












AC non-automatic air circuit breaker 3WA, withdrawable version, with guide frame, IEC 60947-2, size 1, 4-pole, N pole on right, $I_n=1600$ A up to 690 V AC 50/60 Hz, breaking capacity N, $I_{cc}=55/42$ kA at 500/690 V, without electronic trip unit ETU, connection at rear horizontal guide frame with shutter, without position signaling 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
product designation	Non-automatic circuit breaker
suitability for use	AC non-automatic circuit breaker
size of the circuit-breaker	I
number of poles	4
position / of neutral conductor	neutral right
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	85.397 kg
Net Weight	72.397 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	
L: Overload protection N-conductor	
S: delayed short-circuit protection ST	
S: delayed short-circuit protection ST, settings values I0t	
S: delayed short-circuit protection ST, settings values I2t	
G: ground fault GF	
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	410 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				
Approvals / Certificates					
General Product Approval	EMV				
 CCC	 EG-Konf.	 UKCA	 VDE	 EAC	 RCM
Radio Equipment Type Approval Certificate			Test Certificates		
Miscellaneous  UL			Miscellaneous FCC Special Test Certificate Miscellaneous		
Maritime application			other		
 DNV	 LRS	 PRS	Manufacturer Declaration	Confirmation	 产品合格 QC PASS
Dangerous goods	Environment				



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1116-2AA52-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1116-2AA52-0AA0>

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

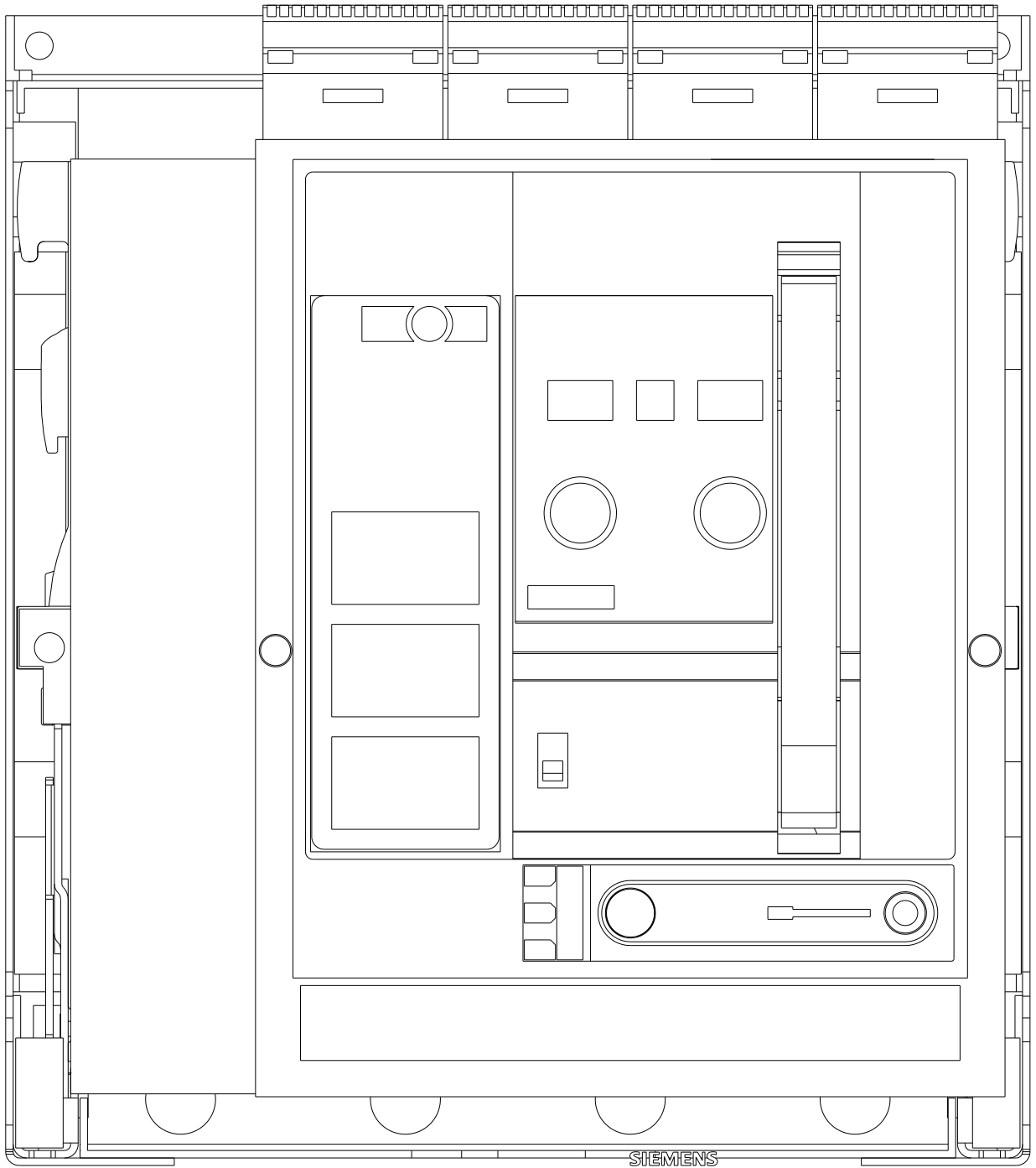
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1116-2AA52-0AA0

