

withdrawable circuit breaker without guide frame 3-pole, size I, IEC
In=1600A to 690V, AC50/60Hz Icu=55kA at 500V rear connection
horizontal Overcurrent release ETU 45 LSIN protection adjustable
0.4-1 in with cubicle bus Opt.: Comm. /measuring func./ground fault/
ZSS Motorized/manual operating mechanism with memory Drive
motor AC 50/60 Hz 208-240 V or 220-250 V DC Activation AC 50/60
Hz 230 V, 220 V DC With 1st auxiliary release Shunt release "F", F1
50/60 Hz 230 V AC/220 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 auxiliary switch	2 NO + 2 NC
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	1
Usage category	B
circuit-breaker / Design	3WL1

Voltage	
Rated insulation voltage U_i	1 000 V

Protection class	
Protection class IP	IP20
Protection class IP / on the front	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	116.7 W

Electricity	
Operating current / at 45 °C / rated value	1 600 A
Continuous current / rated value	1 600 A
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	1 600 A
• of instantaneous short-circuit trip unit / initial value	2 400 A
• of instantaneous short-circuit trip unit / Full-scale value	19 200 A

Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Operating current	
• at 40 °C / rated value	1 600 A
• at 50 °C / rated value	1 600 A
• at 55 °C / rated value	1 600 A
• at 60 °C / rated value	1 600 A
• at 65 °C / rated value	1 600 A
• at 70 °C / rated value	1 490 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 I4t characteristic / initial value	640 A
• of the L-trip / with I4t characteristic / Full-scale value	1 600 A
Adjustable pick-up value current / of the current-dependent overload release / initial value	640 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	No
• Phase failure detection	Yes
Display and operation	
Display version	without display
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 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	311 mm
Depth	337 mm
(mounting type)	drawer unit

Environmental conditions

Ambient temperature

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

Certificates

Reference code

- 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	Environmental Confirmations Manufacturer Declaration
 LRS	
 PRS	
 RMRS	

other
Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2EB35-4GA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2EB35-4GA2>

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

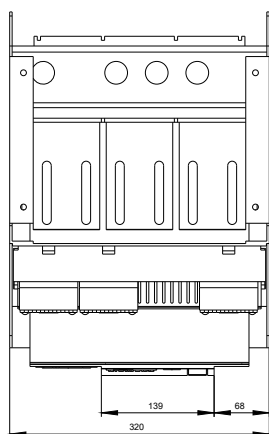
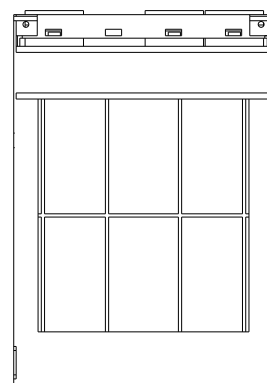
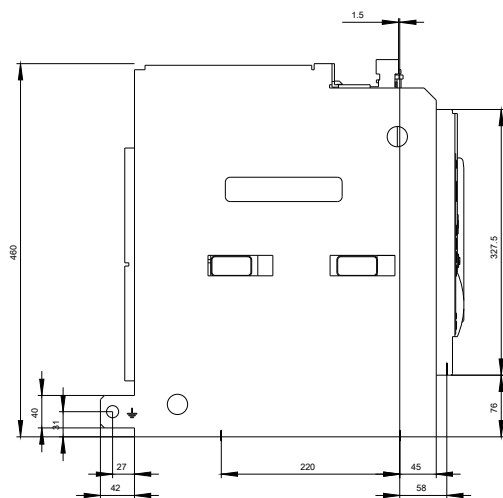
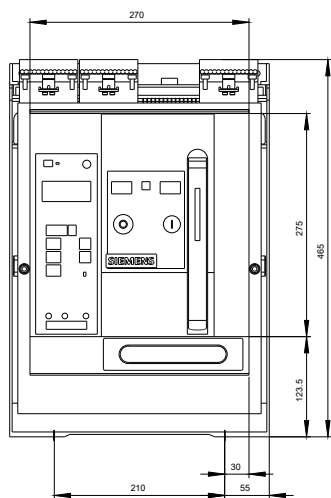
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2EB35-4GA2

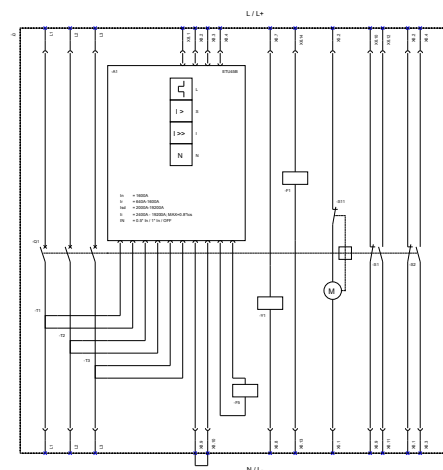
CAX-Online-Generator

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

Tender specifications

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





1: (Stop Time Delay) (Stoppzeitverzögerung) 2: (Start Time Delay) (Anlaufzeitverzögerung) 3: (Overload Protection) (Überlastschutz, Lastüberwachung)
 4: (Thermal Relay) (Thermal Relay) 5: (Thermal Relay) (Thermal Relay) 6: (Thermal Relay) (Thermal Relay) 7: (Thermal Relay) (Thermal Relay)
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04/02/2019