

FIXED-MOUNTED CIRCUIT BREAKER 3-POLE, SIZE II, IEC IN=2000A TO 690V, AC50/60HZ ICU=80KA AT 500V FRNT.CONN. TOP/BOT. DUAL-HOLE

Model		
product brandname		SENTRON
Product designation		ACB
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		ETU15B

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
Insulation voltage / rated value	V	1 000

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

Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	60
• maximum	W	180

Electricity		
Continuous current / rated value	A	2 000
Adjustable pick-up value current		
• of instantaneous short-circuit trip unit / initial value	A	4 000
• of instantaneous short-circuit trip unit / Full-scale value	A	16 000
Short-time current resistance (Icw)		

- limited to 0.5 s / rated value
- limited to 1 s / rated value
- limited to 2 s / rated value
- limited to 3 s / rated value

kA	80
kA	66
kA	46
kA	44

Main circuit

Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• at AC / at 50/60 Hz / rated value	V	690
Operating current		
• 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

Number of NC contacts / for auxiliary contacts		4
Number of NO contacts / for auxiliary contacts		4

Suitability

Suitability for use		system protection
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Product details

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

Product function

Product function		
• Ground fault protection		No

Display and operation

Display version		without display
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Short circuit

Operational short-circuit current breaking capacity (Ics)		
• at 415 V / rated value	kA	80
• at 500 V / rated value	kA	80
• at 690 V / rated value	kA	75

Maximum short-circuit current breaking capacity (Icu)	• at 415 V / rated value	kA	80
	• at 500 V / rated value	kA	80
	• at 690 V / rated value	kA	75
Short-circuit current making capacity (Icm)	• at 415 V / rated value	kA	176
	• at 500 V / rated value	kA	176
	• at 690 V / rated value	kA	165

Connections

Arrangement of electrical connectors / for main current circuit		Main connection top front/bottom double hole
Type of electrical connection / for main current circuit		busbar connection

Mechanical Design

Height	mm	507
Width	mm	460
Depth	mm	369
Mounting type		fixed mounting

Environmental conditions

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

Certificates

Equipment marking		
	• acc. to DIN EN 61346-2	Q
	• acc. to DIN EN 81346-2	Q

General Product Approval			Declaration of Conformity	Test Certificates	
 CCC	 VDE		 EG-Konf.	spezielle Prüfbescheinigungen n	sonstig

Shipping Approval					
 ABS	 BUREAU VERITAS	 GL	 LRS	 PRS	 RMRS

other	
Umweltbestätigung	sonstig

Further information

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1220-3BB34-4AN4-Z_C27+K07

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

http://support.automation.siemens.com/WW/view/en/3WL1220-3BB34-4AN4-Z_C27+K07/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3BB34-4AN4-Z_C27+K07

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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