



Switch disconnecter 16A, Size 1, 6-pole DC Front operating mechanism center  
Basic unit without handle Box terminal

| Model                                                                                  |                           |
|----------------------------------------------------------------------------------------|---------------------------|
| product brand name                                                                     | SENTRON                   |
| product designation                                                                    | 3KD switch disconnecter   |
| design of the product                                                                  | DC switch                 |
| display version for switch position indicator door-coupling rotary operating mechanism | ON-OFF                    |
| design of the actuating element                                                        | Without handle            |
| type of the driving mechanism                                                          | Front operating mechanism |
| type of the driving mechanism motor drive                                              | No                        |
| General technical data                                                                 |                           |
| number of poles                                                                        | 6                         |
| type of device                                                                         | fixed mounting            |
| size of switch disconnecter                                                            | 1                         |
| mechanical service life (operating cycles) typical                                     | 15 000                    |
| electrical endurance (operating cycles)                                                |                           |
| • at DC-21 A at 1000 V                                                                 | 1 500                     |
| position of the switch operating mechanism                                             | after the third pole      |
| overvoltage category                                                                   | III                       |
| Voltage                                                                                |                           |
| <b>operating voltage with current paths in series</b>                                  |                           |
| • with degree of pollution 2 at DC rated value                                         | 1200 V / 6                |
| • with degree of pollution 3 at DC rated value                                         | 1000 V / 6                |
| <b>insulation voltage</b>                                                              |                           |
| • with degree of pollution 2 at DC rated value                                         | 1 250 V                   |
| • with degree of pollution 3 at DC rated value                                         | 1 000 V                   |
| surge voltage resistance rated value                                                   | 8 kV                      |
| Protection class                                                                       |                           |
| protection class IP                                                                    | IP20                      |
| protection class IP                                                                    |                           |
| • with closed switch with cover or cable lug cover                                     | IP20                      |
| • on the front                                                                         | IP20                      |
| Dissipation                                                                            |                           |
| power loss [W]                                                                         |                           |
| • with conventional rated thermal current per pole                                     | 0.1 W                     |
| • with conventional rated thermal current per device                                   | 0.6 W                     |
| • for rated value of the current at AC in hot operating state per pole                 | 0.1 W                     |
| Main circuit                                                                           |                           |
| operational current rated value                                                        | 16 A                      |
| Auxiliary circuit                                                                      |                           |

|                                                                                  |                                               |
|----------------------------------------------------------------------------------|-----------------------------------------------|
| number of connected NC contacts for auxiliary contacts                           | 0                                             |
| number of connected NO contacts for auxiliary contacts                           | 0                                             |
| number of connected CO contacts for auxiliary contacts                           | 0                                             |
| number of CO contacts for auxiliary contacts                                     | 4                                             |
| number of NC contacts for auxiliary contacts                                     | 0                                             |
| number of NO contacts for auxiliary contacts                                     | 0                                             |
| <b>Suitability</b>                                                               |                                               |
| suitability for use                                                              |                                               |
| • main switch                                                                    | Yes                                           |
| • switch disconnecter                                                            | Yes                                           |
| • EMERGENCY OFF switch                                                           | Yes                                           |
| • safety switch                                                                  | Yes                                           |
| • maintenance/repair switch                                                      | Yes                                           |
| <b>Product details</b>                                                           |                                               |
| product component                                                                |                                               |
| • trip indicator                                                                 | No                                            |
| • voltage trigger                                                                | No                                            |
| • undervoltage release                                                           | No                                            |
| • undervoltage release with leading contact                                      | No                                            |
| product extension auxiliary switch                                               | Yes                                           |
| <b>product extension optional</b>                                                |                                               |
| • motor drive                                                                    | No                                            |
| • voltage trigger                                                                | No                                            |
| <b>Short circuit</b>                                                             |                                               |
| short-circuit current making capacity (I <sub>cm</sub> ) for switch disconnecter |                                               |
| • at DC at 1200 V without fuse link rated value minimum                          | 4.3 kA                                        |
| <b>Connections</b>                                                               |                                               |
| type of connectable conductor cross-sections with flexible busbar                | 2x (0,8x9 mm <sup>2</sup> )                   |
| type of connectable conductor cross-sections                                     |                                               |
| • for copper busbar                                                              | 1 x (2 x 9 mm <sup>2</sup> )                  |
| type of connectable conductor cross-sections for copper conductor                |                                               |
| • solid                                                                          | 1x (1 ... 16 mm <sup>2</sup> )                |
| • finely stranded with core end processing                                       | 1x (1 ... 35 mm <sup>2</sup> )                |
| • stranded                                                                       | 1x (6 ... 35 mm <sup>2</sup> )                |
| type of electrical connection for main current circuit                           | box terminal                                  |
| <b>Mechanical Design</b>                                                         |                                               |
| height                                                                           | 119 mm                                        |
| width                                                                            | 148 mm                                        |
| depth                                                                            | 68 mm                                         |
| fastening method                                                                 | Screw fixing and standard rail mounting 35 mm |
| fastening method                                                                 |                                               |
| • 4-hole front mounting                                                          | No                                            |
| • front mounting with central attachment                                         | No                                            |
| • rail mounting                                                                  | Yes                                           |
| mounting position                                                                | any                                           |
| net weight                                                                       | 1 328 g                                       |
| <b>Environmental conditions</b>                                                  |                                               |
| ambient temperature during operation                                             |                                               |
| • minimum                                                                        | -25 °C                                        |
| • maximum                                                                        | 70 °C                                         |
| ambient temperature during storage                                               |                                               |
| • minimum                                                                        | -50 °C                                        |
| • maximum                                                                        | 80 °C                                         |
| <b>Certificates</b>                                                              |                                               |
| reference code according to IEC 81346-2                                          | Q                                             |
| <b>Approvals Certificates</b>                                                    |                                               |
| <b>General Product Approval</b>                                                  |                                               |



