

fixed-mounted circuit breaker 4-pole, size I, IEC In=2000A to 690V,  
AC50/60Hz Icu=66kA at 500V rear connection horizontal

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 operating mechanism with mechanical closing
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU25B
General technical data	
number of poles	4
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	80 W
• maximum	240 W
Current	
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 / initial value	40 000 A
• of instantaneous short-circuit trip unit / full-scale value	40 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
operational current	
• at 40 °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
Auxiliary circuit	

number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2
<b>Suitability</b>	
suitability for use	Plant / motor protection
<b>Adjustable parameters</b>	
adjustable current response value current / of the current-dependent overload release / initial value	800 A
<b>Product details</b>	
product component	
• trip indicator	Yes
• voltage trigger	No
• undervoltage release	No
design of the auxiliary switch	2 NO + 2 NC
product extension / optional / motor drive	Yes
<b>Product function</b>	
product function	
• grounding protection	No
• phase failure detection	Yes
<b>Display and operation</b>	
display version	without display
<b>Short circuit</b>	
breaking capacity operating short-circuit current (Ics)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
breaking capacity maximum short-circuit current (Icu)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Main connection rear side horizontal
type of electrical connection / for main current circuit	busbar connection
<b>Mechanical Design</b>	
height	439.5 mm
width	410 mm
depth	337 mm
fastening method	fixed mounting
<b>Environmental conditions</b>	
ambient temperature / during operation	
• minimum	-20 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C
<b>Certificates</b>	
reference code	
• acc. to DIN EN 61346-2	Q
• acc. to IEC 81346-2	Q

#### Further information

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1120-3CB42-1AA2>

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

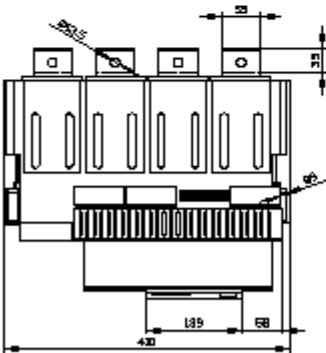
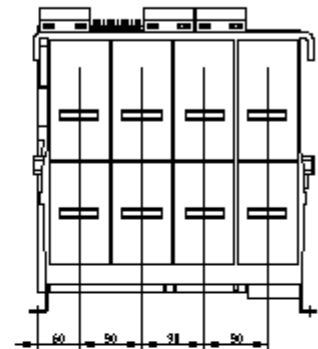
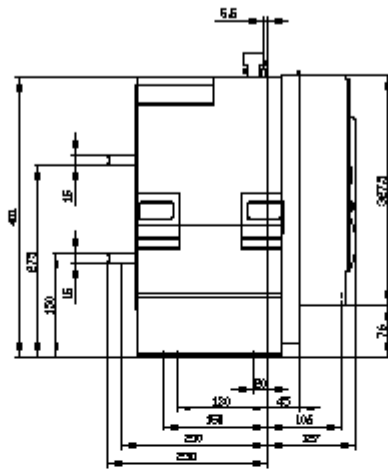
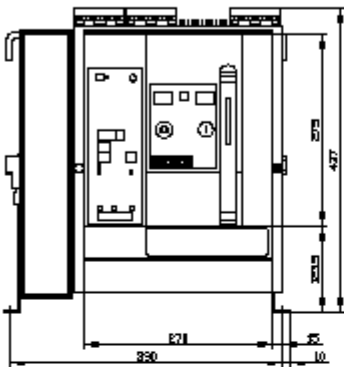
<https://support.industry.siemens.com/cs/ww/en/ps/3WL1120-3CB42-1AA2>

