

Non-automatic circuit breaker Fixed-mounted version, IEC 60947-2, frame size 1, 3-poles,  $I_n=2000\text{A}$  up to 690V AC 50/60Hz, breaking capacity S  $I_{cc}=66/50\text{kA}$  at 500/690V, without electr. trip unit ETU, rear connection horizontal, without Com & metering function Manual operating mechanism with mechanical closing, without Spring charging motor, Ready-to-close signal. switch, Auxiliary switches 2NO+2NC, without Closing coil (CC), manual operating mechanism with mechanical closing, without Remote trip alarm reset coil (RR), without 2nd shunt trip, without 1st Shunt trip

Model	
product brand name	SENTRON
product designation	3WA air circuit breaker
suitability for use	AC non-automatic circuit breaker
size of the circuit-breaker	I
number of poles	3
position / of neutral conductor	no internal N-conductor
fastening method	fixed-mounted circuit breakers
design of the product	AC application
type of the driving mechanism	manual operating mechanism with mechanical or electrical closing
Weight	45.769 kg
Net Weight	30.769 kg
General technical data	
insulation voltage / rated value	1000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
power loss [W] / maximum	240 W
Current	
continuous current / rated value / maximum	2000 A
continuous current / rated value	2000 A
operational current	
• at 40 °C / rated value	2000 A
• at 45 °C / rated value	2000 A
• at 50 °C / rated value	2000 A
• at 55 °C / rated value	2000 A
• at 60 °C / rated value	2000 A
• at 65 °C / rated value	2000 A
• at 70 °C / rated value	2000 A
Switching capacity and short-time withstand current, according to IEC 60947-2	
switching capacity class of the circuit breaker	S
conditional short-circuit current ( $I_{cc}$ ) / for non-automatic air circuit breakers	
• at AC / at 500 V / rated value	66 kA
• at AC / at 690 V / rated value	50 kA
Basic protection functions	
<b>L: Overload protection N-conductor</b>	
<b>S: delayed short-circuit protection ST</b>	
<b>S: delayed short-circuit protection ST, settings values I0t</b>	
<b>S: delayed short-circuit protection ST, settings values I2t</b>	
<b>G: ground fault GF</b>	
Measuring functions	

measurement function	
• current measurement	Yes
<b>Communication</b>	
communication function	No
<b>Service Life</b>	
mechanical service life (operating cycles)	
• without support / typical	15000
• with support / typical	30000
electrical endurance (operating cycles)	
• at 690 V / without support / typical	10000
• at 690 V / with support / typical	30000
<b>Dimensions</b>	
height	437 mm
width	320 mm
depth	357 mm
<b>Main connection</b>	
arrangement of electrical connectors / for main current circuit	main connection on the rear, horizontal
<b>Auxiliary circuit</b>	
design of the auxiliary switch	2 NO + 2 NC
number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2
number of CO contacts / for auxiliary contacts	0
<b>Internal accessories</b>	
product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	No
• motor drive	No
<b>Environmental conditions</b>	
protection class IP / on the front	IP20
ambient temperature / during operation	
• minimum	-40 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
<b>Certificates</b>	
reference code	
• according to IEC 81346-2	Q

**General Product Approval**



[Confirmation](#)



**General Product Approval**

**EMV**

**Test Certificates**

**Marine / Shipping**

[KC](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificates](#)



**Marine / Shipping**

**other**



[Confirmation](#)

other	Railway	Environment
<a href="#">Miscellaneous</a>	<a href="#">Confirmation</a>	<a href="#">Special Test Certificate</a>  <a href="#">Environmental Confirmations</a>

#### 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=3WA1120-3AA02-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1120-3AA02-0AA0>

