



Switch disconnecter 63 A, Size 1, 4-pole Front operating mechanism left Complete unit with direct operating mechanism gray Box terminal

| Model   |                           |
|---|---------------------------|
| product brand name  | SENTRON                   |
| product designation   | 3KD switch disconnecter   |
| design of the product   | Switch                    |
| display version for switch position indicator manual operation                                | ON-OFF-TEST               |
| design of the actuating element   | Long rotary knob          |
| type of the driving mechanism   | Front operating mechanism |
| type of the driving mechanism motor drive   | No                        |
| General technical data  |                           |
| number of poles   | 4                         |
| type of device  | fixed mounting            |
| size of switch disconnecter   | 1                         |
| mechanical service life (operating cycles) typical  | 15 000                    |
| electrical endurance (operating cycles)   |                           |
| • at AC-23 A at 690 V   | 6 000                     |
| • at DC-23 A at 440 V   | 1 500                     |
| I <sup>2</sup> t value  |                           |
| • with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum               | 2 331 A <sup>2</sup> ·s   |
| • of the fuse at 500 V maximum permissible  | 26 505 A <sup>2</sup> ·s  |
| • of the gG fuse at 690 V maximum permissible   | 24 005 A <sup>2</sup> ·s  |
| • of the gG/aM SITOR fuse at 1000 V maximum permissible                                       | 6 000 A <sup>2</sup> ·s   |
| • of the molded case circuit breaker at 415 V maximum permissible                             | 480 000 A <sup>2</sup> ·s |
| position of the switch operating mechanism  | at the left end           |
| overvoltage in percent relative to the operating voltage at AC at 400, 500, 690 V at 50/60 Hz | 10 %                      |
| overvoltage category  | III                       |
| degree of pollution   | 3                         |
| Voltage   |                           |
| <b>operating voltage with current paths in series</b>   |                           |
| • with degree of pollution 2 at DC rated value  | 440 V / 3                 |
| • with degree of pollution 3 at DC rated value  | 440 V / 3                 |
| <b>insulation voltage</b>   |                           |
| • rated value   | 1 000 V                   |
| surge voltage resistance rated value  | 8 kV                      |
| operational current at AC-22 A at 1000 V maximum  | 63 A                      |
| Protection class  |                           |
| protection class IP   | IP20                      |
| protection class IP   |                           |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>with closed switch with cover or cable lug cover</li> <li>on the front</li> </ul>   | IP20<br>IP20   |
| <b>Dissipation</b>   |  |
| power loss [W]   |  |
| <ul style="list-style-type: none"> <li>with conventional rated thermal current per pole</li> <li>with conventional rated thermal current per device</li> <li>for rated value of the current at AC in hot operating state per pole</li> </ul> | 1 W<br>4 W<br>1 W  |
| <b>Main circuit</b>  |  |
| operating power  |  |
| <ul style="list-style-type: none"> <li>at AC-23 A at 500 V rated value</li> </ul>  | 37 kW  |
| operational current rated value  | 63 A   |
| <b>Auxiliary circuit</b>   |  |
| 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  |  |
| <ul style="list-style-type: none"> <li>main switch</li> <li>switch disconnecter</li> <li>EMERGENCY OFF switch</li> <li>safety switch</li> <li>maintenance/repair switch</li> </ul>   | Yes<br>Yes<br>No<br>Yes<br>Yes   |
| <b>Product details</b>   |  |
| product component  |  |
| <ul style="list-style-type: none"> <li>trip indicator</li> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> </ul>   | No<br>No<br>No<br>No   |
| product extension auxiliary switch   | Yes  |
| <b>product extension optional</b>  |  |
| <ul style="list-style-type: none"> <li>motor drive</li> <li>voltage trigger</li> </ul>   | No<br>No   |
| <b>Short circuit</b>   |  |
| short-time withstand current (I <sub>cw</sub> ) at 1000 V AC/440 V DC limited to 1 s rated value   | 3 kA   |
| short-circuit current making capacity (I <sub>cm</sub> ) for switch disconnecter   |  |
| <ul style="list-style-type: none"> <li>at 1000 V AC without fuse link rated value minimum</li> <li>at DC 440 V without fuse link rated value minimum</li> <li>without fuse link rated value minimum</li> </ul>                               | 7 kA<br>7 kA<br>7 kA   |
| conditional short-circuit current with line-side fuse protection   |  |
| <ul style="list-style-type: none"> <li>at 415 V by molded case circuit breaker rated value</li> <li>at 500 V by gG fuse rated value</li> <li>at 690 V by gG fuse rated value</li> </ul>  | 36 kA<br>100 kA<br>100 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   |  |
| <ul style="list-style-type: none"> <li>for copper busbar</li> </ul>  | '1 x (2 x 9 mm <sup>2</sup> )  |
| type of connectable conductor cross-sections for copper conductor  |  |
| <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>  | 1x (1 ... 16 mm <sup>2</sup> )<br>1x (1 ... 35 mm <sup>2</sup> )<br>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  | 112 mm   |

|  |   |
|--|---|
| depth                                    | 87 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                               | 1 019 g                                       |

