SIEMENS

## Data sheet 3VA1112-1AA42-0AA0

Siemens EcoTech



switch disconnector 3VA1 IEC frame 160 4-pole SD100, In=125A without overload protection w/o short-circuit protection nut keeper kit

| | |
|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| product version | General applications |
| design of the product | in MCCB design |
| number of poles | 4 |
| design of the auxiliary release | without |
| design of the auxiliary switch | Without |
| **General technical data** | |
| insulation voltage / rated value | 800 V |
| operating voltage / at DC / rated value | 600 V |
| operating voltage / at AC / rated value | 690 V |
| surge voltage resistance / rated value | 8 kV |
| power loss [W] / maximum | 38 W |
| mechanical service life (operating cycles) / typical | 20 000 |
| type of device | fixed mounting |
| suitability for use / switch disconnector | Yes |
| suitability for use / main switch | Yes |
| suitability for use / EMERGENCY OFF switch | Yes |
| suitability for use / maintenance/repair switch | Yes |
| product function / communication function | No |
| Net Weight | 1.149 kg |
| **Current** | |
| short-time withstand current (Icw) / at AC / limited to 0.5 s / rated value | 2 kA |
| operational current / rated value | 125 A |
| operational current | |
| • at 40 °C | 125 A |
| • at 45 °C | 125 A |
| • at 50 °C | 125 A |
| • at 55 °C | 125 A |
| • at 60 °C | 125 A |
| • at 65 °C | 125 A |
| • at 70 °C | 125 A |
| let-through I2t value / at AC-23 B | |
| • at 400 V / maximum permissible | 475 000 $A^2 \cdot s$ |


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| | |
|---|---|
| ● at 500 V / maximum permissible | 475 000 A²·s |
| ● at 690 V / maximum permissible | 475 000 A²·s |
| let-through current (Ic) / at AC-23 B | |
| ● at 400 V / maximum permissible | 20 kA |
| ● at 500 V / maximum permissible | 3 kA |
| ● at 690 V / maximum permissible | 3 kA |
| **Switching capacity according to IEC 60947** | |
| **conditional short-circuit current (Iq) / with line-side fuse protection** | |
| ● at 415 V / by LV HRC fuse link 3NA, 3ND (sizes 00/000, 1, 2, type gL/gG) / rated value | 70 kA |
| **Mechanical Design** | |
| overvoltage category | IV |
| fastening method | screw fixing |
| fastening method / 4-hole front mounting | Yes |
| fastening method / front mounting with central attachment | No |
| fastening method / rail mounting | No |
| product component | |
| ● undervoltage release | No |
| ● voltage trigger | No |
| ● undervoltage release with leading contact | No |
| ● trip indicator | No |
| product feature / interlock | No |
| height | 130 mm |
| width | 101.6 mm |
| depth | 70 mm |
| display version / for switch position indicator | Handle switch position On, Trip, Off |
| design of the actuating element | toggle handle |
| type of the driving mechanism / motor drive | No |
| **Connections** | |
| arrangement of electrical connectors / for main current circuit | Front terminal |
| type of electrical connection / for main current circuit | busbar connection |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) | silver |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | Silver |
| **Auxiliary circuit** | |
| number of CO contacts / for auxiliary contacts | 0 |
| number of NC contacts / for auxiliary contacts | 0 |
| number of NO contacts / for auxiliary contacts | 0 |
| **Accessories** | |
| product extension / auxiliary switch | No |
| product extension / optional / motor drive | Yes |
| **Environmental conditions** | |
| protection class IP / on the front | IP40 |
| ambient temperature | |
| ● during operation / minimum | -25 °C |
| ● during operation / maximum | 70 °C |
| ● during storage / minimum | -40 °C |
| ● during storage / maximum | 80 °C |
| **reference code / according to IEC 81346-2** | Q |
| **Approvals / Certificates** | |
| **General Product Approval** | |







Miscellaneous






Confirmation

| General Product Approval | EMV | Test Certificates | Maritime application |
|---|---|---|---|


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Miscellaneous

Special Test Certific-ate

| Maritime application | other |
|---|---|

CCS (China Classifica-tion Society)

