



Non-automatic circuit breaker withdrawable version, with guide frame, IEC 60947-2, frame size 1, 3-poles,  $I_n=2000A$  up to 690V AC 50/60Hz, breaking capacity S  $I_{cc}=66/50kA$  at 500/690V, without electr. trip unit ETU, rear connection flange, guide frame with shutter and position signall. switch (3xW), without Com & metering function with manual and motorized operating mechanism (M) 110-127 V AC / 110-125 V DC, Storage status and ready-to- close signaling switches, Auxiliary switches 4NO+4NC, Closing coil (CC) 100% OP 110-127 V AC / 110-125 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), without 2nd shunt trip, Shunt trip (ST) 100% OP 110-127 V AC / 110-125 V DC, suitable for continuous duty, Option R30 = Mechanical interlock to prevent opening of the circuit breaker compartment door, if ACB is closed; for withdrawable design. Option S07 = Locking provision against unauthorized closing Secured Open; for padlock device Padlocks are not included.

Model	
product brand name	SENTRON
product designation	Non-automatic circuit breaker
suitability for use	AC non-automatic circuit breaker
size of the circuit-breaker	1
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/spring charging motor with spring charge signaling switch
Weight	73.85 kg
Net Weight	60.85 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	440 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	1930 A
• at 70 °C / rated value	1780 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>	
<b>Measuring functions</b>	
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	7500
• at 690 V / with support / typical	30000
<b>Dimensions</b>	
height	468 mm
width	320 mm
depth	471 mm
<b>Main connection</b>	
arrangement of electrical connectors / for main current circuit	main connection, connecting flange
<b>Auxiliary circuit</b>	
design of the auxiliary switch	4 NO + 4 NC
number of NC contacts / for auxiliary contacts	4
number of NO contacts / for auxiliary contacts	4
number of CO contacts / for auxiliary contacts	0
<b>Internal accessories</b>	
product component	
• undervoltage release	No
• voltage trigger	Yes
• trip indicator	No
• motor drive	Yes
<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

**Approvals / Certificates**

<b>Environment</b>	<b>General Product Approval</b>
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<b>EMV</b>	<b>Radio Equipment Type Approval Certificate</b>	<b>Maritime application</b>
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[Industry Canada \(IC\)](#)

[Miscellaneous](#)

[FCC](#)



**Maritime application**



#### 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>

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

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

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1120-3AA64-7DA3-Z R30+S07>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1120-3AA64-7DA3-Z R30+S07>

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

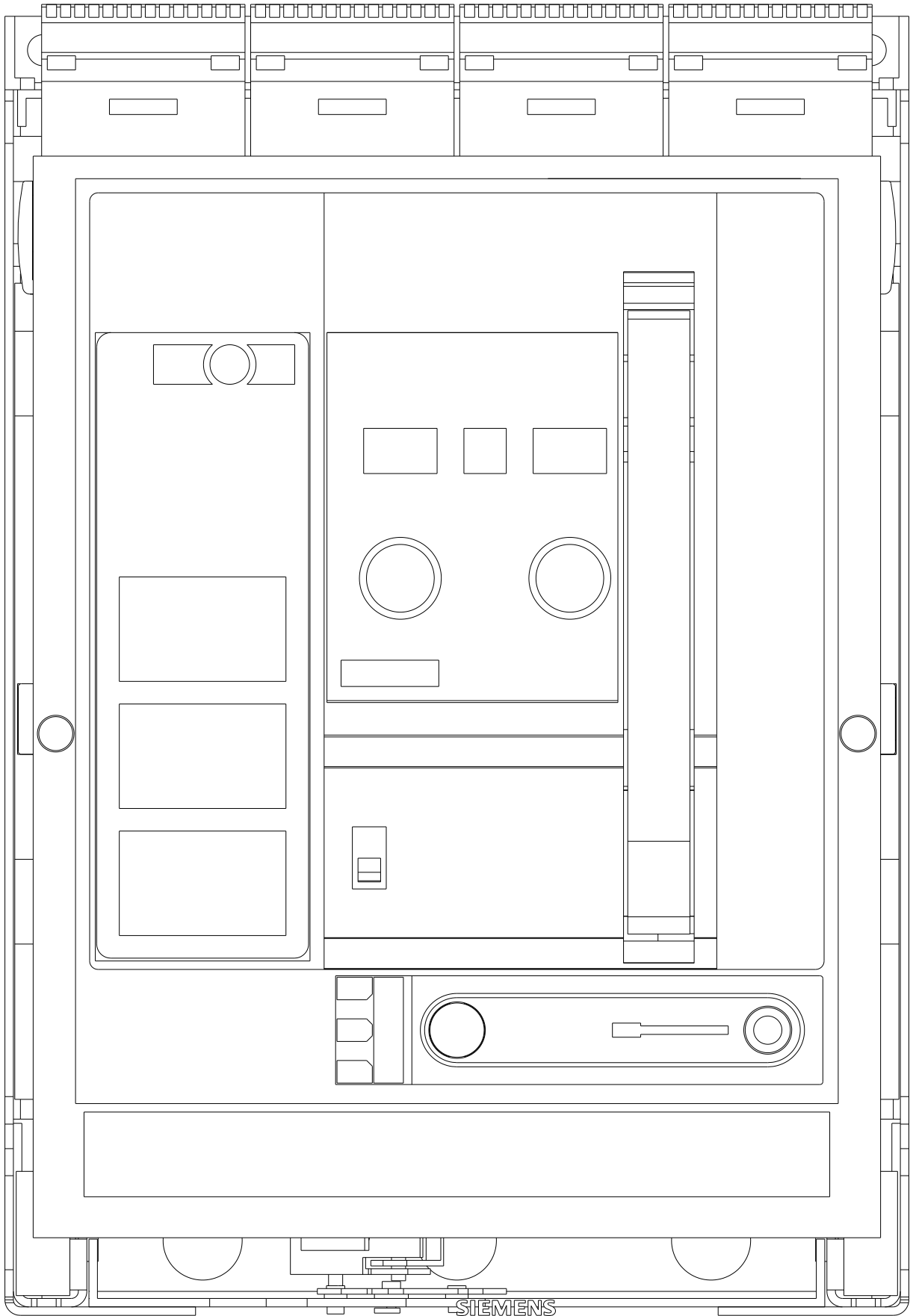
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1120-3AA64-7DA3-Z R30+S07](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1120-3AA64-7DA3-Z R30+S07)

