

FIXED-MOUNTED CIRCUIT BREAKER 3-POLE, SIZE I, IEC IN=2000A TO 690V, AC50/60HZ ICU=55KA AT 500V REAR CONNECTION HORIZONTAL



Model		
product brandname		SENTRON
Product designation		ACB
Design of the operating mechanism		Pushbutton
Type of the driving mechanism		Manual operating mechanism with mechanical closing
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU25B

General technical data		
Number of poles		3
Size of the circuit-breaker		1
Electrical endurance (switching cycles) / typical		15 000
Usage category		B
circuit-breaker / Design		3WL1120
Mechanical service life (switching cycles) / typical		15 000

Voltage		
Rated insulation voltage Ui	V	1 000
Insulation voltage / rated value	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	80
<ul style="list-style-type: none"> <li>maximum</li> </ul>	W	240



Electricity		
Continuous current / rated value	A	2 000
<b>Adjustable pick-up value current</b>		
<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 (I<sub>cw</sub>)</b>		
<ul style="list-style-type: none"> <li>limited to 0.5 s / rated value</li> </ul>	kA	55
<ul style="list-style-type: none"> <li>limited to 1 s / rated value</li> </ul>	kA	42
<ul style="list-style-type: none"> <li>limited to 2 s / rated value</li> </ul>	kA	29.5
<ul style="list-style-type: none"> <li>limited to 3 s / rated value</li> </ul>	kA	24

Main circuit		
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>1 / rated value</li> </ul>	Hz	50
<ul style="list-style-type: none"> <li>2 / rated value</li> </ul>	Hz	60
<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>at AC / at 50/60 Hz / rated value</li> </ul>	V	690
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>at 40 °C / rated value</li> </ul>	A	2 000
<ul style="list-style-type: none"> <li>at 50 °C / rated value</li> </ul>	A	2 000
<ul style="list-style-type: none"> <li>at 55 °C / rated value</li> </ul>	A	2 000
<ul style="list-style-type: none"> <li>at 60 °C / rated value</li> </ul>	A	1 930
<ul style="list-style-type: none"> <li>at 65 °C / rated value</li> </ul>	A	1 930
<ul style="list-style-type: none"> <li>at 70 °C / rated value</li> </ul>	A	1 780

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

Product details		
<b>Product component</b>		
<ul style="list-style-type: none"> <li>Trip indicator</li> </ul>		Yes
<ul style="list-style-type: none"> <li>Voltage trigger</li> </ul>		No
<ul style="list-style-type: none"> <li>undervoltage release</li> </ul>		No

Product extension / optional / motor drive		Yes
<b>Product function</b>		
<b>Product function</b>		No
• Ground fault protection		
<b>Display and operation</b>		
<b>Display version</b>		without display
<b>Short circuit</b>		
<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42
<b>Connections</b>		
Arrangement of electrical connectors / for main current circuit		Main terminal on the rear horizontal
Type of electrical connection / for main current circuit		busbar connection
<b>Mechanical Design</b>		
<b>Height</b>	mm	439.5
<b>Width</b>	mm	320
<b>Depth</b>	mm	337
<b>Mounting type</b>		fixed mounting
<b>Environmental conditions</b>		
<b>Ambient temperature</b>		
• during operation / minimum	°C	-20
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	70
<b>Certificates</b>		
<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="#">sonstig</a>	 ABS

Shipping Approval					
 BUREAU VERITAS	 DNV	 GL	 LRS	 PRS	 RMRS

other	
<a href="#">Umweltbestätigung</a>	<a href="#">sonstig</a>

### Further information

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1120-2CB32-1AA2>

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

<http://support.automation.siemens.com/WW/view/en/3WL1120-2CB32-1AA2/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1120-2CB32-1AA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1120-2CB32-1AA2)

**CAX-Online-Generator**

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

**Tender specifications**

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

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