








DC non-automatic ACB Fixed-mounted version, IEC 60947-2, frame size 2, 4-poles, $I_n=4000\text{A}$ to 1000V DC , Breaking capacity $E I_{cc}=20\text{kA}$ at 1000V DC , without electr. trip unit ETU, rear connection horizontal, without Com & metering function with manual and motorized operating mechanism (M) $208\text{-}240\text{ V AC} / 220\text{-}250\text{ V DC}$, Storage status and ready-to-close signaling switches, Auxiliary switches $2\text{NO}+2\text{NC}$, Closing coil (CC) $100\% \text{ OP } 208\text{-}240\text{ V AC} / 220\text{-}250\text{ V DC}$, applicable for continuous duty, without Remote trip alarm reset coil (RR), without 2nd shunt trip, Shunt trip (ST) $100\% \text{ OP } 208\text{-}240\text{ V AC} / 220\text{-}250\text{ V DC}$, suitable for continuous duty,

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | 3WA air circuit breaker |
| suitability for use | DC non-automatic circuit breaker |
| size of the circuit-breaker | II |
| number of poles | 4 |
| position / of neutral conductor | neutral left |
| fastening method | fixed-mounted circuit breakers |
| design of the product | DC application |
| type of the driving mechanism | manual operating mechanism/spring charging motor with spring charge signaling switch |
| Weight | 78.006 kg |
| Net Weight | 63.006 kg |
| General technical data | |
| insulation voltage / rated value | 1000 V |
| operating voltage / for main current circuit / at DC / maximum | 1000 V |
| power loss [W] / maximum | 820 W |
| Current | |
| continuous current / rated value / maximum | 4000 A |
| continuous current / rated value | 4000 A |
| operational current | |
| • at $40\text{ }^\circ\text{C}$ / rated value | 4000 A |
| • at $45\text{ }^\circ\text{C}$ / rated value | 4000 A |
| • at $50\text{ }^\circ\text{C}$ / rated value | 4000 A |
| • at $55\text{ }^\circ\text{C}$ / rated value | 4000 A |
| • at $60\text{ }^\circ\text{C}$ / rated value | 4000 A |
| • at $70\text{ }^\circ\text{C}$ / rated value | 3900 A |
| Switching capacity and short-time withstand current, according to IEC 60947-2 | |
| switching capacity class of the circuit breaker | E |
| conditional short-circuit current (I_{cc}) / for non-automatic air circuit breakers / at DC | |
| • at 600 V / rated value | 20 kA |
| • at 1000 V / rated value | 20 kA |
| Basic protection functions | |
| L: Overload protection N-conductor | |
| S: delayed short-circuit protection ST | |
| S: delayed short-circuit protection ST, settings values I_{0t} | |
| S: delayed short-circuit protection ST, settings values I_{2t} | |
| 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 | 10000 | | | |
| • with support / typical | 20000 | | | |
| electrical endurance (operating cycles) | | | | |
| • at DC / at 1000 V / with support / typical | 20000 | | | |
| • at DC / at 1000 V / without support / typical | 1000 | | | |
| Dimensions | | | | |
| height | 462 mm | | | |
| width | 590 mm | | | |
| depth | 357 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 | Yes | | | |
| • trip indicator | No | | | |
| • motor drive | Yes | | | |
| 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 | |
|  |  |  |  | |
| CCC | | EG-Konf. | | |
| | | |  | |
| | | | RCM | |
| | | | Miscellaneous | |
| Radio Equipment Type Approval Certificate | | Test Certificates | | Maritime application |
|  | Miscellaneous | FCC | Miscellaneous | Special Test Certificate |
| UL | | | | |
| | | | |  |
| | | | | ABS |
| Maritime application | other | Dangerous goods | Environment | |



[Confirmation](#)

[Manufacturer Declaration](#)

[Transport Information](#)



Environment



Siemens
EcoTech



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=3WA1240-8AU12-4EA4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-8AU12-4EA4>

