













Non-automatic circuit breaker withdrawable version, with guide frame, IEC 60947-2, frame size 1, 3-poles,  $I_n=1600\text{A}$  up to 690V AC 50/60Hz, breaking capacity N  $I_{cc}=55/42\text{kA}$  at 500/690V, without electr. trip unit ETU, rear connection horizontal, guide frame with shutter and w/o position signalling switch, 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
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	withdrawable circuit breaker
design of the product	AC application
type of the driving mechanism	manual operating mechanism with mechanical or electrical closing
Weight	74.296 kg
Net Weight	59.296 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	310 W
Current	
continuous current / rated value / maximum	1600 A
continuous current / rated value	1600 A
operational current	
• at 40 °C / rated value	1600 A
• at 45 °C / rated value	1600 A
• at 50 °C / rated value	1600 A
• at 55 °C / rated value	1600 A
• at 60 °C / rated value	1600 A
• at 70 °C / rated value	1490 A
Switching capacity and short-time withstand current, according to IEC 60947-2	
switching capacity class of the circuit breaker	N
conditional short-circuit current ( $I_{cc}$ ) / for non-automatic air circuit breakers	
• at AC / at 500 V / rated value	55 kA
• at AC / at 690 V / rated value	42 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

Communication					
communication function	No				
Service Life					
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				
Dimensions					
height	468 mm				
width	320 mm				
depth	471 mm				
Main connection					
arrangement of electrical connectors / for main current circuit	main connection on the rear, horizontal				
Auxiliary circuit					
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				
Internal accessories					
product component					
• undervoltage release	No				
• voltage trigger	No				
• trip indicator	No				
• motor drive	No				
Environmental conditions					
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				
Certificates					
reference code					
• according to IEC 81346-2	Q				
General Product Approval					
EMV					
     					
Radio Equipment Type Approval Certificate			Test Certificates		
<a href="#">Miscellaneous</a>			<a href="#">Miscellaneous</a>		<a href="#">FCC</a>
			<a href="#">Miscellaneous</a>		<a href="#">Special Test Certificate</a>
Maritime application					other
					<a href="#">Manufacturer Declaration</a>
other	Dangerous goods	Environment			

[Confirmation](#)

[Transport Information](#)



#### 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=3WA1116-2AA32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1116-2AA32-0AA0>

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

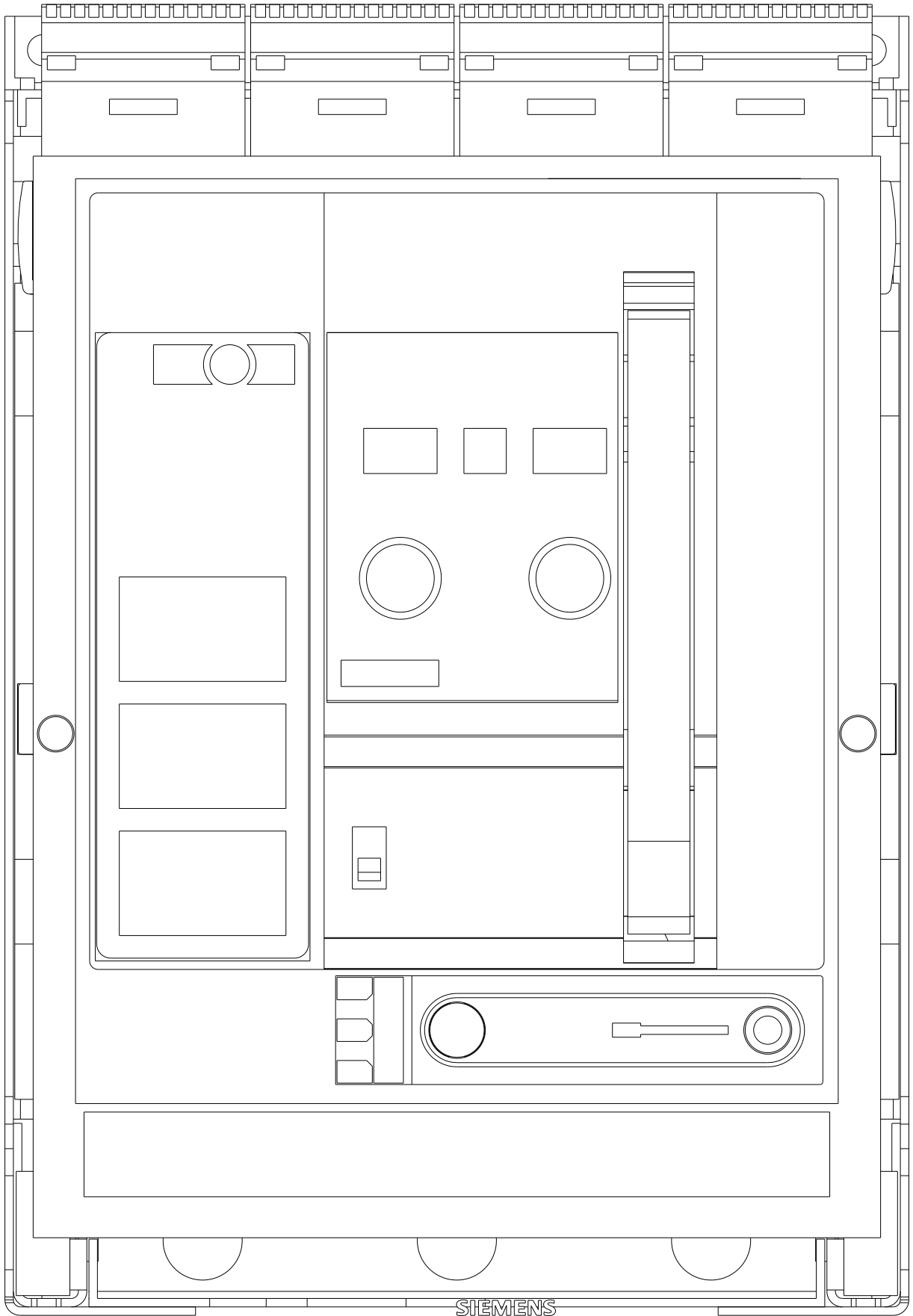
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1116-2AA32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1116-2AA32-0AA0)

