

withdrawable circuit breaker with guide frame 3-pole, size I, IEC In=2000A to 690V, AC50/60Hz Icu=55kA at 500V w. connection flange Overcurrent release ETU 25 LSI protection adjustable 0.4-1 in 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	ETU25B
General technical data	
number of poles	3
size of the circuit-breaker	1
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	LSI
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	146.7 W
• maximum	440 W
Current	
operational current	
• at 40 °C / rated value	2 000 A
• at 45 °C / rated value	2 000 A
• at 50 °C / rated value	2 000 A
• at 55 °C / rated value	2 000 A
• at 60 °C / rated value	1 930 A
• at 65 °C / rated value	1 930 A
• at 70 °C / rated value	1 780 A
continuous current / rated value / maximum	2 000 A
continuous current / rated value	2 000 A
adjustable current response value current	
• of the current-dependent overload release / full-scale value	2 000 A
• of instantaneous short-circuit trip unit / minimum	40 000 A
• of instantaneous short-circuit trip unit / maximum	40 000 A
Main circuit	
operating frequency	

• 1 / rated value • 2 / rated value		50 Hz		
		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 current-dependent overload release / initial value		800 A		
Product details				
product component • trip indicator • voltage trigger • undervoltage release		Yes Yes No		
design of the auxiliary switch		4 NO + 4 NC		
product extension / optional / motor drive		No		
Product function				
product function • grounding protection • phase failure detection		No Yes		
Display and operation				
display version		without display		
Short circuit				
breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value		55 kA 55 kA 42 kA		
breaking capacity maximum short-circuit current (Icu) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value		55 kA 55 kA 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		
fastening method		drawer unit		
Environmental conditions				
ambient temperature / during operation • minimum • maximum		-20 °C 70 °C		
ambient temperature / during storage • minimum • maximum		-40 °C 70 °C		
General Product Approval		EMC	Declaration of Conformity	Test Certificates



[UK Declaration of Conformity](#)

[Miscellaneous](#)

Test Certificates

Marine / Shipping

Marine / Shipping

other

Dangerous Good



[Environmental Confirmations](#)

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1120-2CB38-4GA4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1120-2CB38-4GA4>

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

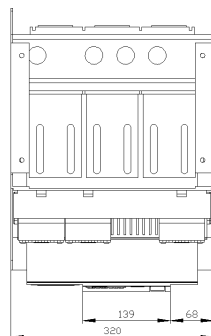
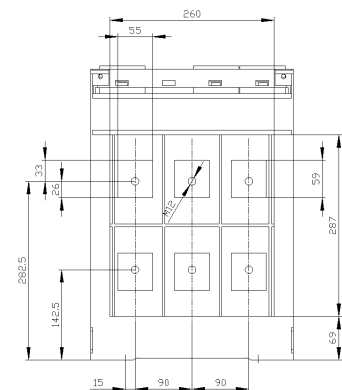
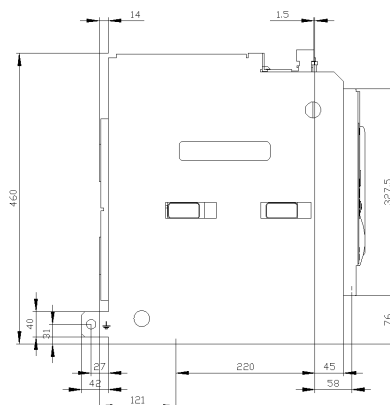
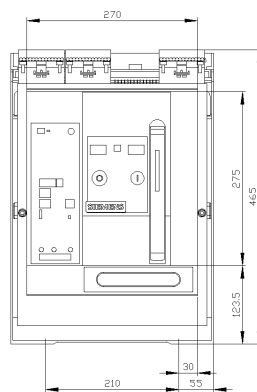
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1120-2CB38-4GA4