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

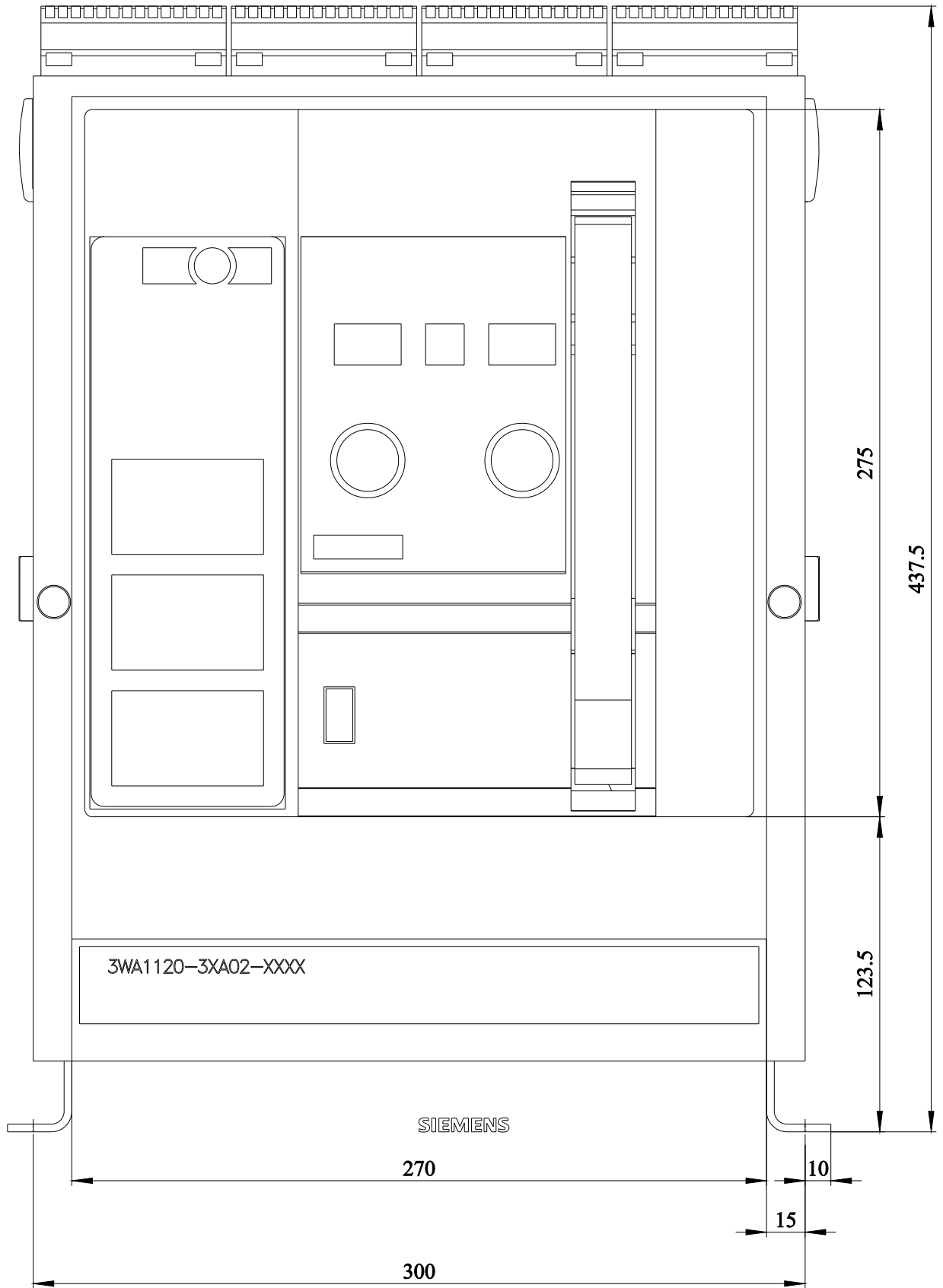
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1120-3AA02-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1120-3AA02-0AA0)

