









withdrawable circuit breaker without guide frame 4-pole, size II, IEC In=2000A to 690V, AC50/60Hz Icu=66kA 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 spring charging motor 24-30 V DC Activation 24 V DC With 1st auxiliary release Shunt release "F", F1 24 V DC; 100% ON period 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	ETU27B
General technical data	
number of poles	4
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	LSING
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	106.7 W
• maximum	320 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 current-dependent overload release / initial value	800 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	Yes
• undervoltage release	No
design of the auxiliary switch	4 NO + 4 NC
product extension / optional / motor drive	No
Product function	

product function					
• grounding protection		Yes			
• phase failure detection		Yes			
Display and operation					
display version		without display			
Short circuit					
operating short-circuit current breaking capacity (Ics)					
• at 415 V / rated value		66 kA			
• at 500 V / rated value		66 kA			
• at 690 V / rated value		50 kA			
maximum short-circuit current breaking capacity (Icu)					
• at 415 V / rated value		66 kA			
• at 500 V / rated value		66 kA			
• at 690 V / rated value		50 kA			
Connections					
arrangement of electrical connectors / for main current circuit		without guide frame			
type of electrical connection / for main current circuit		Blade contacts			
Mechanical Design					
height		411.5 mm			
width		555 mm			
depth		337 mm			
fastening method		drawer unit			
Environmental conditions					
ambient temperature / during operation					
• minimum		-20 °C			
• maximum		70 °C			
ambient temperature / during storage					
• minimum		-40 °C			
• maximum		70 °C			
General Product Approval		EMC	Declaration of Conformity		
	Confirmation				
Test Certificates		Marine / Shipping			
Special Test Certificate	Type Test Certificates/Test Report	Miscellaneous			
Marine / Shipping		other	Dangerous Good		
	CCS / China Classification Society	Miscellaneous	Confirmation	Miscellaneous	Transport Information
Environment					
Environmental Confirmations					
Further information					
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=3WL1220-2DG45-6BA4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-2DG45-6BA4>

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

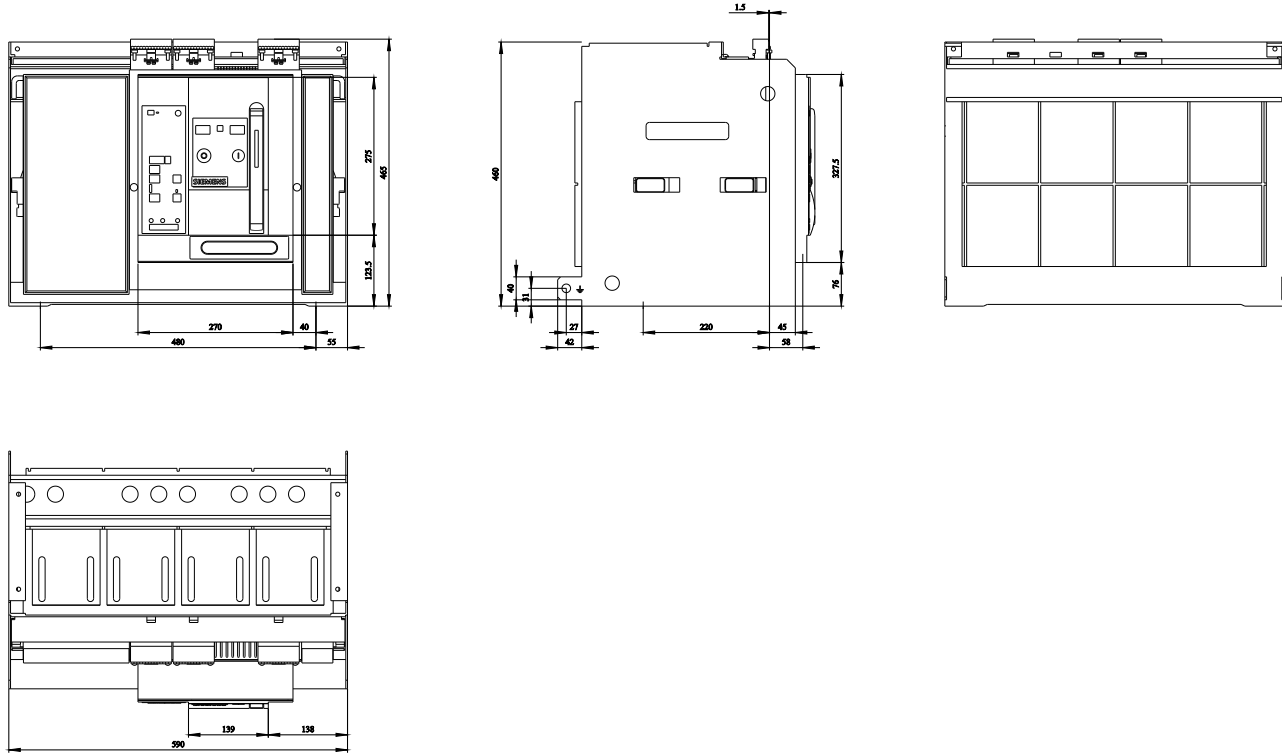
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-2DG45-6BA4

