

Draw-out circuit breaker Without guide frame 3-pole,  
Size 2, IEC In=2000 A to 690 V, 50/60 Hz AC Icu=100  
kA at 500 V Rear horizontal connection



Model		
Product brand name		SENTRON
Product designation		ACB
Design of the auxiliary switch		4 NO + 4 NC
Design of the operating mechanism		Pushbutton
Type of the driving mechanism		Manual/motorized operating mechanism with mechanical and electrical closing
Type of the driving mechanism / motor drive		Yes
Design of the overcurrent release		ETU25B

General technical data		
Number of poles		3
Size of the circuit-breaker		2
Electrical endurance (switching cycles) / typical		15 000
Usage category		B
circuit-breaker / Design		3WL1220
Mechanical service life (switching cycles) / typical		15 000

Voltage		
Rated insulation voltage Ui	V	1 000

Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSI

Dissipation		
<b>Power loss [W]</b>		
<ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	W	106.7
<ul style="list-style-type: none"> <li>maximum</li> </ul>	W	320

Electricity		
Operating current / at 45 °C / rated value	A	2 000
Continuous current / rated value	A	2 000
<b>Adjustable pick-up value current</b>		
<ul style="list-style-type: none"> <li>of the current-dependent overload release / Full-scale value</li> </ul>	A	2 000
<ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / initial value</li> </ul>	A	40 000
<ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / Full-scale value</li> </ul>	A	40 000
<b>Short-time current resistance (Icw)</b>		
<ul style="list-style-type: none"> <li>limited to 0.5 s / rated value</li> </ul>	kA	100
<ul style="list-style-type: none"> <li>limited to 2 s / rated value</li> </ul>	kA	65
<ul style="list-style-type: none"> <li>limited to 3 s / rated value</li> </ul>	kA	50

## Main circuit

<b>Operating frequency</b>		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
<b>Operating voltage</b>		
• at AC / at 50/60 Hz / rated value	V	690
<b>Operating current</b>		
• at 40 °C / rated value	A	2 000
• at 50 °C / rated value	A	2 000
• at 55 °C / rated value	A	2 000
• at 60 °C / rated value	A	2 000
• at 65 °C / rated value	A	2 000
• at 70 °C / rated value	A	2 000

### Auxiliary circuit

<b>Number of NC contacts / for auxiliary contacts</b>		4
<b>Number of NO contacts / for auxiliary contacts</b>		4

### Suitability

<b>Suitability for use</b>		Plant / motor protection
----------------------------	--	--------------------------

### Adjustable parameters

<b>Adjustable pick-up value current / of the current-dependent overload release / initial value</b>	A	800
---	---	-----

### Product details

<b>Product component</b>		
• Trip indicator		Yes
• Voltage trigger		Yes
• undervoltage release		Yes
Product extension / optional / motor drive		No

### Product function

<b>Product function</b>		
• Ground fault protection		No
• Phase failure detection		Yes

### Display and operation

<b>Display version</b>		without display
------------------------	--	-----------------

### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 415 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	85
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 415 V / rated value	kA	100

• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	85
• at 1000/1150 V / rated value	kA	50
<b>Short-time current resistance (I<sub>cw</sub>) / limited to 1 s / rated value</b>	kA	85

### Connections

Arrangement of electrical connectors / for main current circuit		without guide frame
Type of electrical connection / for main current circuit		Blade contacts

### Mechanical Design





<b>Height</b>	mm	411.5
<b>Width</b>	mm	451
<b>Depth</b>	mm	337
<b>Mounting type</b>		drawer unit






### Environmental conditions

<b>Ambient temperature</b>		
• during operation / minimum	°C	-20
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	70

### Certificates

<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval		Declaration of Conformity	Test Certificates		Shipping Approval
 CCC	 VDE	 EG-Konf.	<a href="#">Miscellaneous</a>	<a href="#">Special Test Certificate</a>	 ABS

Shipping Approval					other
 BUREAU VERITAS	 GL	 LRS	 PRS	 RMRS	<a href="#">Environmental Confirmations</a>

other
<a href="#">Miscellaneous</a>

#### Further information

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-4CB35-4GN4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-4CB35-4GN4>

