

withdrawable circuit breaker without guide frame 3-pole, size II, IEC In=1000A to 690V, AC50/60Hz Icu=80kA at 500V rear connection horizontal Overcurrent release ETU45 LSIN protection adjustable 0.4-1 in with display and cubicle bus Opt.: Comm. /measuring func./ground fault/ ZSS Motorized/manual operating mechanism with spring charging motor AC 50/60 Hz 208-240 V or 220-250 V DC Activation AC 50/60 Hz 230 V, 220 V DC With 1st auxiliary release Shunt release "F", F1 50/60 Hz 230 V AC/220 V DC, 100% on-load factor without 2nd auxiliary release 4NO+4NC

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/motorized operating mechanism with mechanical and electrical closing
type of the driving mechanism / motor drive	Yes
design of the overcurrent release	ETU45B
General technical data	
number of poles	3
size of the circuit-breaker	2
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	LSIN
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	31.7 W
• maximum	95 W
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Auxiliary circuit	
number of NC contacts / for auxiliary contacts	4
number of NO contacts / for auxiliary contacts	4
Suitability	
suitability for use	Plant / motor protection
Adjustable parameters	
adjustable current response value current / of the L-trip / with I4t characteristic	
• initial value	400 A
• full-scale value	1 000 A
adjustable current response value current / of the current-dependent overload release / initial value	400 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	Yes

• undervoltage release	No
<b>design of the auxiliary switch</b>	4 NO + 4 NC
product extension / optional / motor drive	No
<b>Product function</b>	
<b>product function</b>	
• grounding protection	No
• phase failure detection	Yes
<b>Display and operation</b>	
<b>display version</b>	WITH 4-LINE DISPLAY
<b>Short circuit</b>	
<b>operating short-circuit current breaking capacity (Ics)</b>	
• at 415 V / rated value	80 kA
• at 500 V / rated value	80 kA
• at 690 V / rated value	75 kA
<b>maximum short-circuit current breaking capacity (Icu)</b>	
• at 415 V / rated value	80 kA
• at 500 V / rated value	80 kA
• at 690 V / rated value	75 kA
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	without guide frame
type of electrical connection / for main current circuit	Blade contacts
<b>Mechanical Design</b>	
<b>height</b>	411.5 mm
<b>width</b>	451 mm
<b>depth</b>	337 mm
<b>fastening method</b>	drawer unit
<b>Environmental conditions</b>	
<b>ambient temperature / during operation</b>	
• minimum	-20 °C
• maximum	55 °C
<b>ambient temperature / during storage</b>	
• minimum	-40 °C
• maximum	70 °C
<b>Further information</b>	

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1210-3FB35-4GA4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1210-3FB35-4GA4>

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

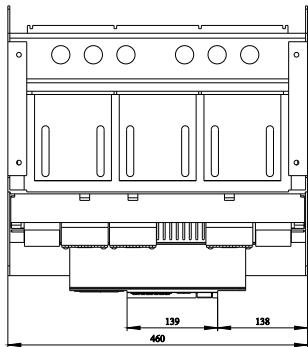
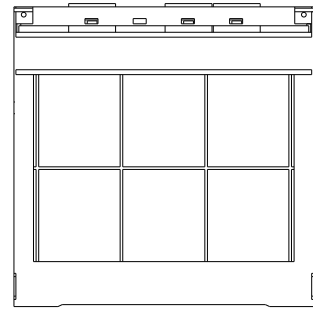
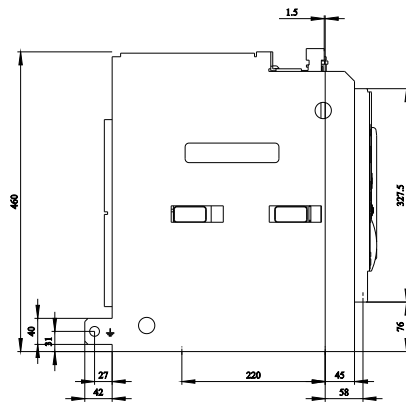
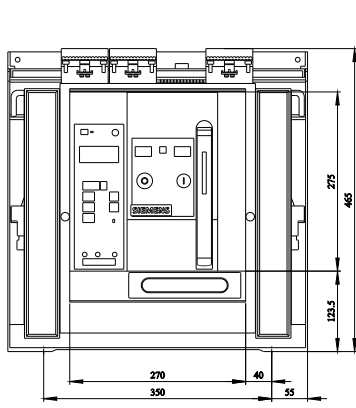
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1210-3FB35-4GA4](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1210-3FB35-4GA4)