Miscellaneous

Confirmation

| Environment |
|---|

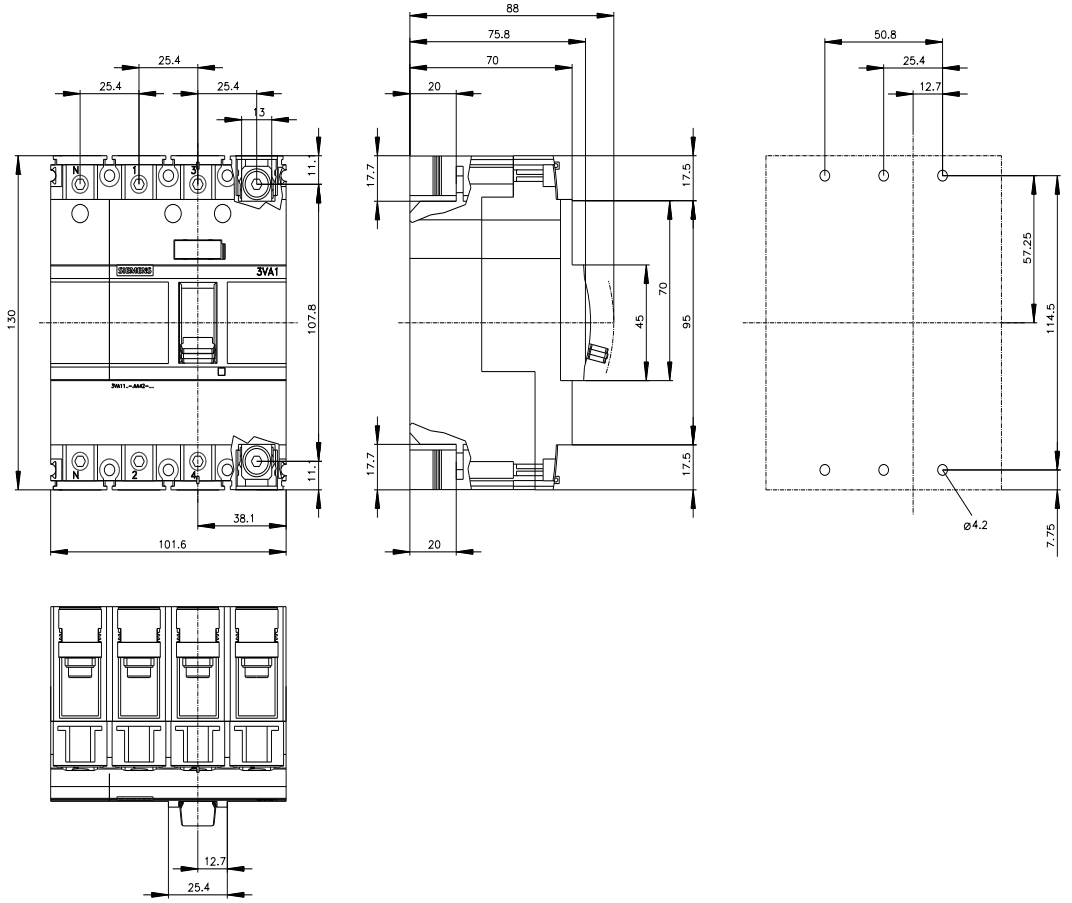
Environmental Con-firmations

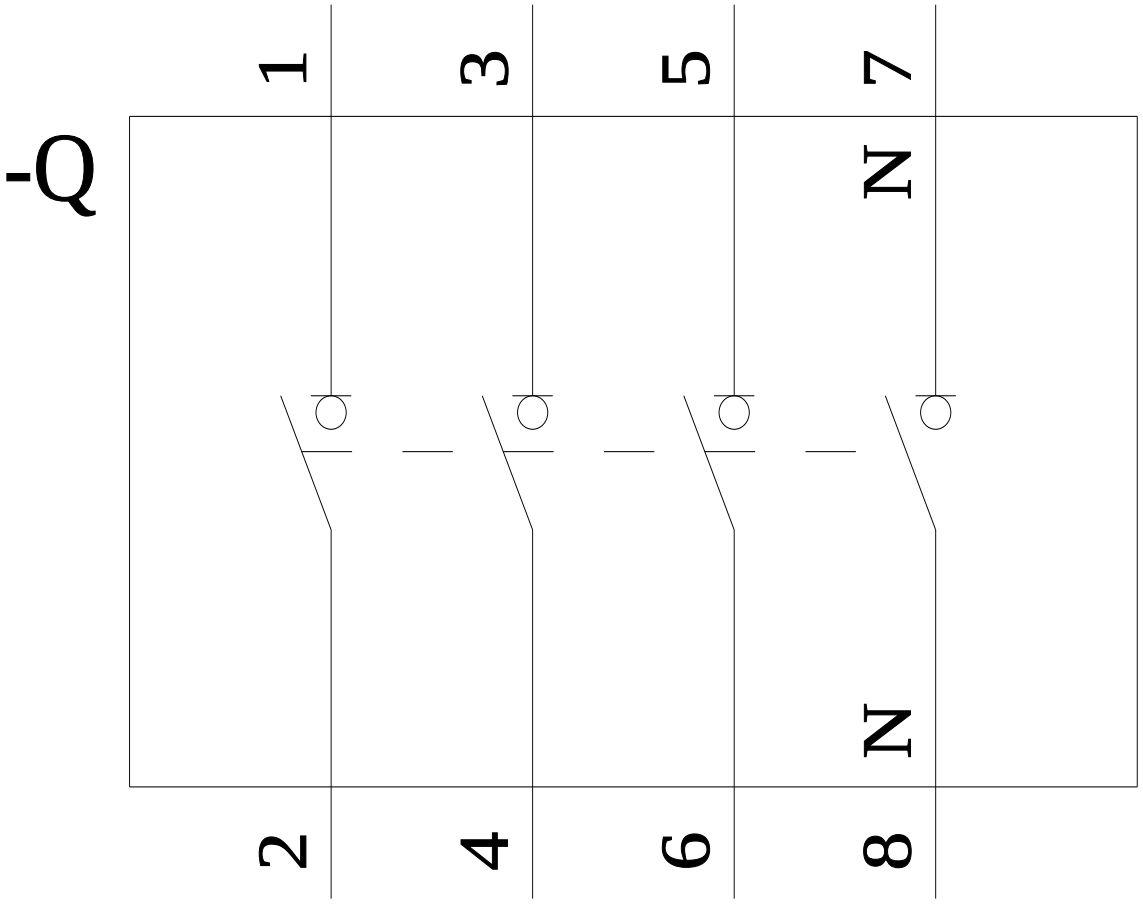
Environmental Con-firmations

## 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 (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1112-1AA42-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3VA1112-1AA42-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1112-1AA42-0AA0
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
**Kennlinien**
https://curves.simaris.siemens.com/curves/3VA1112-1AA42-0AA0


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