

withdrawable circuit breaker with guide frame 3-pole, size i, IEC In=1250A to 690V, AC50/60Hz Icu=55kA at 500V rear connection horizontal Overcurrent release ETU 27 LSING protection adjustable 0.4-1 in Ground fault/N protection integrated Motorized/manual operating mechanism with memory Drive 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 without 2nd auxiliary release 2NO+2NC



Model		
Product brand name		SENTRON
Product designation		ACB
Design of the product		IEC 60947-2
Design of the auxiliary switch		2 NO + 2 NC
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		ETU27B

#### General technical data

Number of poles		3
Size of the circuit-breaker		1
Electrical endurance (switching cycles) / typical		20 000
Usage category		B
circuit-breaker / Design		3WL1
Mechanical service life (switching cycles) / typical		20 000

#### Voltage

Rated insulation voltage $U_i$	V	1 000
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#### Protection class

Protection class IP		IP20
Protective function of the overcurrent release		LSING

#### Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	W	68.3
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#### Electricity

Operating current / at 45 °C / rated value	A	1 250
Continuous current / rated value	A	1 250
Adjustable pick-up value current		
• of the current-dependent overload release / Full-scale value	A	1 250
• of instantaneous short-circuit trip unit / initial value	A	25 000
• of instantaneous short-circuit trip unit / Full-scale value	A	25 000
Short-time current resistance ( $I_{cw}$ )		
• limited to 0.5 s / rated value	kA	55
• limited to 1 s / rated value	kA	42
• limited to 2 s / rated value	kA	29.5
• limited to 3 s / rated value	kA	24

#### Main circuit

Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• at AC / at 50/60 Hz / rated value	V	690
Operating current		

• at 40 °C / rated value	A	1 250
• at 50 °C / rated value	A	1 250
• at 55 °C / rated value	A	1 250
• at 60 °C / rated value	A	1 250
• at 65 °C / rated value	A	1 250
• at 70 °C / rated value	A	1 210

#### 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
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#### Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	A	500
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#### Product details

Product component		
• Trip indicator		Yes
• Voltage trigger		Yes
• undervoltage release		No
Product extension / optional / motor drive		No

#### Product function

Product function		
• Ground fault protection		Yes
• Phase failure detection		Yes

#### 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	kA	55
• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42

#### Connections

Type of electrical connection / for main current circuit		busbar connection
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#### Mechanical Design

Height	mm	460
Width	mm	320
Depth	mm	456
Mounting type		drawer unit

### Environmental conditions

Ambient temperature		
• during operation / minimum	°C	-20
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	70

### Certificates

Reference code		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q
Waste electronic equipment must not be disposed as unsorted municipal waste, e.g. household waste. For disposing the waste electronic equipment it is necessary to observe the current local national/international regulations. 		

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 VDE	 EG-Konf.	 ABS

[Miscellaneous](#)

[Special Test Certificate](#)

### Shipping Approval



### other

[Environmental Conformations](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)

### Further information

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1112-2DG36-5FA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1112-2DG36-5FA2>

