

WITHDRAWABLE CIRCUIT BREAKER WITH GUIDE
FRAME 3-POLE, SIZE II, IEC IN=2000A TO 690V,
AC50/60HZ ICU=66KA AT 500V W. CONNECTION
FLANGE

Model		
product brandname		SENTRON
Product designation		ACB
Design of the operating mechanism		Pushbutton
Type of the driving mechanism		Manual operating mechanism with mechanical and electrical 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		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		IP41
Protective function of the overcurrent release		LSI
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	40 000
• of instantaneous short-circuit trip unit / Full-scale value	A	40 000
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	66
kA	55
kA	39
kA	32

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

Suitability

Suitability for use	Plant / motor protection
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Product details

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

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	66
• at 500 V / rated value	kA	66
• at 690 V / rated value	kA	50
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	66
• at 500 V / rated value	kA	66
• at 690 V / rated value	kA	50

Connections

Arrangement of electrical connectors / for main current circuit		Rear connection flange
Type of electrical connection / for main current circuit		busbar connection

Mechanical Design

Height	mm	465.5
Width	mm	460
Depth	mm	429.5
Mounting type		drawer unit

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	Shipping Approval
 CCC	 VDE	 EG-Konf.	spezielle Prüfbescheinigungen n sonstig  ABS

Shipping Approval	other
 BUREAU VERITAS	 GL
 LRS	 PRS
	 RMRS
	Umweltbestätigung

other
sonstig

Further information

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-2CB38-2FA4-Z R21+T40>

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

<http://support.automation.siemens.com/WW/view/en/3WL1220-2CB38-2FA4-Z R21+T40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-2CB38-2FA4-Z R21+T40

CAX-Online-Generator

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

Tender specifications

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

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