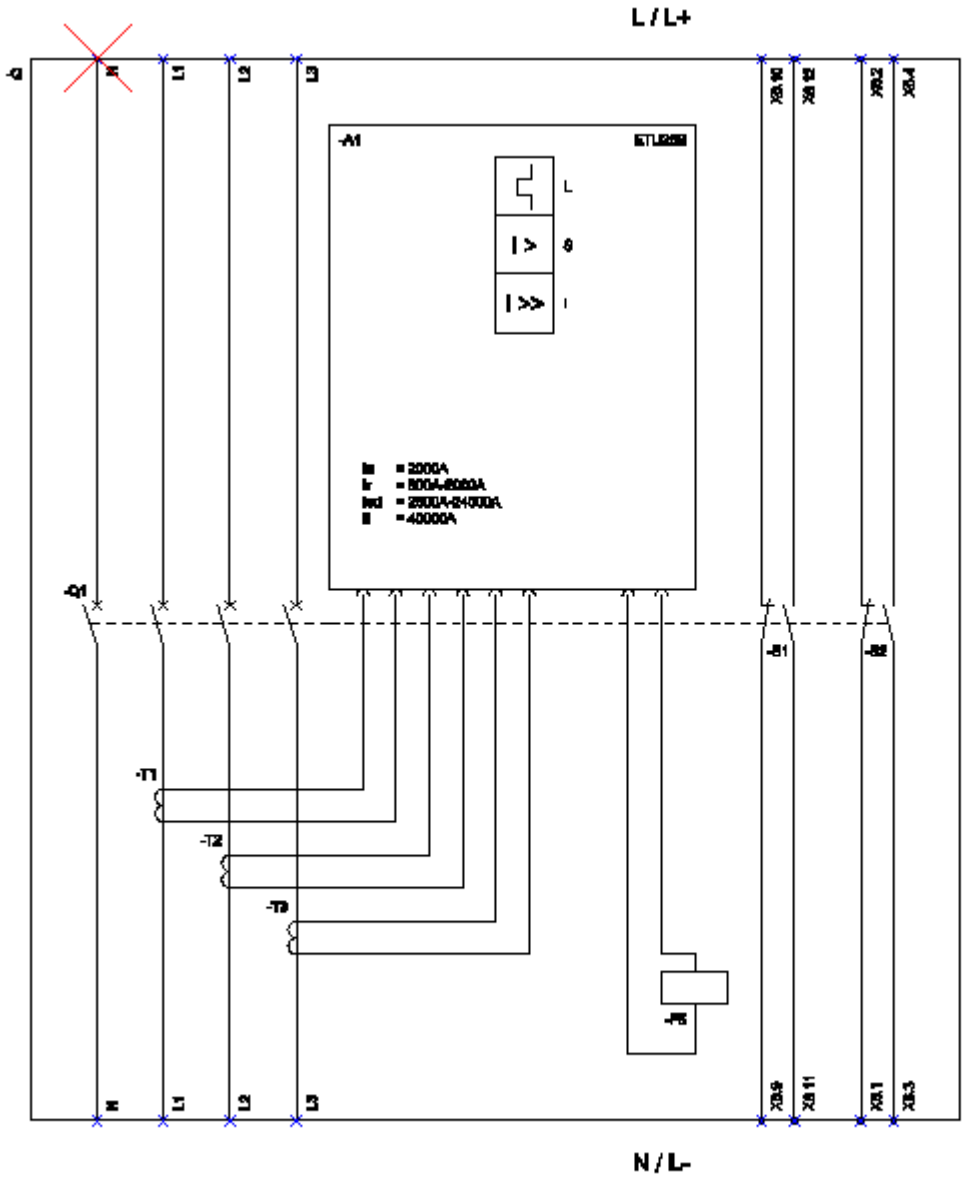
##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1120-3CB42-1AA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1120-3CB42-1AA2)

##### Tender specifications

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





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, Inzonenabschaltung); I (Instantaneous / Kurzschlusschutz, unversögert); M (Magnetlatch for trip unit / Auslösemagnet); B1 - B4 (Auxiliary switch / Hilfschalter);

last modified:

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