CAX-Online-Generator

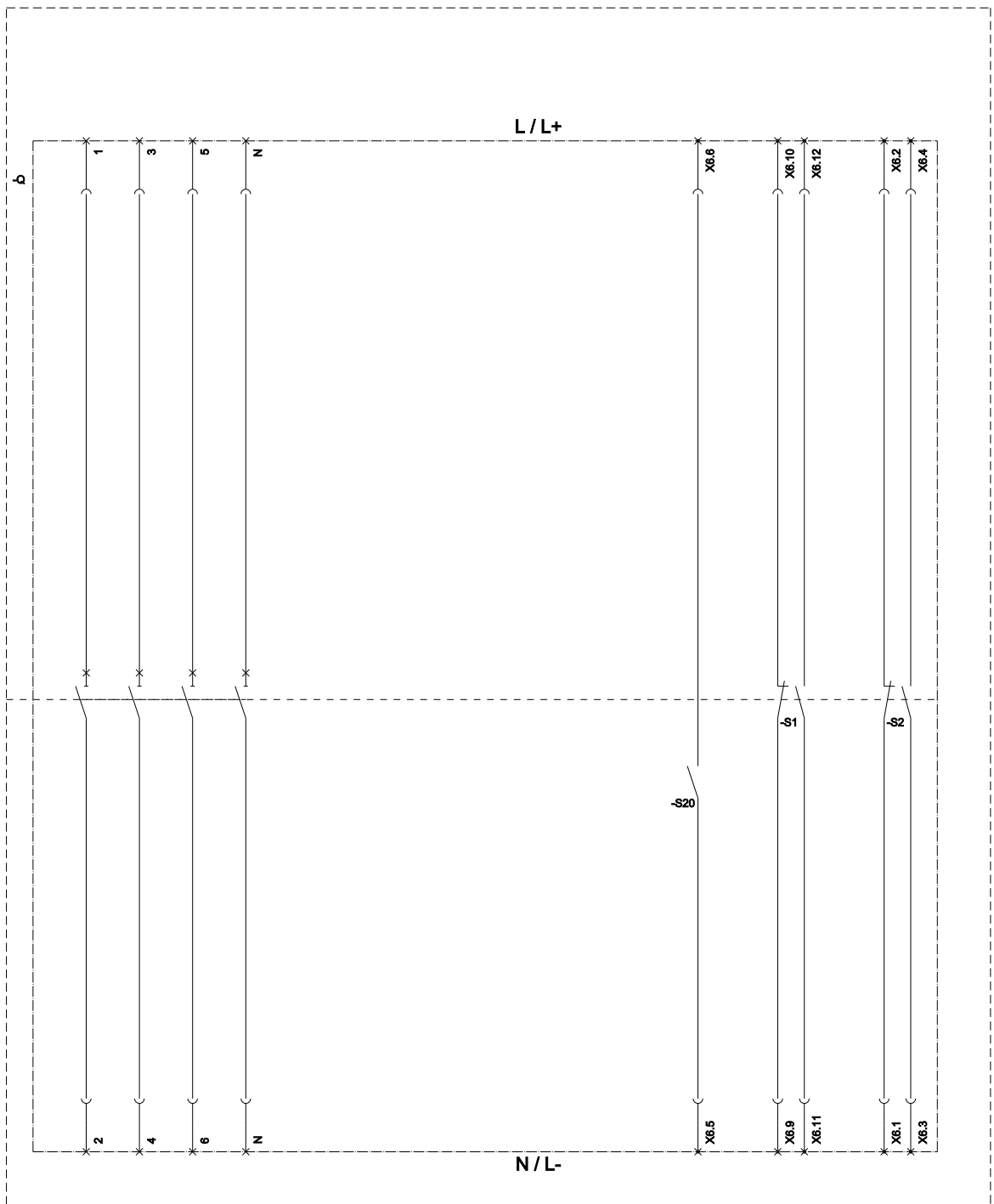
<http://www.siemens.com/cax>

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

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



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S1-S8 (AUX: Auxiliary switch / Hilfschalter); S20 (RTC: Ready to close signalling switch / Einschaltbereitschaftsmeldesalter);
 PSS: position signaling switch module / Positionsmeldesaltermodul;

last modified:

9/22/2025 