[Confirmation](#)



[Miscellaneous](#)



| Test Certificates | Marine / Shipping | other | Environment |
|-------------------|-------------------|-------|-------------|
|-------------------|-------------------|-------|-------------|

[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

## Environment

[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=3KD1660-2ME20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD1660-2ME20-0>

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

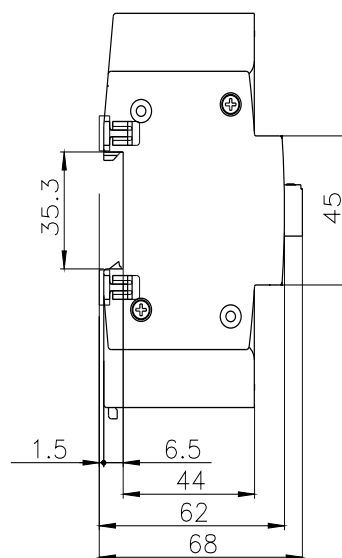
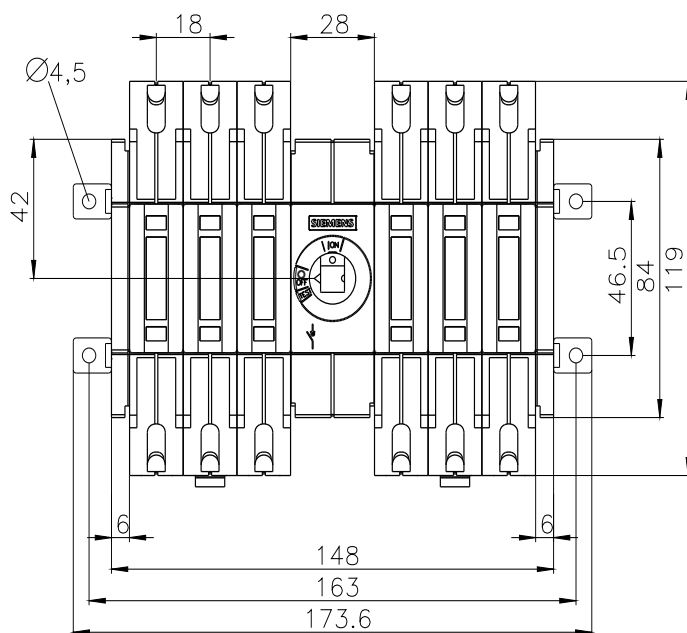
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD1660-2ME20-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1660-2ME20-0)

CAX-Online-Generator

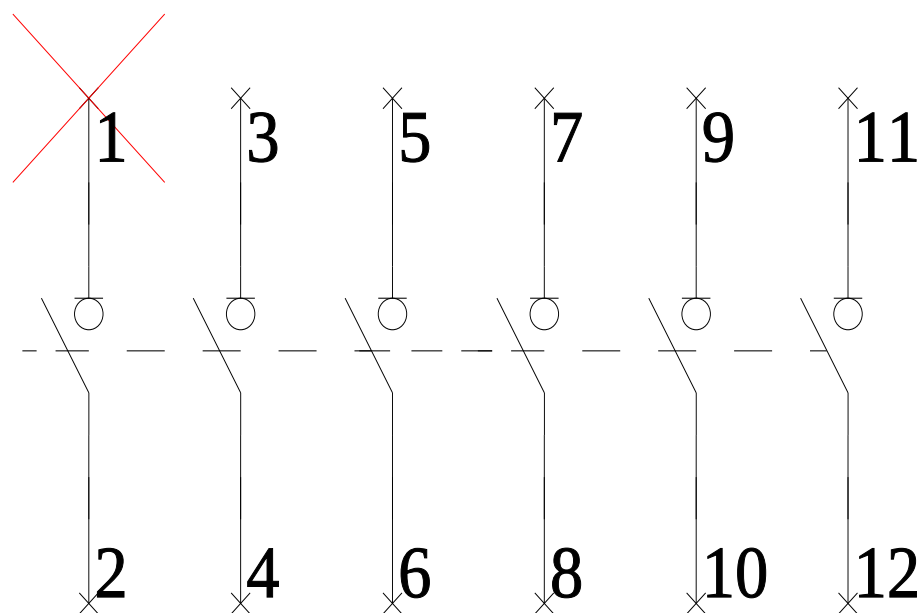
<http://www.siemens.com/cax>

Tender specifications

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



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