

withdrawable circuit breaker without guide frame 3-pole, size II, IEC
 In=2000A to 690V, AC50/60Hz Icu=80kA at 500V rear connection
 horizontal Overcurrent release ETU 45 LSING protection adjustable
 0.4-1 in with cubicle bus and Ground fault protection Opt.:
 Comm./measuring func./ZSS Motorized/manual operating
 mechanism with spring charging motor AC 50/60 Hz 110-127 V AC
 or 110-125 V DC Activation 50/60 Hz 110 V AC, 110 V DC With 1st
 auxiliary release Shunt release "F", F1 50/60 Hz 110 V AC/110 V DC,
 100% on-load factor without 2nd auxiliary release 2NO+2NC



Model	
product brand name	SENTRON
Product designation	ACB
Design of the product	IEC 60947-2
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
Usage category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage U_i	1 000 V
Operating voltage	690 V
• at AC / at 50/60 Hz / rated value	
Protection class	
Protection class IP	IP20
protection class IP / on the front	IP20
protection function of the overcurrent release	LSING
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	106.7 W
Current	
Operating current / at 45 °C / rated value	2 000 A
Continuous current / rated value	2 000 A
adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	2 000 A
• of instantaneous short-circuit trip unit / initial value	3 000 A
• of instantaneous short-circuit trip unit / Full-scale value	24 000 A
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating current	
• at 40 °C / rated value	2 000 A
• at 50 °C / rated value	2 000 A
• at 55 °C / rated value	2 000 A
• at 60 °C / rated value	2 000 A
• at 65 °C / rated value	2 000 A
• at 70 °C / rated value	2 000 A
Auxiliary circuit	

Number of NC contacts / for auxiliary contacts	2
Number of NO contacts / for auxiliary contacts	2
Suitability	
suitability for use	Plant / motor protection
Adjustable parameters	
adjustable pick-up value current	
• of the L-trip / with I _{4t} characteristic / initial value	800 A
• of the L-trip / with I _{4t} characteristic / Full-scale value	2 000 A
adjustable pick-up value current / of the current-dependent overload release / initial value	800 A
Product details	
Product component	
• Trip indicator	Yes
• Voltage trigger	Yes
• undervoltage release	No
Product extension / optional / motor drive	No
Product function	
Product function	
• Ground fault protection	Yes
• Phase failure detection	Yes
Display and operation	
Display version	without display
Short circuit	
Operational short-circuit current breaking capacity (I _{cs})	
• at 415 V / rated value	80 kA
• at 500 V / rated value	80 kA
• at 690 V / rated value	75 kA
Maximum short-circuit current breaking capacity (I _{cu})	
• at 415 V / rated value	80 kA
• at 500 V / rated value	80 kA
• at 690 V / rated value	75 kA
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	411.5 mm
Width	451 mm





Depth	337 mm
Mounting type	drawer unit

Environmental conditions

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



Certificates

• reference code / acc. to DIN EN 61346-2	Q
• Reference code / acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 VDE	 EG-Konf.	 ABS

[Miscellaneous](#)

[Special Test Certificate](#)

Shipping Approval	other
 BUREAU VERITAS	 LRS



[CCS / China Classification Society](#)

[Environmental Confirmations](#)

other
Manufacturer Declaration

[Confirmation](#)

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3EG35-5FA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3EG35-5FA2>

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

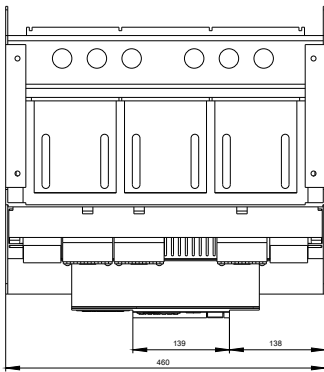
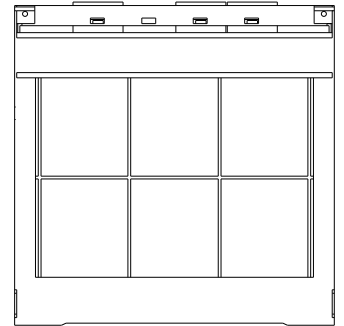
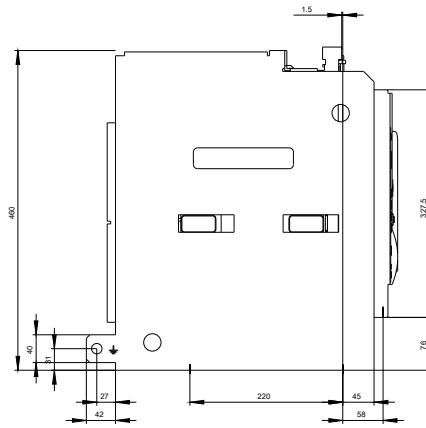
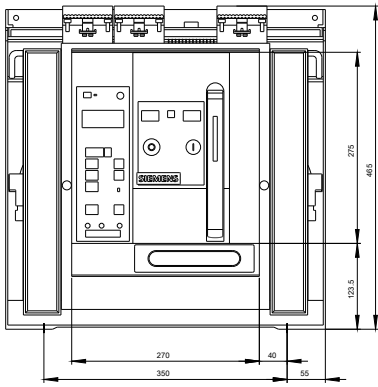
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3EG35-5FA2

CAX-Online-Generator

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

Tender specifications

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



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