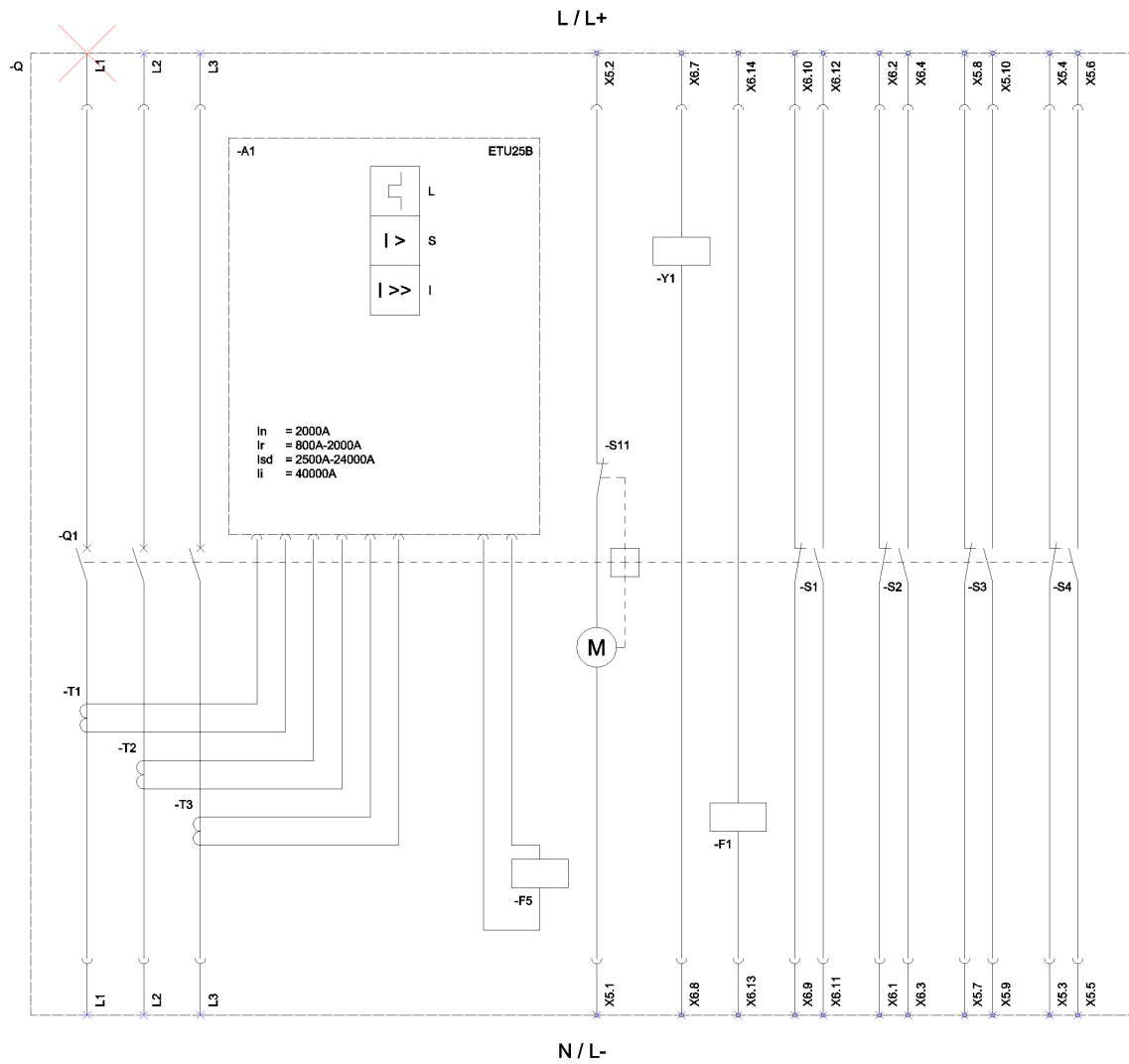
CAX-Online-Generator

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

Tender specifications

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





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, kurzzeitverzögert); I (Instantaneous / Kurzschlusschutz, unverzögert);
 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 / Hilfsschalter); Y1 (Closing coil / Einschaltmagnet);

last modified:

3/20/2020

