



switch disconnecter 3VA1 IEC frame 160 3-pole SD100,  $I_n=100A$  without overload protection w/o short-circuit protection clamp connection

| Model  |                             |
|--|-----------------------------|
| product brand name                                   | SENTRON                     |
| product designation                                  | Molded case circuit breaker |
| design of the product                                | in MCCB design              |
| number of poles                                      | 3                           |
| 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              | 500 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   | 939 g                       |
| Current  |                             |
| operational current                                  |                             |
| • at 40 °C   | 100 A                       |
| • at 45 °C   | 100 A                       |
| • at 50 °C   | 100 A                       |
| • at 55 °C   | 100 A                       |
| • at 60 °C   | 100 A                       |
| • at 65 °C   | 100 A                       |
| • at 70 °C   | 100 A                       |
| let-through I <sub>2t</sub> value / at AC-23 B       |                             |
| • at 400 V / maximum permissible                     | 475 000 A <sup>2</sup> ·s   |
| • at 500 V / maximum permissible                     | 475 000 A <sup>2</sup> ·s   |
| • at 690 V / maximum permissible                     | 475 000 A <sup>2</sup> ·s   |
| let-through current (I <sub>c</sub> ) / 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  | 76.2 mm                     |
| depth  | 70 mm                       |

| Connections   |                     |
|---|---------------------|
| arrangement of electrical connectors / for main current circuit                       | Front terminal      |
| type of electrical connection / for main current circuit                              | Terminal 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](#)

[Type Test Certificates/Test Report](#)



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



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

[Miscellaneous](#)

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

[Confirmation](#)

[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=3VA1110-1AA36-0AA0>

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

<http://support.industry.siemens.com/cs/ww/en/ps/3VA1110-1AA36-0AA0>

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

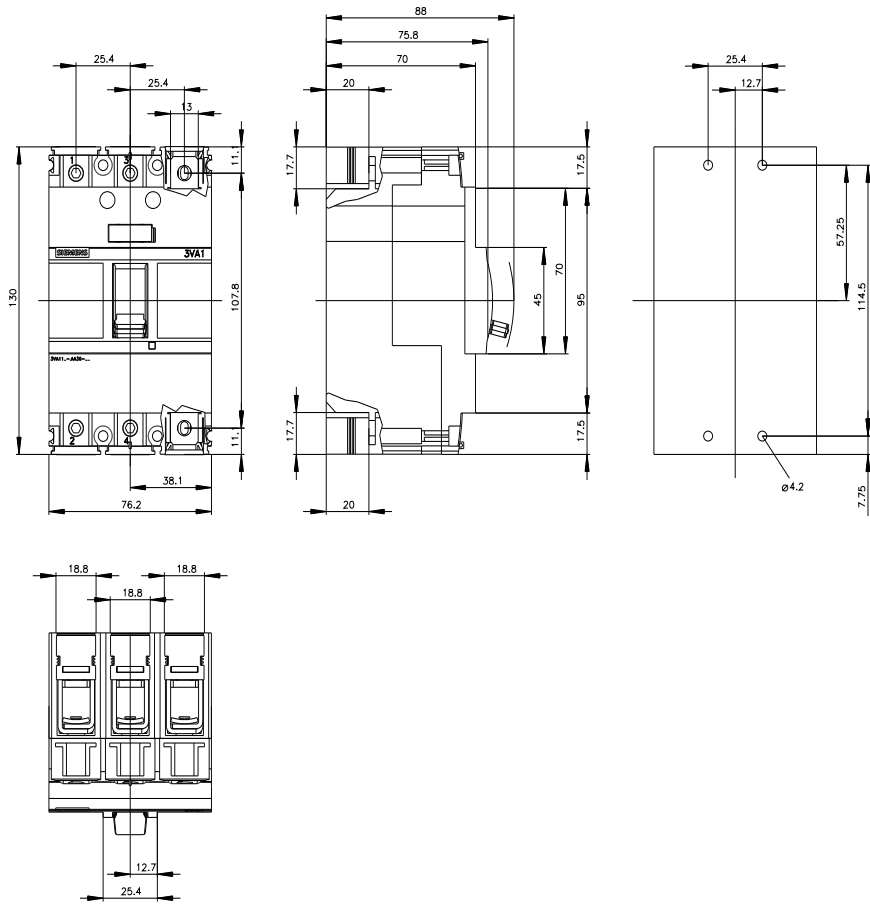
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1110-1AA36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1110-1AA36-0AA0)

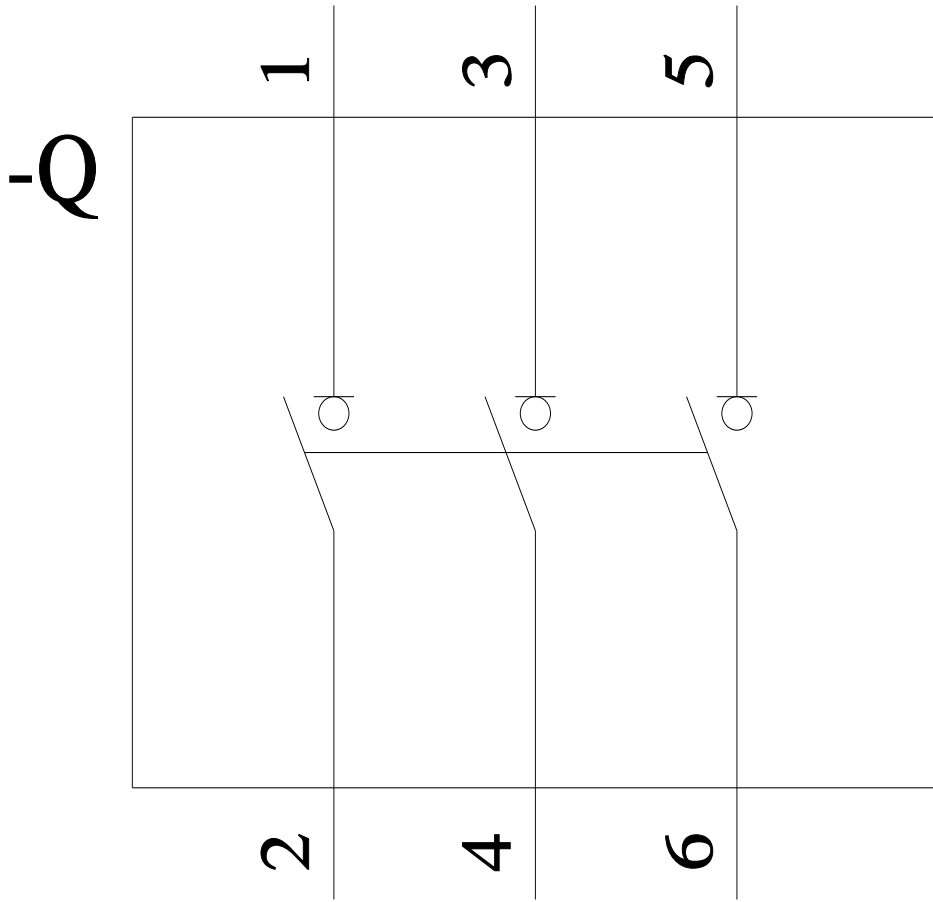
CAX-Online-Generator

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

Tender specifications

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





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