

WITHDRAWABLE CIRCUIT BREAKER WITH GUIDE
FRAME 3-POLE, SIZE II, IEC IN=2000A TO 690V,
AC50/60HZ ICU=80KA 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		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 Ui	V	1 000
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSING
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		
Operating current / at 45 °C / rated value	A	2 000
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 • limited to 2 s / rated value • limited to 3 s / rated value	kA kA kA	80 46 44
Main circuit		
Operating frequency • 1 / rated value • 2 / rated value	Hz Hz	50 60
Operating voltage • at AC / at 50/60 Hz / rated value	V	690
Operating current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value	A A A	2 000 2 000 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
Adjustable parameters		
Adjustable pick-up value current • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value	A A	2 500 24 000
Product details		
Product component • Trip indicator • Voltage trigger • undervoltage release		Yes No Yes
Product extension / optional / motor drive		No
Product function		
Product function • Ground fault protection		Yes
Display and operation		
Display version		WITH 4-LINE DISPLAY
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-time current resistance (Icw) / limited to 1 s / rated value	kA	66

Connections		
Arrangement of electrical connectors / for main current circuit		Main terminal on the rear horizontal
Type of electrical connection / for main current circuit		busbar connection

Mechanical Design		
Height	mm	465.5
Width	mm	460
Depth	mm	456
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	Shipping Approval
 CCC	 VDE	 EG-Konf.	Miscellaneous Special Test Certificate  ABS

Shipping Approval					other
 BUREAU VERITAS	 GL	 LRS	 PRS	 RMRS	Environmental Confirmations

other
Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3FG36-5AM4-Z C11+C20+K07+R10+R15+R21+R30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3FG36-5AM4-Z C11+C20+K07+R10+R15+R21+R30>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3FG36-5AM4-Z C11+C20+K07+R10+R15+R21+R30

CAX-Online-Generator

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

Tender specifications

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

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