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

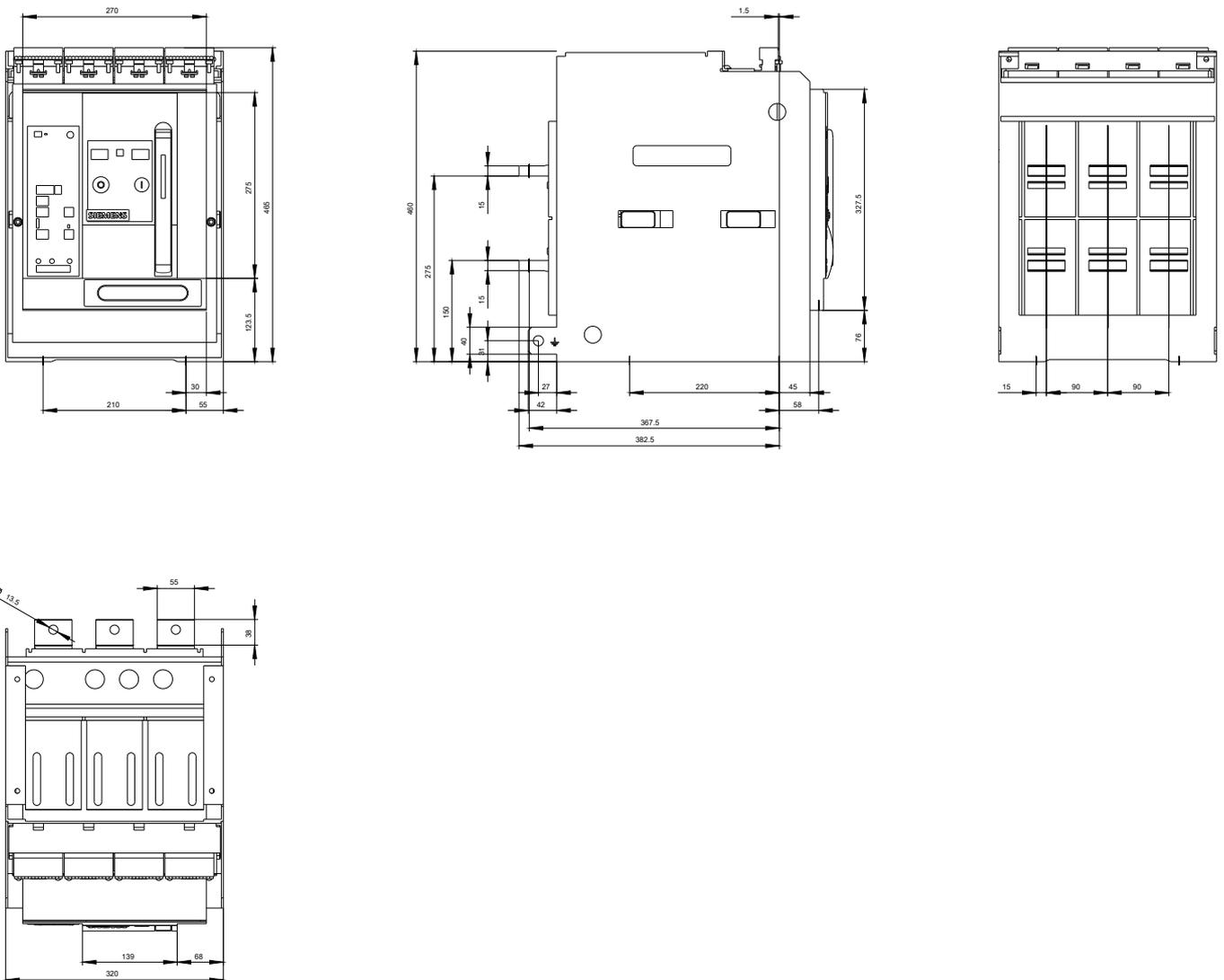
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1112-2DG36-5FA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1112-2DG36-5FA2)

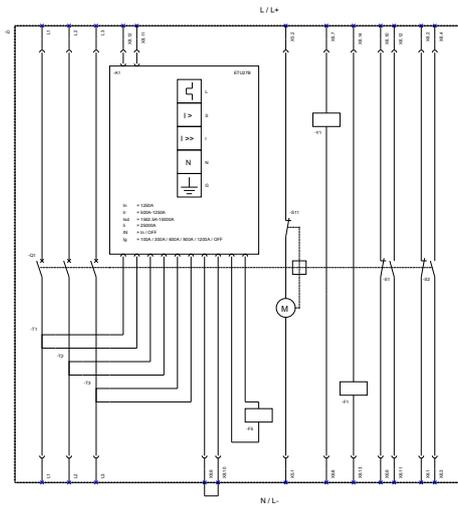
**CAX-Online-Generator**

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

**Tender specifications**

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





S (Closing Time Delay / Überstromschutz) © (Short Time Delay / Kurzschlusschutz, Kurzstromschutz) | (Instantaneous / Kurzschlusschutz, unverteilt)  
 R (Residual Protection / Neutralstromschutz) © (Ground Fault Protection / Erdleitschutz)  
 S1 (Instantaneous Trip / Kurzschlusschutz, 3-Ampere / 3-Weichen) | (Residual Protection / Neutralstromschutz, unverteilt) | (Instantaneous Trip / Kurzschlusschutz, unverteilt)  
 F1 (Delayed Trip / Auslöseverzögerung) | S1-S8 (Auxiliary switch / Hilfskontakt) | Y1 (Closing coil / Einrastabzug)

last modified:

02/01/2019