

WITHDRAWABLE CIRCUIT BREAKER WITHOUT
GUIDE FRAME 3-POLE, SIZE II, IEC IN=2000A TO
690V, AC50/60HZ ICU=100KA 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		ETU45B
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 U_i	V	1 000
Insulation voltage / rated value	V	1 000
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSIN
Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	106.7
• maximum	W	320
Electricity		
Continuous current / rated value	A	2 000
Adjustable pick-up value current		
• of instantaneous short-circuit trip unit / initial value	A	3 000
• of instantaneous short-circuit trip unit / Full-scale value	A	24 000

Short-time current resistance (I_{cw})		
• limited to 0.5 s / rated value	kA	100
• limited to 1 s / rated value	kA	85
• limited to 2 s / rated value	kA	65
• limited to 3 s / rated value	kA	50
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		Plant / motor protection
Product details		
Product component		
• Trip indicator		Yes
• Voltage trigger		No
• undervoltage release		No
Product extension / optional / motor drive		Yes
Product function		
Product function		
• Ground fault protection		No
Display and operation		
Display version		without display
Short circuit		
Operational short-circuit current breaking capacity (I_{cs})		
• at 415 V / rated value	kA	100
• at 500 V / rated value	kA	100

• at 690 V / rated value	kA	85
Maximum short-circuit current breaking capacity (Icu)		
• 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
Short-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	220
• at 500 V / rated value	kA	220
• at 690 V / rated value	kA	187
• at 1000/1150 V / rated value	kA	105

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

Mechanical Design		
Height	mm	411.5
Width	mm	451
Depth	mm	337
Mounting type		drawer unit

Environmental conditions		
Ambient temperature		
• during operation / minimum	°C	-20
• during operation / maximum	°C	55
• 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.	sonstig	spezielle Prüfbescheinigunge n

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/3WL1220-4EB35-1AA4>

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

<http://support.automation.siemens.com/WW/view/en/3WL1220-4EB35-1AA4/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-4EB35-1AA4

CAX-Online-Generator

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

Tender specifications

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

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