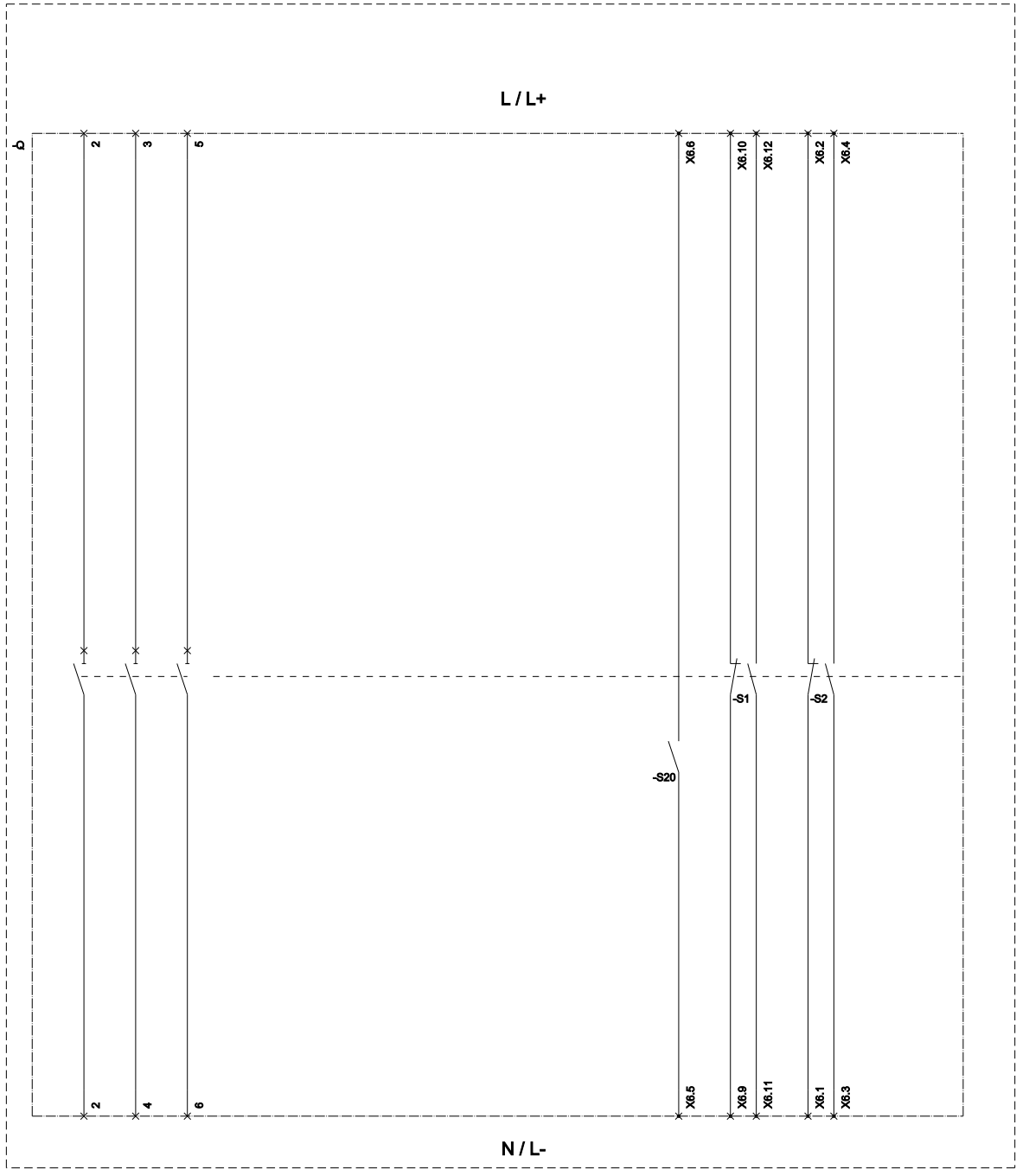
**CAX-Online-Generator**

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

**Information- and Downloadcenter (catalogues, leaflets,...)**

<http://www.siemens.com/energy-automation>





S1-S8 (AUX: Auxiliary switch / Hilfschalter); S20 (RTC: Ready to close signalling switch / Einwahlbereitschaftsmeldesalter);

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