

Draw-out circuit breaker with slide-in module frame 3-pole, Size 1, IEC In=1000 A up to 690 V, 50/60 Hz AC Icu=55 kA at 500 V with connecting flange Overcurrent release ETU 27 LSING protection adjustable 0.4-1 in Ground fault/N protection integrated 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 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	ETU27B
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
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	LSING
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	65 W
Current	
Operating current / at 45 °C / rated value	1 000 A
Continuous current / rated value	1 000 A
Adjustable pick-up value current • of the current-dependent overload release / Full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / Full-scale value	1 000 A 20 000 A 20 000 A
Main circuit	
Operating frequency • 1 / rated value • 2 / rated value	50 Hz 60 Hz
Operating current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 70 °C / rated value	1 000 A 1 000 A 1 000 A 1 000 A 1 000 A 1 000 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	400 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	Yes
• 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	Rear connection flange
Type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
Height	460 mm
Width	320 mm
Depth	429.5 mm
Mounting type	drawer unit
Environmental conditions	
Ambient temperature / during operation	

- minimum -40 °C
- maximum 70 °C

Ambient temperature / during storage

- minimum -40 °C
- maximum 80 °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



CCC

CB

CB



VDE



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)

Shipping Approval



ABS



Lloyd's Register

LRS



PRS



RMRS

[CCS / China Classification Society](#)

other

[Environmental Conformations](#)

[Manufacturer Declaration](#)

[Confirmation](#)

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1110-2DG68-1AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1110-2DG68-1AA2>

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

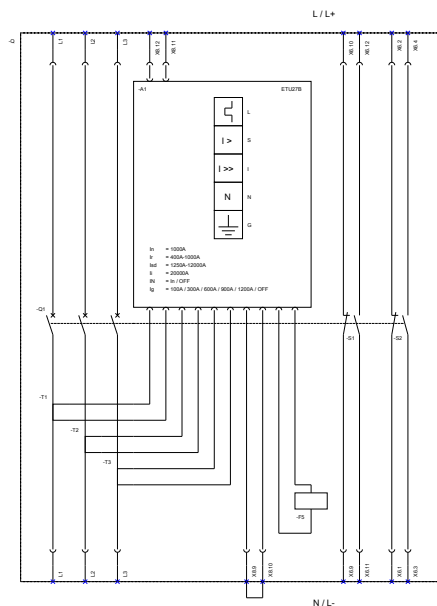
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1110-2DG68-1AA2

CAX-Online-Generator

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

Tender specifications

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



L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlussschutz, kurzzeitverzögert);
 I (Instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutrallebensschutz);
 G (Ground Fault Protection / Erdschussschutz); F.S. (Magnet for trip unit / Auslöseorgan); S1 - S8 (Auxiliary switch / Hilfschalter)

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