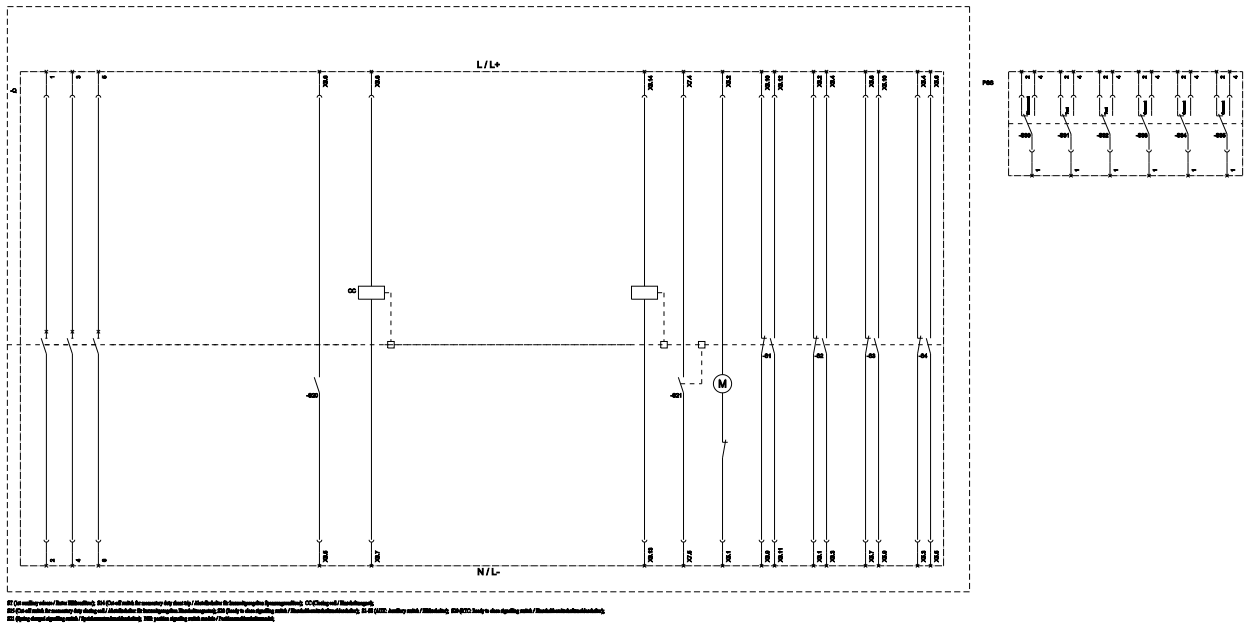
**CAx-Online-Generator**

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

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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