

withdraw. non-aut. circuit-b. without guide frame 4-pole, size II, IEC
 $I_n=2000\text{A}$ to 690V, AC50/60Hz $I_{cu}=80\text{kA}$ at 500V rear connection
 horizontal without overcurrent release 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 without 1st auxiliary release
 With 2nd auxiliary release "RC", F4 Undervoltage, Delay 0.2-3.2s 208-240
 V AC, 220-250 V DC, 100% ED 2NO+2NC

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	without
General technical data	
number of poles	4
size of the circuit-breaker	2
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage U_i	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	without
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	106.7 W
• maximum	320 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	2 000 A
• at 65 °C / rated value	2 000 A
• at 70 °C / rated value	2 000 A
continuous current / rated value / maximum	2 000 A
continuous current / rated value	2 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Auxiliary circuit	
number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2

Suitability		
suitability for use		Contact unit without release
Product details		
product component		
• trip indicator		No
• voltage trigger		No
• undervoltage release		Yes
design of the auxiliary switch		2 NO + 2 NC
product extension / optional / motor drive		No
Product function		
product function		
• grounding protection		No
Display and operation		
display version		without display
Short circuit		
breaking capacity operating short-circuit current (Ics)		
• at 415 V / rated value		80 kA
• at 500 V / rated value		80 kA
• at 690 V / rated value		75 kA
breaking capacity maximum short-circuit current (Icu)		
• at 415 V / rated value		80 kA
• at 500 V / rated value		80 kA
• at 690 V / rated value		75 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		-25 °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

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping

other



other

Dangerous Good

Miscellaneous

Transport Information

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3AA45-4AS2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3AA45-4AS2>

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

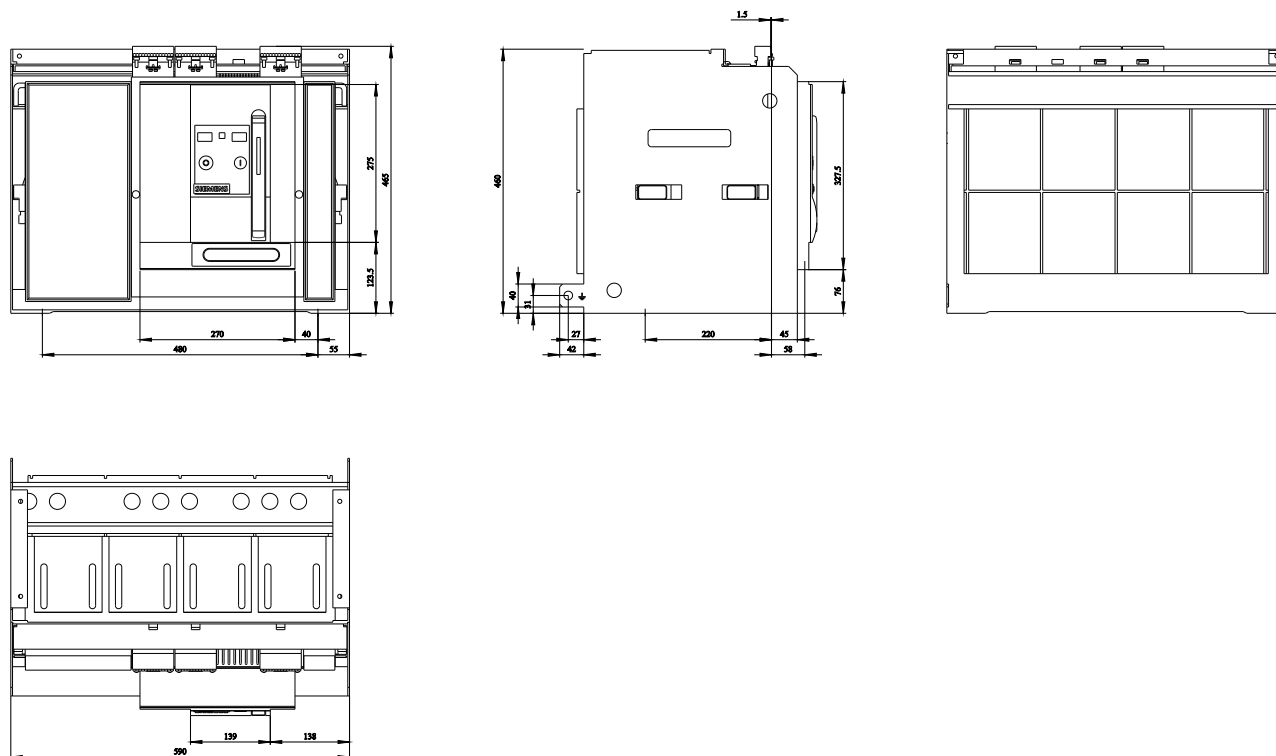
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3AA45-4AS2