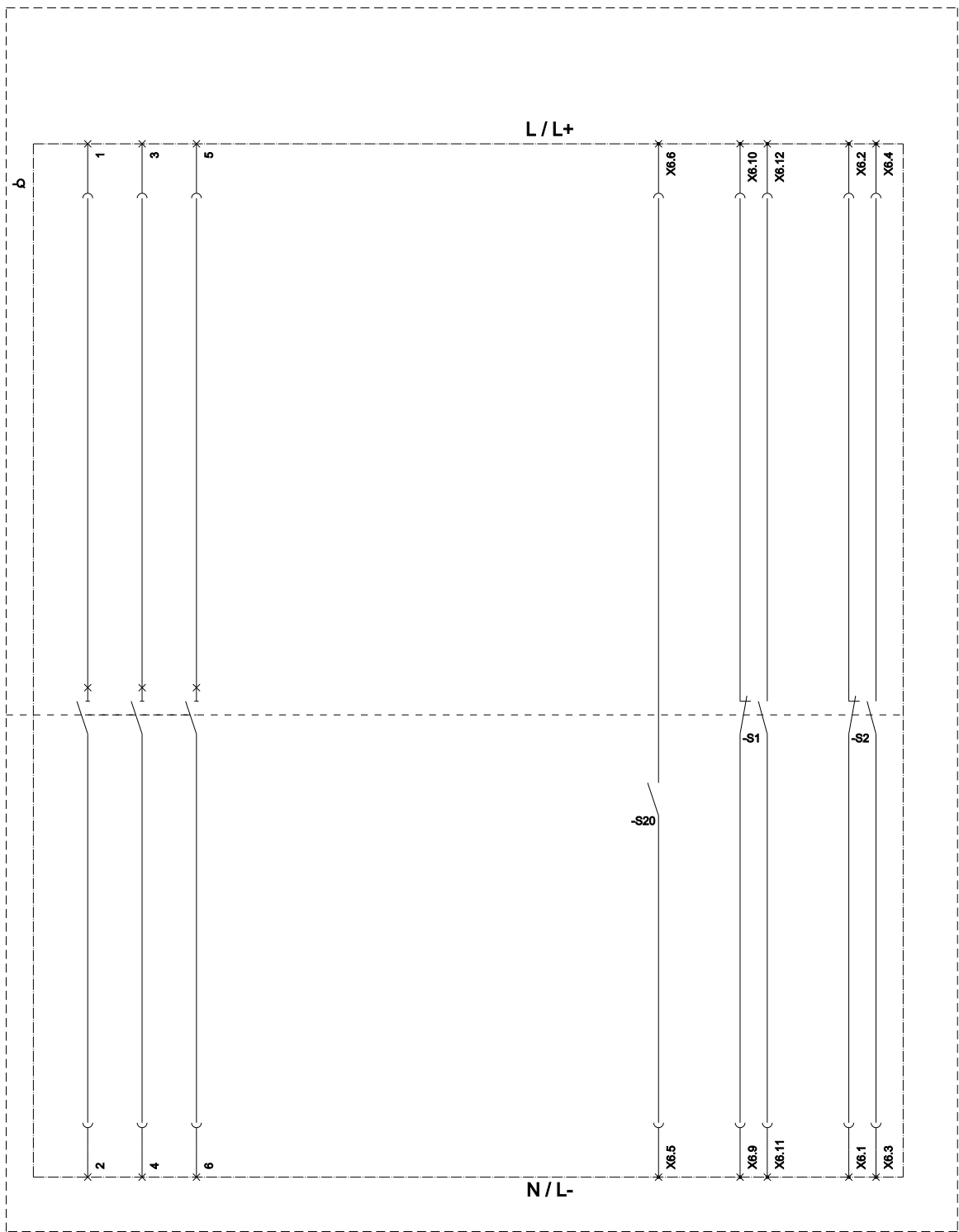
**CAX-Online-Generator**

<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 / Einschaltbereitschaftsmeldesalter);  
 PSS: position signaling switch module / Positionsmeldesaltermodul;

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