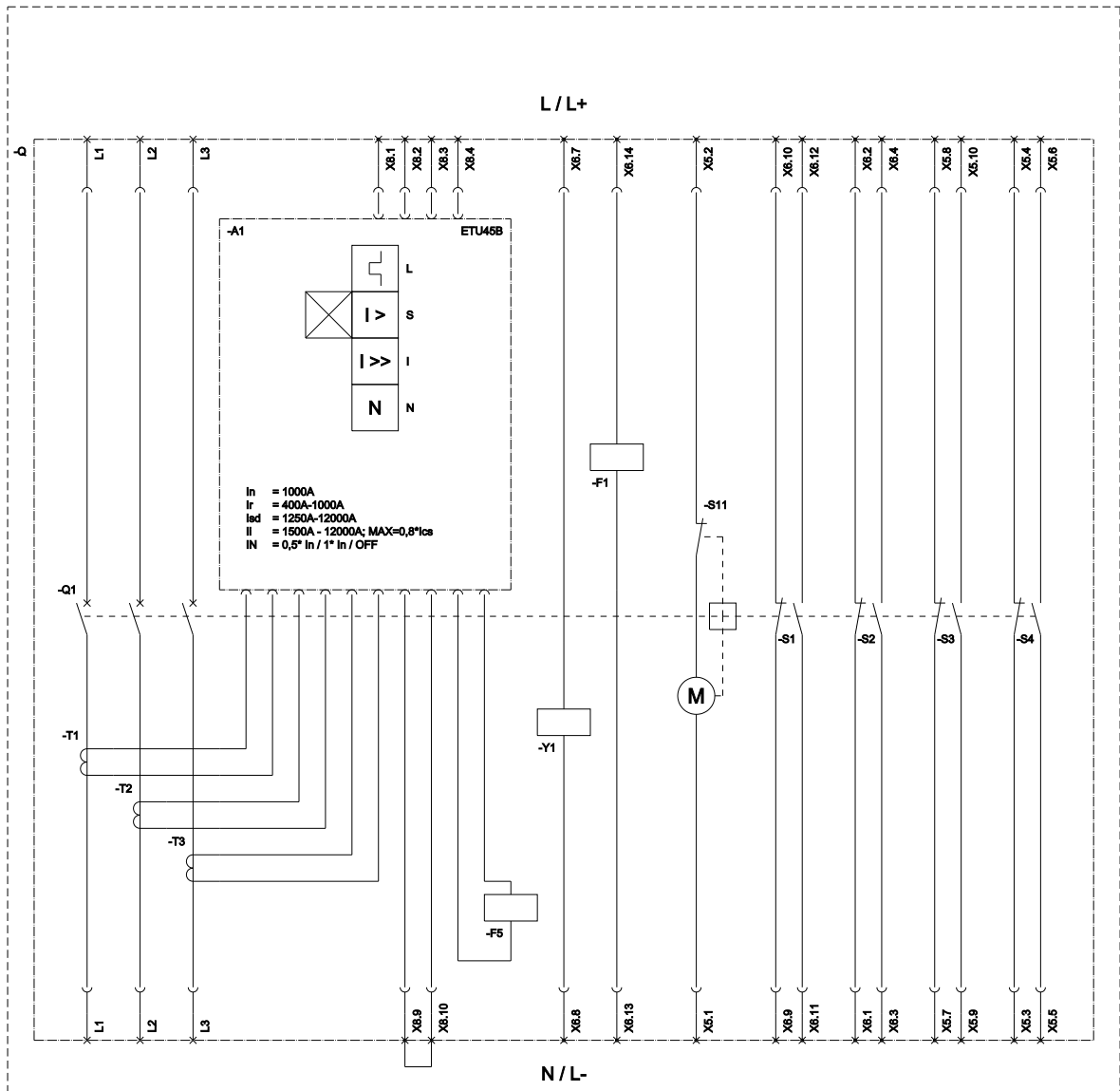
**CAX-Online-Generator**

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

**Tender specifications**

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





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlussschutz, kurzzeitzverzögert); I (Instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutralleiterschutz);  
 S11 (Internal motor shutdown switch, if spring is tensioned / Interner Motorabstellschalter, wenn Feder gespannt); F1 (1st auxiliary release / Erster Hilfsauslöser);  
 F5 (Maglatch for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfschalter); Y1 (Closing coil / Einschaltmagnet);

last modified:

3/6/2020