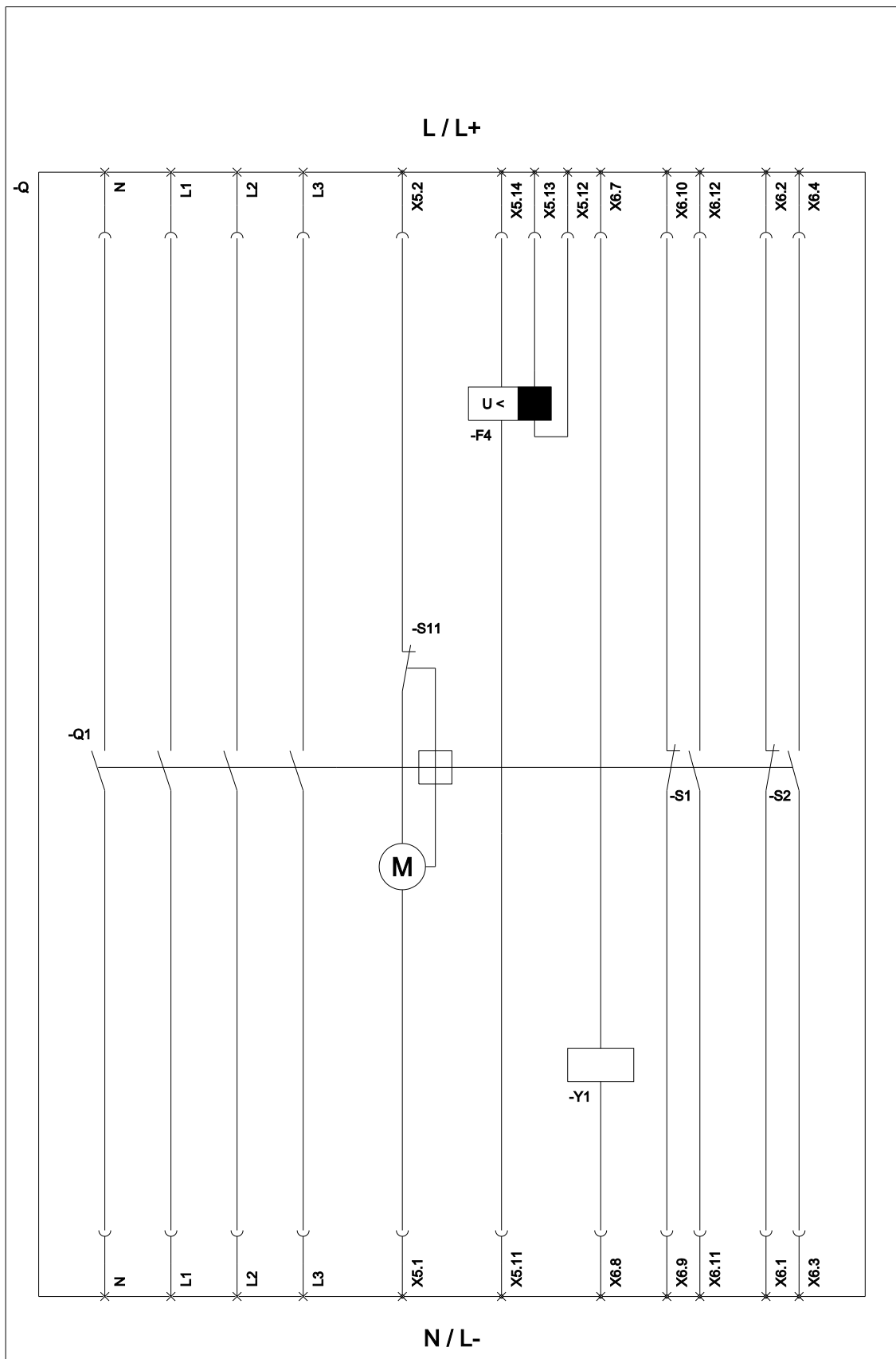
CAX-Online-Generator

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

Tender specifications

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





S11 (Internal motor shutdown switch, if spring is tensioned / Interner Motorabstellschalter, wenn Feder gespannt);
 F4 (Undervoltage release time delayed / Unterspannungsauslöser verzögerbar); S1 - S8 (Auxiliary switch / Hilfsschalter);
 Y1 (Closing coil / Einschaltmagnet);

last modified:

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