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

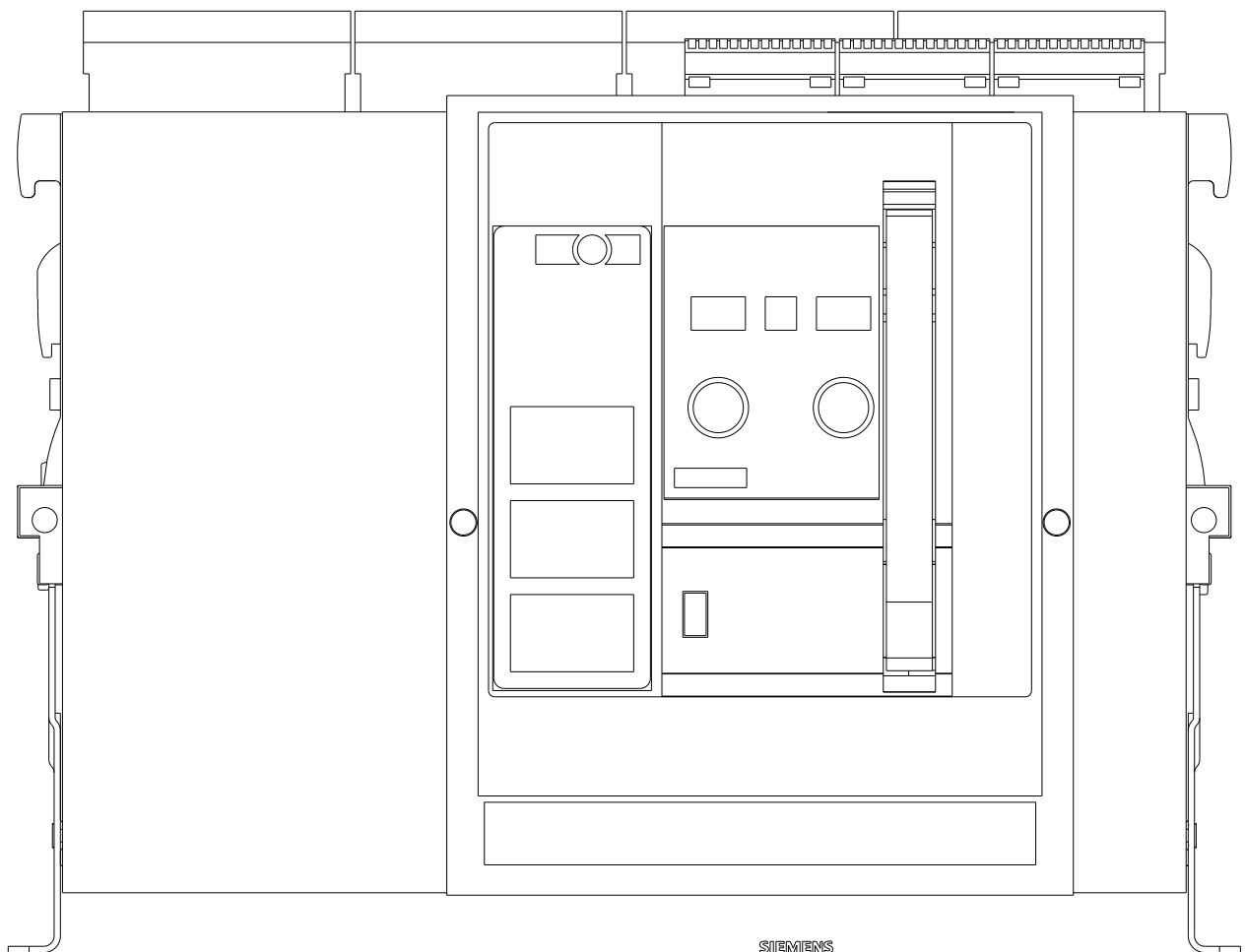
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-8AU12-4EA4

