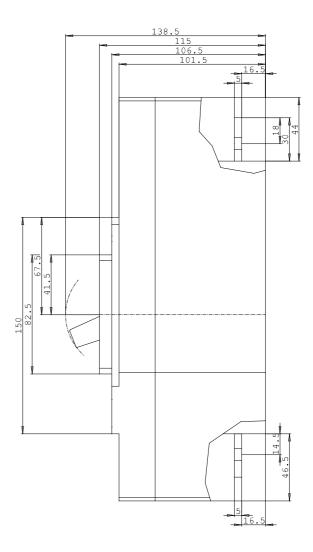
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

Datanorm GAEB81 GAEB83 RTF TXT





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