

fixed-mounted circuit breaker 3-pole, size I, IEC In=1600A to 690V, AC50/60Hz Icu=55kA at 500V rear connection vertical Overcurrent release ETU 25 LSI protection adjustable 0.4-1 in 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 without 1st auxiliary release With 2nd auxiliary release "R", F3 Undervoltage, instant. 208-240 V AC, 220-250 V DC 2NO+2NC C01= mechanical switching cycle counter C22= Ready indicator K07= Tripped signaling contact, 1 CO not possible with option F02 K10= Remote reset solenoid 24 V DC



Model	
Product brand name	SENTRON
Product designation	ACB
Design of the auxiliary switch	2 NO + 2 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	ETU25B

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	LSI

Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	50 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	32 000 A
• of instantaneous short-circuit trip unit / Full-scale value	32 000 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	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 current-dependent overload release / initial value	640 A
Product details	
Product component	
• Trip indicator	Yes
• Voltage trigger	No
• undervoltage release	Yes
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	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

-20 ... +70 °C

-40 ... +70 °C

Certificates

Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

Q

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	 LRS
 PRS	 RMRS
	Environmental Conformations Manufacturer Declaration

other

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2CB31-4AN2-Z C01+C22+K07+K10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2CB31-4AN2-Z C01+C22+K07+K10>

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

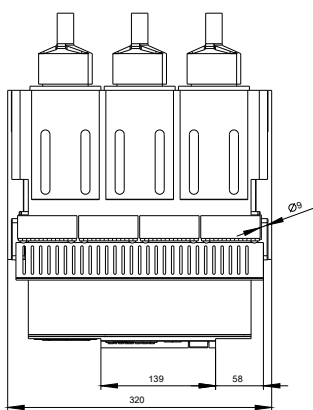
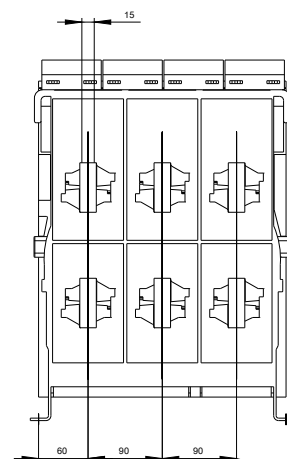
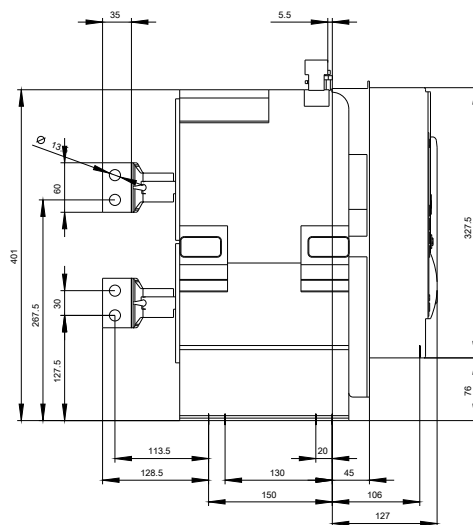
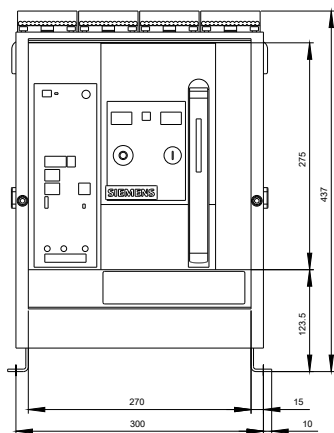
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2CB31-4AN2-Z C01+C22+K07+K10

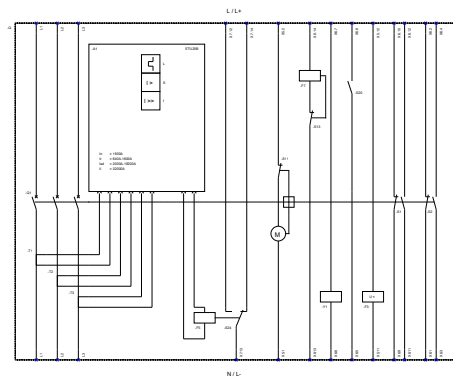
CAX-Online-Generator

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

Tender specifications

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





1. Main switch (1) (Main switch) 2. Fuse (2) (Fuse) 3. Thermal relay (3) (Thermal relay) 4. Stop button (4) (Stop button) 5. Start button (5) (Start button) 6. Contactor (6) (Contactor)

last modified:

06/29/2019