### Environmental conditions

|                                      |        |
|--------------------------------------|--------|
| ambient temperature during operation |        |
| • minimum                            | -25 °C |
| • maximum                            | 70 °C  |
| ambient temperature during storage   |        |
| • minimum                            | -50 °C |
| • maximum                            | 80 °C  |

### Certificates

|   |   |
|---|---|
| reference code according to IEC 81346-2 | Q |
|---|---|

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



[Miscellaneous](#)

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



[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

### Environment

[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=3KD2642-2ME10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD2642-2ME10-0>

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

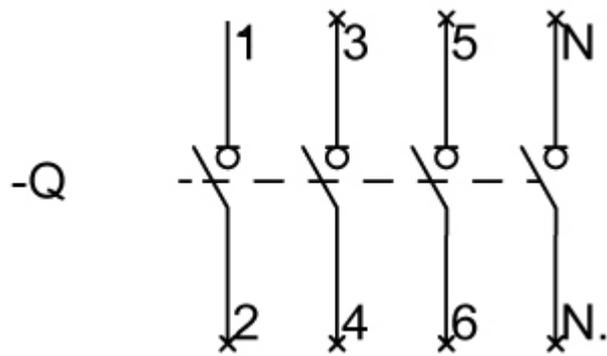
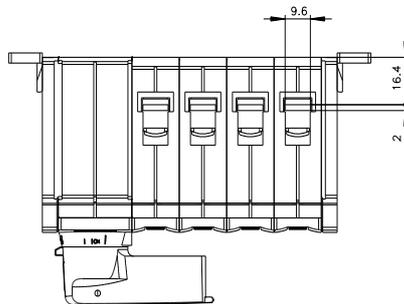
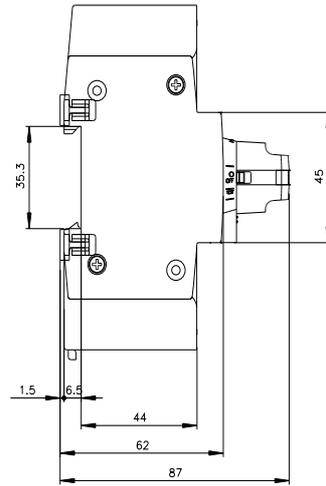
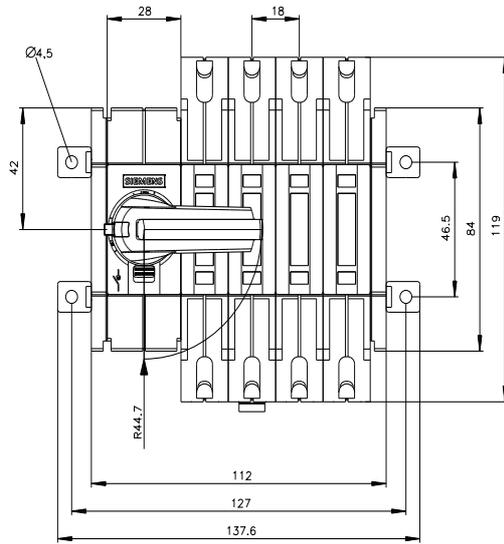
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD2642-2ME10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2642-2ME10-0)

#### CAX-Online-Generator

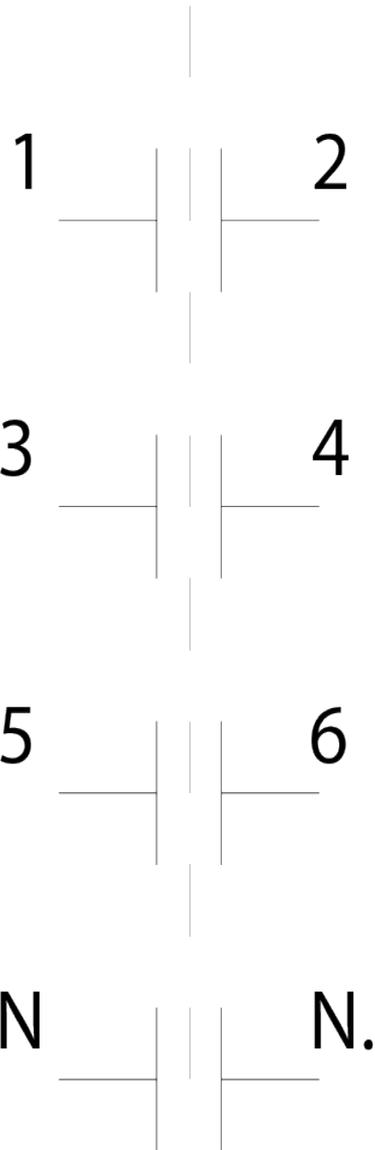
<http://www.siemens.com/cax>

#### Tender specifications

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



# -CR



last modified:

2/1/2024 

