



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

| Model | |
|------------------------------------------------------|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| 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 |
| power loss [W] / maximum | 38 W |
| mechanical service life (operating cycles) / typical | 15 000 |
| product function / communication function | No |
| Net Weight | 1.149 kg |
| Current | |
| 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 I _{2t} value / at AC-23 B | |
| • at 400 V / maximum permissible | 475 000 A ² ·s |
| • at 500 V / maximum permissible | 475 000 A ² ·s |
| • at 690 V / maximum permissible | 475 000 A ² ·s |
| let-through current (I _c) / at AC-23 B | |
| • at 400 V / maximum permissible | 20 kA |
| • at 690 V / maximum permissible | 3 kA |
| Mechanical Design | |
| product component | |
| • undervoltage release | No |
| • voltage trigger | No |
| • undervoltage release with leading contact | No |
| • trip indicator | No |
| height | 130 mm |
| width | 101.6 mm |
| depth | 70 mm |

| 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) | Tin |

| Auxiliary circuit | |
|------------------------------------------------|---|
| number of CO contacts / for auxiliary contacts | 0 |

| Accessories | |
|--------------------------------------------|-----|
| 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 |

| Environmental footprint | |
|----------------------------------------------------------|-----------|
| Environmental Product Declaration(EPD) | Yes |
| Global Warming Potential [CO2 eq] / total | 190 kg |
| Global Warming Potential [CO2 eq] / during manufacturing | 4.67 kg |
| Global Warming Potential [CO2 eq] / during operation | 186 kg |
| Global Warming Potential [CO2 eq] / after end of life | -0.826 kg |
| reference code / according to IEC 81346-2 | Q |

Approvals / Certificates

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

| General Product Approval | EMV | Test Certificates | Marine / Shipping |
|--------------------------|-----|-------------------|-------------------|
|--------------------------|-----|-------------------|-------------------|



[Special Test Certificate](#)

[Miscellaneous](#)



| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



[CCS \(China Classification Society\)](#)

[Confirmation](#)

[Miscellaneous](#)

| other | Environment |
|-------|-------------|
|-------|-------------|

[Miscellaneous](#)



[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://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,...)

<http://support.industry.siemens.com/cs/ww/en/ps/3VA1112-1AA42-0AA0>

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

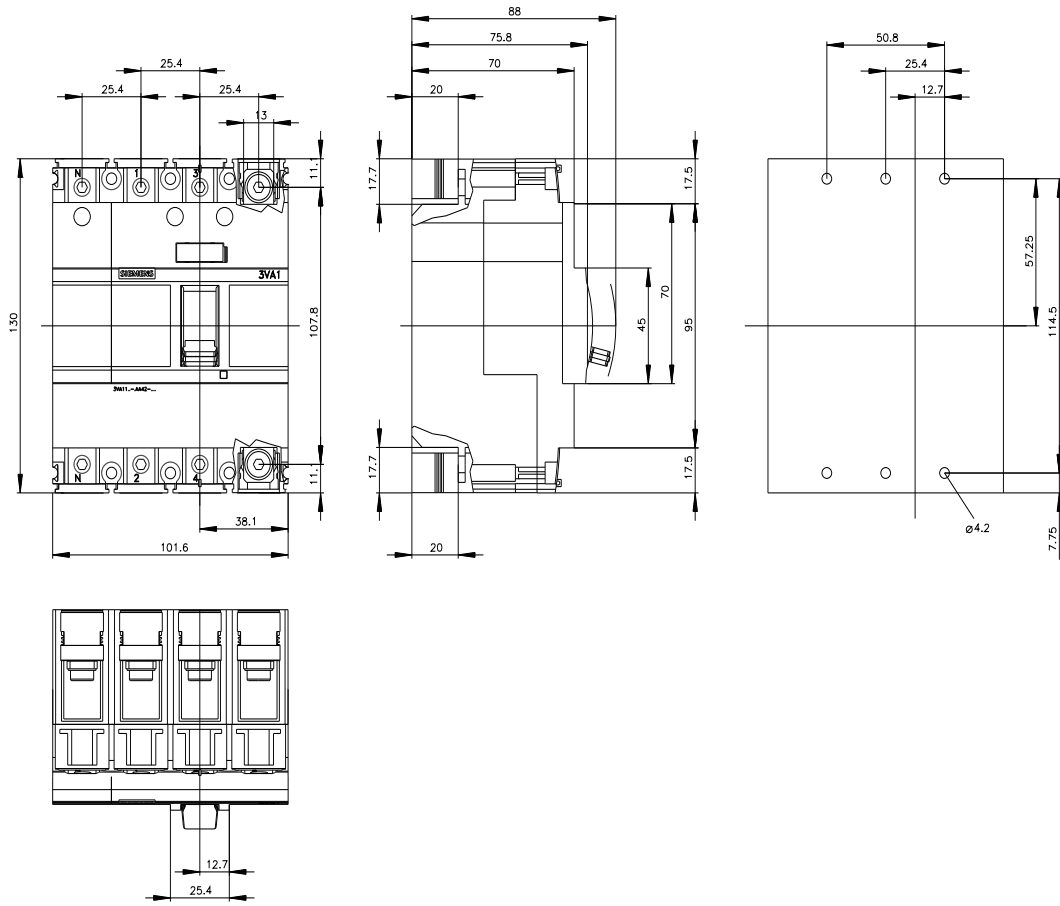
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1112-1AA42-0AA0