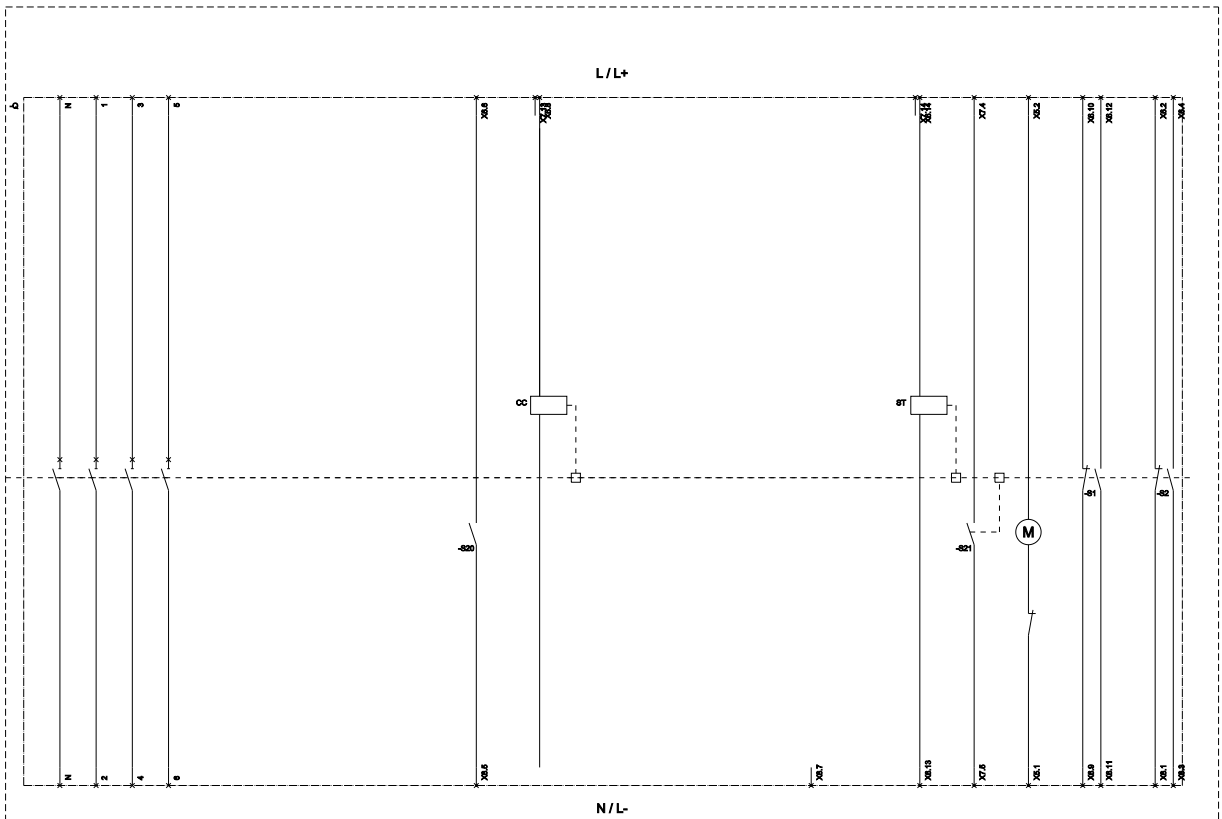
CAX-Online-Generator

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

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

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





S1 (On working voltage / Unter Spannung); S4 (On-off switch for emergency stop / Abschaltaktor für Notstopfunktion); CC (Closing coil / Einschaltspanne);
 S2 (On-off switch for emergency stop during call / Abschaltaktor für Notstopfunktion während Anruf); S3 (Ready to close signaling switch / Abschaltaktor für Anruf); S5 (ALTC auxiliary switch / Hilfskontakt); S6 (RTIC Ready to close signaling switch / Abschaltaktor für Anruf);
 S7 (Flying contact signaling switch / Spindelkontakt);

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