



fixed-mount non-aut. circuit-b. 3-pole, size I, IEC In=2000A to 690V, AC50/60Hz Icu=85kA at 500V rear connection vertical without overcurrent release 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 With 2nd auxiliary release "F", F2 Shunt release 110 V AC/DC 100% on-load factor 4NO+4NC A16= Version 690 V+20% only for 3WL size 1 Switch with high switching capacity C11= electrical On with sealing cap not possible with option F02 C22= Ready indicator S07= Locking device in OFF position w. 4 bracket locks (safe OFF/disconnector functionality) Disconnector condition IEC 60947-2

Model	
Product brand name	SENTRON
Product designation	ACB
Design of the auxiliary switch	4 NO + 4 NC
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	without
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	without
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	80 W
Electricity	
Operating current / at 45 °C / rated value	2 000 A
Continuous current / rated value	2 000 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	2 000 A
• at 50 °C / rated value	2 000 A
• at 55 °C / rated value	2 000 A
• at 60 °C / rated value	1 930 A
• at 65 °C / rated value	1 930 A
• at 70 °C / rated value	1 780 A
Auxiliary circuit	
Number of NC contacts / for auxiliary contacts	4
Number of NO contacts / for auxiliary contacts	4
Suitability	
Suitability for use	Contact unit without release

Product details

Product component	
• Trip indicator	No
• Voltage trigger	Yes
• undervoltage release	No
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	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	66 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	66 kA

Connections

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

Mechanical Design

Height	439.5 mm
Width	320 mm
Depth	390.5 mm
Mounting type	fixed mounting

Environmental conditions

Ambient temperature	
	-25 ... +70 °C
	-40 ... +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  ABS  BUREAU VERITAS

Shipping Approval	other
 LRS	CCS / China Classification Society Environmental Con- firmations Manufacturer De- claration
 PRS	
 RMRS	

other
Confirmation Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1120-4AA31-5FF4-Z A16+C11+C22+S07>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1120-4AA31-5FF4-Z A16+C11+C22+S07>

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

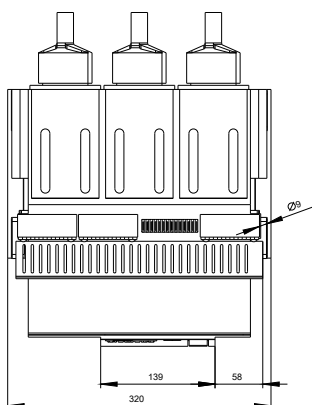
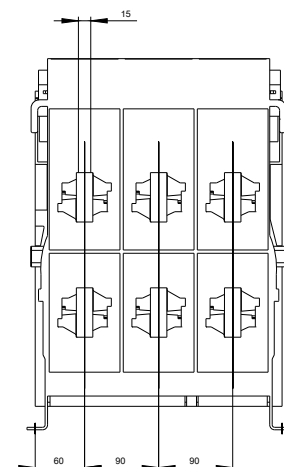
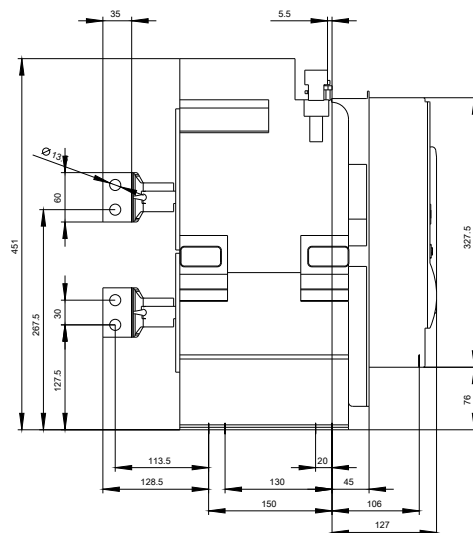
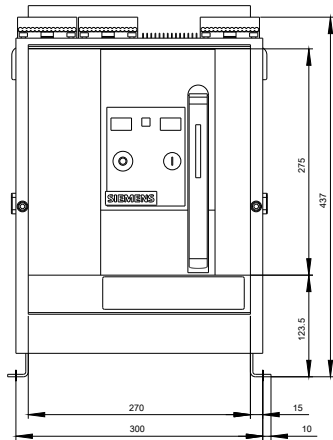
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1120-4AA31-5FF4-Z A16+C11+C22+S07

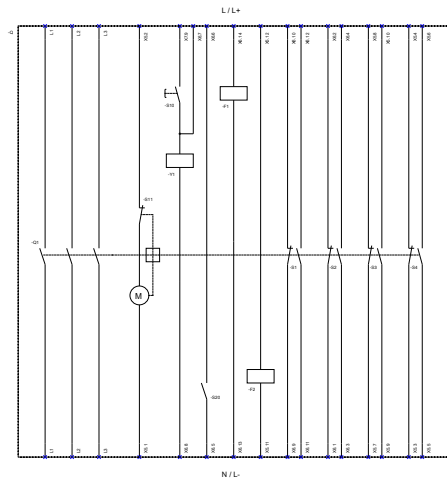
CAX-Online-Generator

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

Tender specifications

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





S11 (Internal motor shutdown switch, if spring is tensioned) / Interne Motorschaltvorrichtung, wenn Feder gespannt ist; S11 (1st auxiliary release / 1ster Hilfsauslöser);
 S2 (2nd auxiliary release / 2ster Hilfsauslöser); S3 - S8 (Auxiliary switch / Hilfskontakt); S12 (Lock Electrical);
 S20 (Ready to close signaling switch) / Einschlussbereitschaftsschalter; S7 (Closing lock / Einschlussverriegelung)

last modified:

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