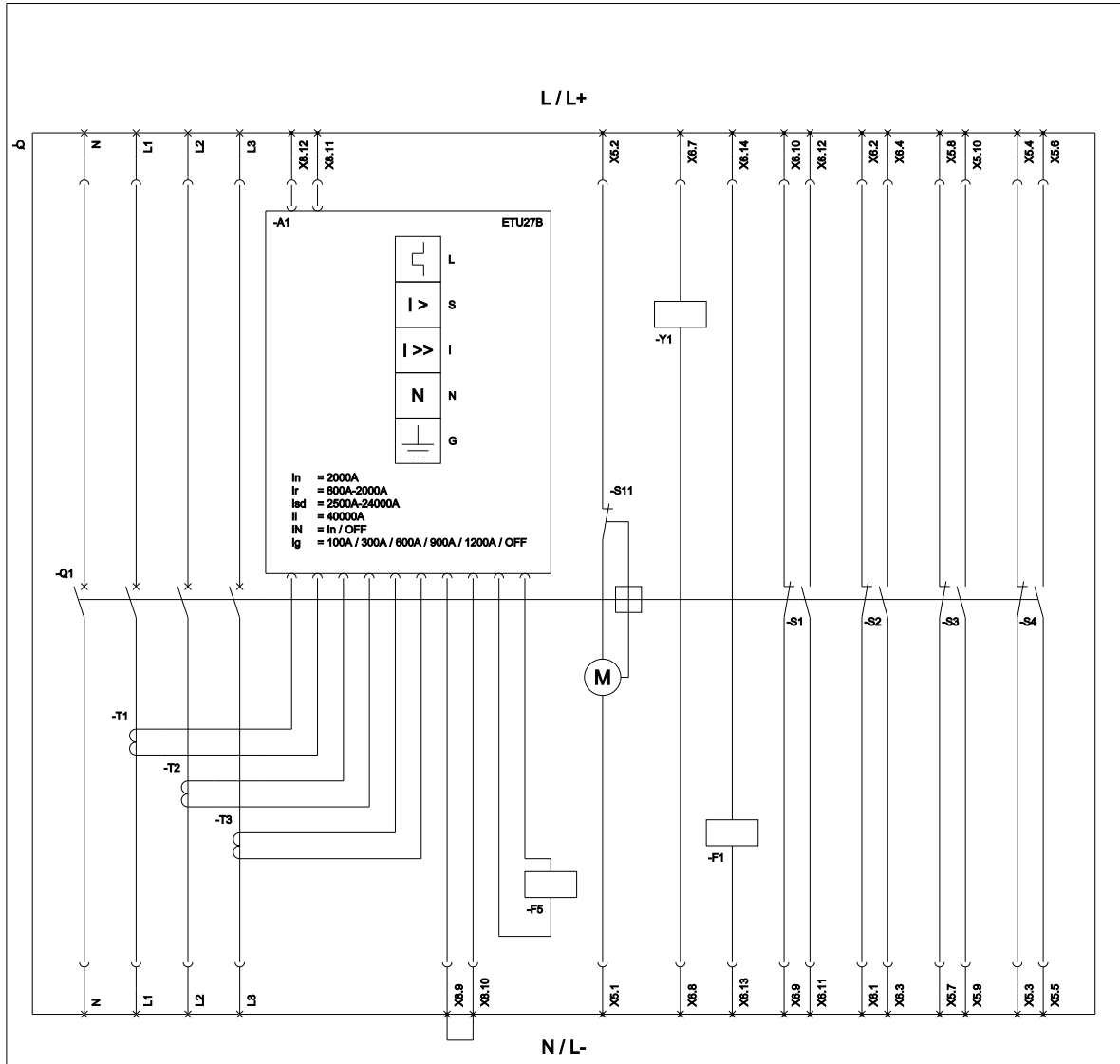
CAX-Online-Generator

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

Tender specifications

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





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, kurzzeitverzögerter); I (Instantaneous / Kurzschlusschutz, unverzögerter); N (Neutral Protection / Neutralleiterschutz);
 G (Ground Fault Protection / Erdschlusschutz); S11 (Internal motor shutdown switch, if spring is tensioned / Interner Motorabstellschalter, wenn Feder gespannt); F1 (1st auxiliary release / Erster Hilfskontakt);
 F5 (Maglatch for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfskontakt); Y1 (Closing coil / Einschalmagnet);

last modified:

5/3/2023