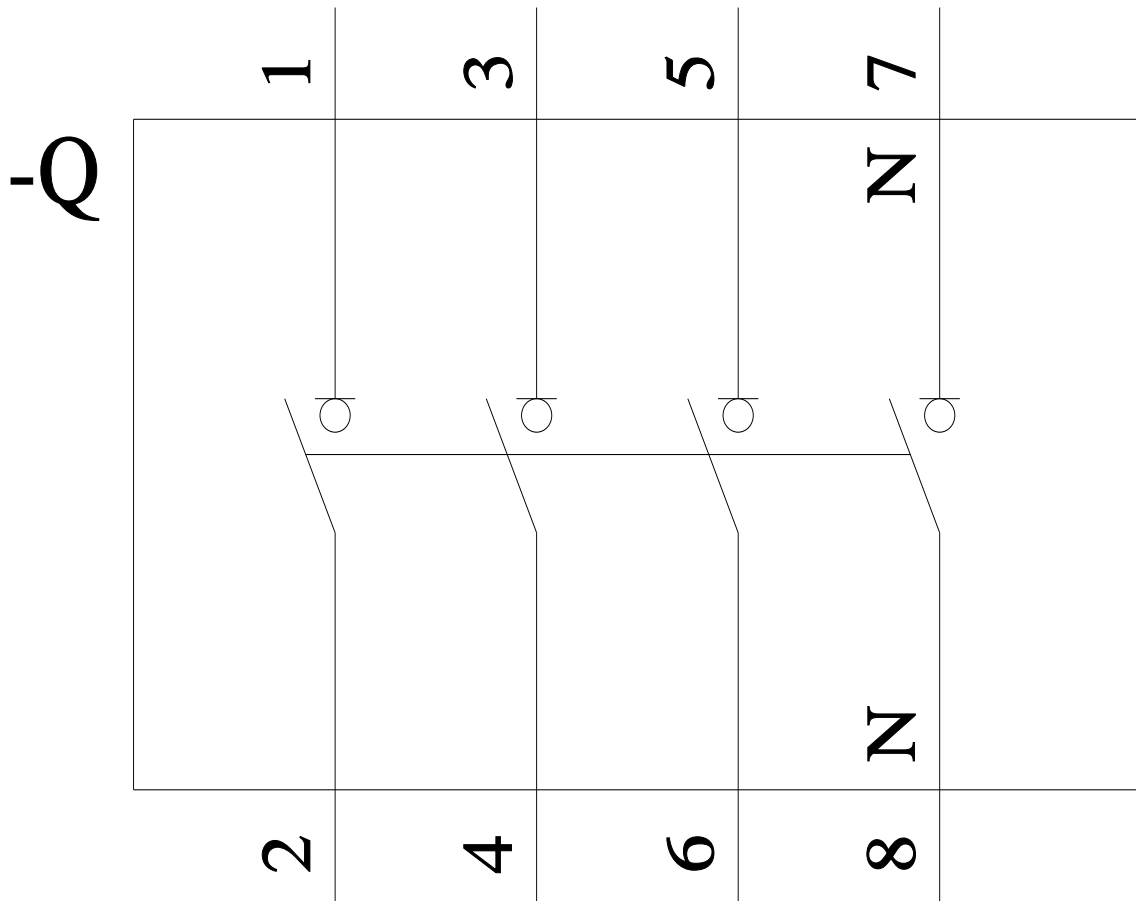
CAX-Online-Generator

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

Tender specifications

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





last modified:

5/26/2024 