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

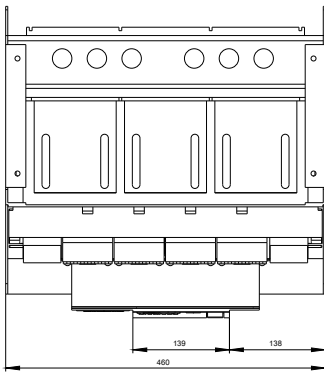
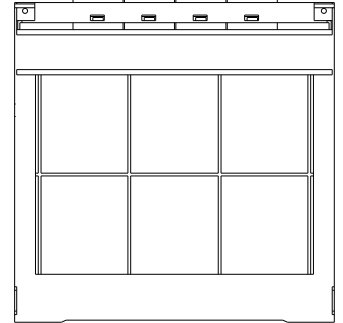
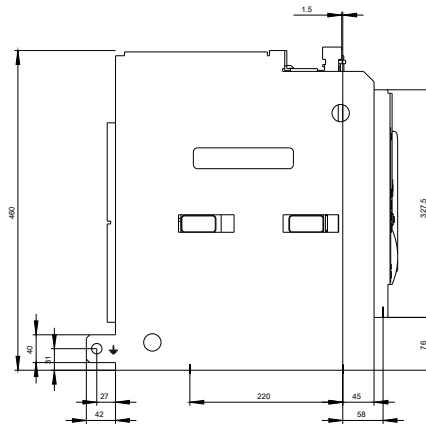
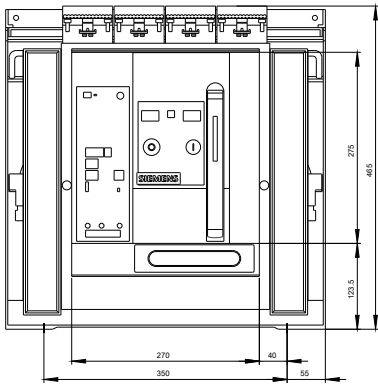
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1220-4CB35-4GN4](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-4CB35-4GN4)

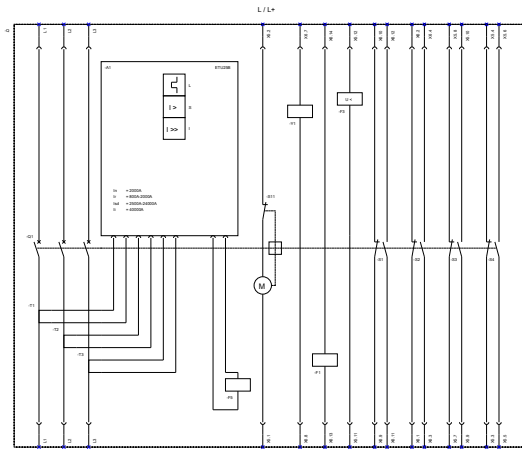
##### CAx-Online-Generator

<http://www.siemens.com/cax>

##### Tender specifications

<http://www.siemens.com/specifications>





1 (Energy) Time delay (Energieverzögerung) 2 (Short Time delay) (Kurzzeitverzögerung) 3 (Overload) (Überlastschutz) 4 (Overload) (Überlastschutz)  
 B11 (External motor shutdown switch) (Fremdstoppschalter) (Motor-Motorschalttafel) (Motor-Motorschalttafel) (Motor-Motorschalttafel)  
 P1 (Primary reference) (Primärreferenz) P2 (Secondary reference) (Sekundärreferenz) P3 (Tertiary reference) (Tertiärreferenz)  
 P4 (Quaternary reference) (Quartärreferenz) P5 (Quinary reference) (Quintärreferenz) P6 (Sextary reference) (Sextärreferenz) P7 (Septary reference) (Septärreferenz) P8 (Octary reference) (Oktärreferenz) P9 (Nonyary reference) (Nonyärreferenz) P10 (Decary reference) (Dekärreferenz) P11 (Undecary reference) (Undekärreferenz) P12 (Duodecary reference) (Duodekärreferenz) P13 (Tridecary reference) (Tridekärreferenz) P14 (Quodecary reference) (Quodekärreferenz) P15 (Quindecary reference) (Quindekärreferenz) P16 (Sexdecary reference) (Sexdekärreferenz) P17 (Septuagintary reference) (Septuagintärreferenz) P18 (Octogintary reference) (Oktogintärreferenz) P19 (Nonagintary reference) (Nonagintärreferenz) P20 (Centenary reference) (Centenärreferenz)

**last modified:**

03/08/2018