

fixed-mounted circuit breaker 3-pole, size I, IEC In=1250A to 690V, AC50/60Hz Icu=55kA at 500V rear connection vertical Overcurrent release ETU45 LSIN protection adjustable 0.4-1 in with display and cubicle bus Opt.: Comm. /measuring func./ground fault/ ZSS With manual operating mechanism with storage with mechanical request without 1st auxiliary release without 2nd auxiliary release 2NO+2NC



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 operating mechanism with mechanical closing

Type of the driving mechanism / motor drive	No
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	35 W
Electricity	
Operating current / at 45 °C / rated value	1 250 A
Continuous current / rated value	1 250 A
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	1 250 A
• of instantaneous short-circuit trip unit / initial value	1 875 A
• of instantaneous short-circuit trip unit / Full-scale value	15 000 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	1 250 A
• at 50 °C / rated value	1 250 A
• at 55 °C / rated value	1 250 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	500 A
• of the L-trip / with I _{4t} characteristic / Full-scale value	1 250 A
Adjustable pick-up value current / of the current-dependent overload release / initial value	500 A
Product details	
Product component	
• Trip indicator	Yes
• Voltage trigger	No
• undervoltage release	No
Product extension / optional / motor drive	Yes
Product function	
Product function	
• Ground fault protection	No
• Phase failure detection	Yes
Display and operation	
Display version	WITH 4-LINE DISPLAY
Short circuit	
Operational short-circuit current breaking capacity (I _{cs})	
• 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 (I _{cu})	
• 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 ... +55 °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



CCC



VDE

CB

CB



EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)



ABS



Lloyd's Register

LRS



PRS



RMRS

[Environmental Conformations](#)

other

[Manufacturer Declaration](#)

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1112-2FB31-1AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1112-2FB31-1AA2>

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

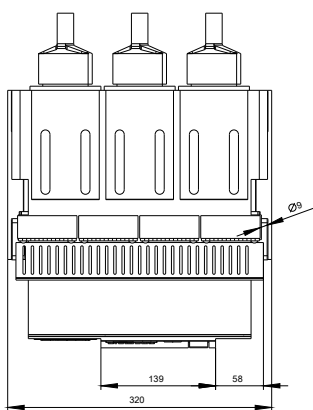
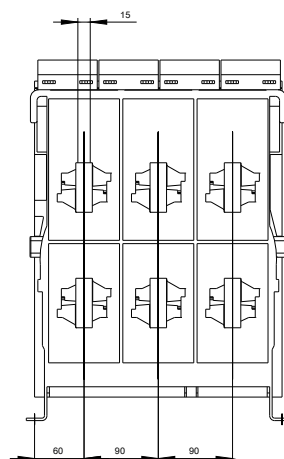
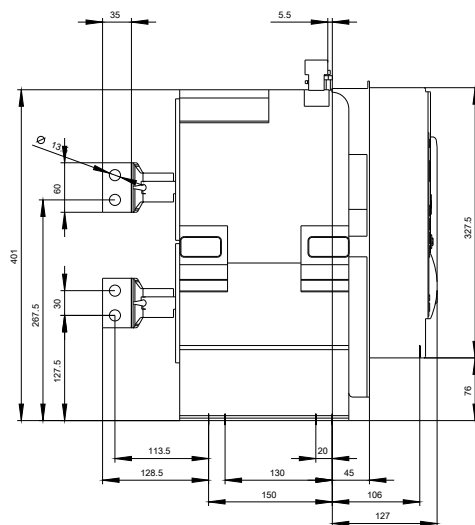
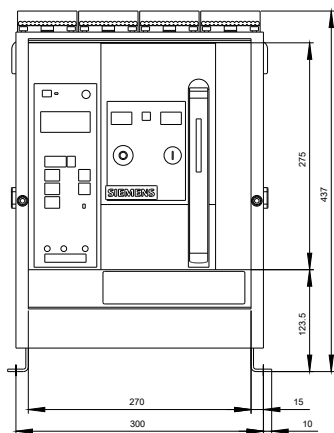
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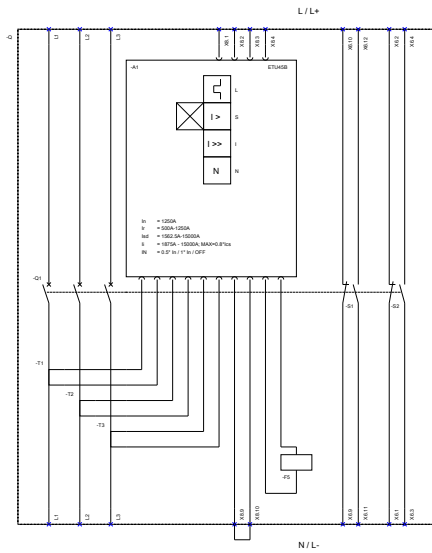
CAX-Online-Generator

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

Tender specifications

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





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