

WITHDRAWABLE CIRCUIT BREAKER WITHOUT GUIDE FRAME 3-POLE, SIZE II, IEC IN=2000A TO 690V, AC50/60HZ ICU=66KA AT 500V REAR CONNECTION HORIZONTAL



Model		
product brand name		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		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
Insulation voltage / rated value	V	1 000

Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSI
Dissipation		
Power loss [W]		
<ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole 	W	106.7
<ul style="list-style-type: none"> maximum 	W	320
Electricity		
Continuous current / rated value	A	2 000
Adjustable pick-up value current		
<ul style="list-style-type: none"> of instantaneous short-circuit trip unit / initial value 	A	40 000
<ul style="list-style-type: none"> of instantaneous short-circuit trip unit / Full-scale value 	A	40 000
Short-time current resistance (I_{cw})		
<ul style="list-style-type: none"> limited to 0.5 s / rated value 	kA	66
<ul style="list-style-type: none"> limited to 1 s / rated value 	kA	55
<ul style="list-style-type: none"> limited to 2 s / rated value 	kA	39
<ul style="list-style-type: none"> limited to 3 s / rated value 	kA	32
Main circuit		
Operating frequency		
<ul style="list-style-type: none"> 1 / rated value 	Hz	50
<ul style="list-style-type: none"> 2 / rated value 	Hz	60
Operating voltage		
<ul style="list-style-type: none"> at AC / at 50/60 Hz / rated value 	V	690
Operating current		
<ul style="list-style-type: none"> at 40 °C / rated value 	A	2 000
<ul style="list-style-type: none"> at 50 °C / rated value 	A	2 000
<ul style="list-style-type: none"> at 55 °C / rated value 	A	2 000
<ul style="list-style-type: none"> at 60 °C / rated value 	A	2 000
<ul style="list-style-type: none"> at 65 °C / rated value 	A	2 000
<ul style="list-style-type: none"> 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		Yes
• 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	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
Short-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	145
• at 500 V / rated value	kA	145
• at 690 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	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	70

Certificates

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

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General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
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VDE



EG-Konf.

[sonstig](#)

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ABS

Shipping Approval	other
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GL



LRS



PRS



RMRS

[Umweltbestätigung](#)

other

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Further information

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1220-2CB35-4GN4>

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

<http://support.automation.siemens.com/WW/view/en/3WL1220-2CB35-4GN4/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3WL1220-2CB35-4GN4

CAX-Online-Generator

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

Tender specifications

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

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