

fixed-mount non-aut. circuit-b. 3-pole, size I, IEC In=1600A to 690V, AC50/60Hz Icu=55kA at 500V rear connection horizontal without overcurrent release With manual operating mechanism with storage with mechanical request 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 actuating element	Pushbutton
type of the driving mechanism	Manual operating mechanism with mechanical closing
type of the driving mechanism / motor drive	No
design of the overcurrent release	without
General technical data	
number of poles	3
size of the circuit-breaker	1
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage Ui	1 000 V
insulation voltage / rated value	1 000 V
operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
protection class IP	IP20
protection class IP / on the front	IP20
protection function of the overcurrent release	without
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	50 W
• maximum	150 W
Current	
operational current	
• at 40 °C / rated value	1 600 A
• at 45 °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
continuous current / rated value / maximum	1 600 A
continuous current / rated value	1 600 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Auxiliary circuit	
number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2
Suitability	

suitability for use	Contact unit without release
<b>Product details</b>	
product component	
• trip indicator	No
• voltage trigger	Yes
• undervoltage release	No
design of the auxiliary switch	2 NO + 2 NC
product extension / optional / motor drive	Yes
<b>Product function</b>	
product function	
• grounding protection	No
<b>Display and operation</b>	
display version	without display
<b>Short circuit</b>	
breaking capacity operating short-circuit current (Ics)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
breaking capacity maximum short-circuit current (Icu)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Main connection rear side horizontal
type of electrical connection / for main current circuit	busbar connection
<b>Mechanical Design</b>	
height	439.5 mm
width	320 mm
depth	337 mm
fastening method	fixed mounting
<b>Environmental conditions</b>	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>
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[UK Declaration of Conformity](#)

[Miscellaneous](#)

<b>Test Certificates</b>	<b>Marine / Shipping</b>
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



<b>Marine / Shipping</b>	<b>other</b>
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Dangerous Good

Transport Information

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3WL1116-2AA32-1FA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2AA32-1FA2>

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

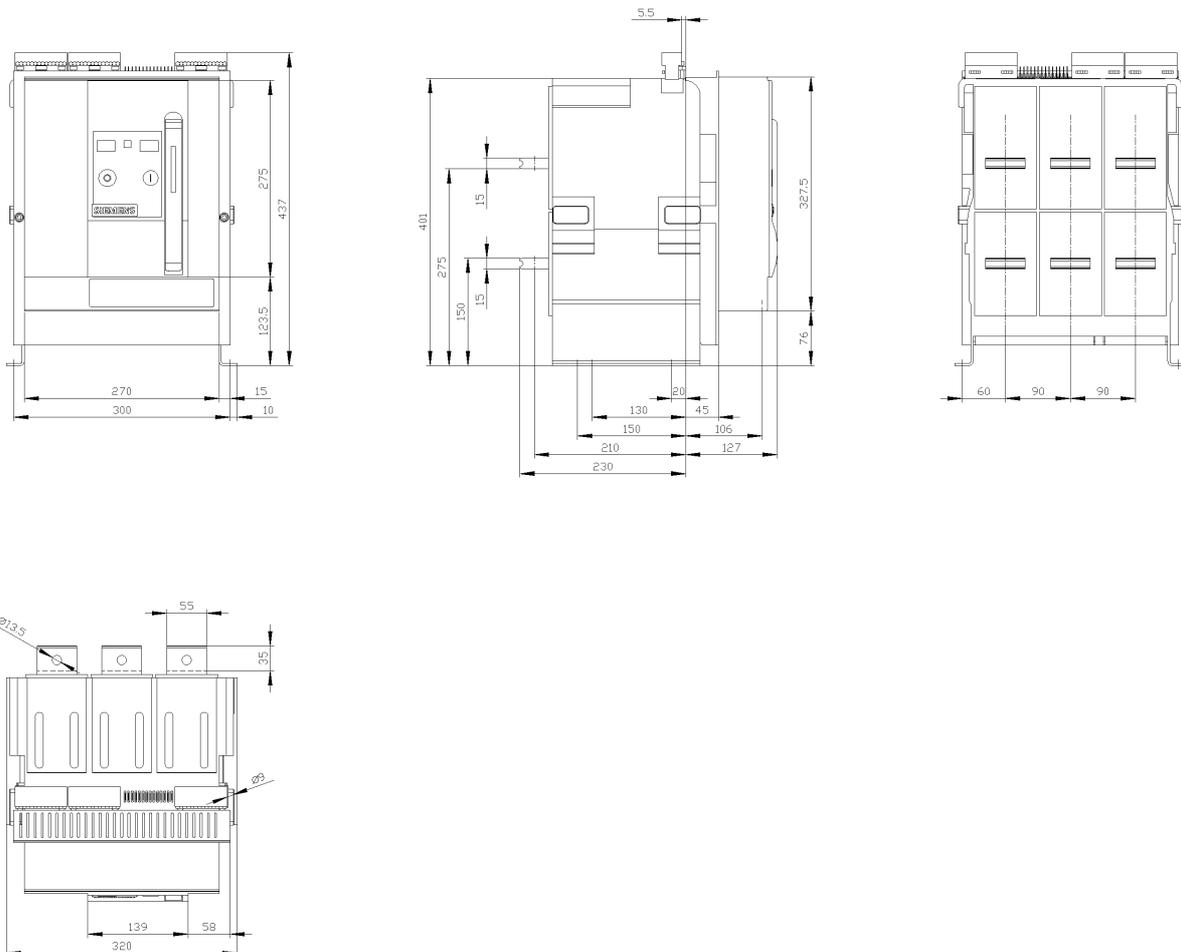
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3WL1116-2AA32-1FA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3WL1116-2AA32-1FA2)

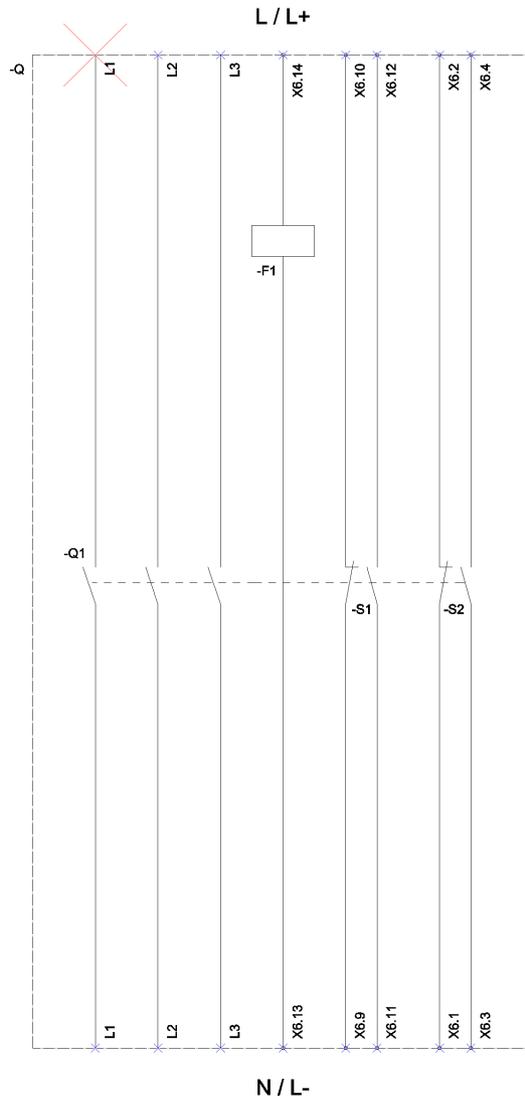
CAX-Online-Generator

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

Tender specifications

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





F1 (1st auxiliary release / Erster Hilfsauslöser);  
 S1 - S8 (Auxiliary switch / Hilfsschalter);

last modified:

1/30/2021 

