

Switch disconnecter 400 A, Size 3, 4-pole Front operating mechanism left Basic unit without handle flat terminal



| Model   |                             |
|---|-----------------------------|
| product brand name  | SENTRON                     |
| product designation   | 3KD switch disconnecter     |
| design of the product   | 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   | 4                           |
| type of device  | fixed mounting              |
| size of switch disconnecter   | 3                           |
| mechanical service life (operating cycles) typical  | 15 000                      |
| electrical endurance (operating cycles)   |                             |
| • at AC-23 A at 690 V   | 1 000                       |
| • at DC-23 A at 440 V   | 1 000                       |
| I <sup>2</sup> t value  |                             |
| • with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum               | 239 650 A <sup>2</sup> ·s   |
| • of the fuse at 500 V maximum permissible  | 2 150 005 A <sup>2</sup> ·s |
| • of the gG fuse at 690 V maximum permissible   | 1 650 005 A <sup>2</sup> ·s |
| • of the gG/aM SITOR fuse at 1000 V maximum permissible                                       | 260 000 A <sup>2</sup> ·s   |
| • of the molded case circuit breaker at 415 V maximum permissible                             | 4 750 000 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  | IV                          |
| degree of pollution   | 3                           |
| Voltage   |                             |
| operating voltage with current paths in series  |                             |
| • with degree of pollution 2 at DC rated value  | 440 V / 3                   |
| • with degree of pollution 3 at DC rated value  | 440 V / 3                   |
| insulation voltage  |                             |
| • rated value   | 1 000 V                     |
| surge voltage resistance rated value  | 12 kV                       |
| operational current at AC-22 A at 1000 V maximum  | 400 A                       |
| let-through current of the fuse at 500 V maximum permissible                                  | 54 800 A                    |

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| <b>let-through current of the gG fuse at 690 V maximum permissible</b>   | 45 200 A   |
| <b>Supply voltage</b>  |  |
| operating voltage at AC rated value  | 1 000 V  |
| <b>Protection class</b>  |  |
| <b>protection class IP</b>   | IP00   |
| <b>protection class IP</b>   |  |
| <ul style="list-style-type: none"> <li>with closed switch with cover or cable lug cover</li> </ul>                     | IP20   |
| <ul style="list-style-type: none"> <li>on the front</li> </ul>   | IP00   |
| <b>Dissipation</b>   |  |
| <b>power loss [W]</b>  |  |
| <ul style="list-style-type: none"> <li>with conventional rated thermal current per pole</li> </ul>                     | 14 W   |
| <ul style="list-style-type: none"> <li>with conventional rated thermal current per device</li> </ul>                   | 56 W   |
| <ul style="list-style-type: none"> <li>for rated value of the current at AC in hot operating state per pole</li> </ul> | 14 W   |
| <b>Main circuit</b>  |  |
| <b>operating power</b>   |  |
| <ul style="list-style-type: none"> <li>at AC-23 A at 500 V rated value</li> </ul>                                      | 250 kW   |
| operational current rated value  | 400 A  |
| <b>Auxiliary circuit</b>   |  |
| <b>number of connected NC contacts for auxiliary contacts</b>  | 0  |
| <b>number of connected NO contacts for auxiliary contacts</b>  | 0  |
| <b>number of connected CO contacts for auxiliary contacts</b>  | 0  |
| <b>number of CO contacts for auxiliary contacts</b>  | 0  |
| <b>number of NC contacts for auxiliary contacts</b>  | 6  |
| <b>number of NO contacts for auxiliary contacts</b>  | 6  |
| <b>Suitability</b>   |  |
| <b>suitability for use main switch</b>   | Yes  |
| <b>suitability for use switch disconnecter</b>   | Yes  |
| <b>suitability for use EMERGENCY OFF switch</b>  | Yes  |
| <b>suitability for use safety switch</b>   | Yes  |
| <b>suitability for use according to IEC 62626-1 safety switch</b>  | No   |
| <b>suitability for use maintenance/repair switch</b>   | Yes  |
| <b>Product details</b>   |  |
| <b>product feature interlock</b>   | No   |
| <b>product component</b>   |  |
| <ul style="list-style-type: none"> <li>trip indicator</li> </ul>   | No   |
| <ul style="list-style-type: none"> <li>voltage trigger</li> </ul>  | No   |
| <ul style="list-style-type: none"> <li>undervoltage release</li> </ul>   | No   |
| <ul style="list-style-type: none"> <li>undervoltage release with leading contact</li> </ul>                            | No   |
| <b>product extension auxiliary switch</b>  | Yes  |
| <b>product extension optional motor drive</b>  | No   |
| <b>product extension optional voltage trigger</b>  | No   |
| <b>Short circuit</b>   |  |
| <b>short-time withstand current (I<sub>cw</sub>) at 1000 V AC/440 V DC limited to 1 s rated value</b>                  | 13 kA  |
| <b>short-circuit current making capacity (I<sub>cm</sub>) for switch disconnecter</b>                                  |  |
| <ul style="list-style-type: none"> <li>at 1000 V AC without fuse link rated value minimum</li> </ul>                   | 36 kA  |
| <ul style="list-style-type: none"> <li>at DC 440 V without fuse link rated value minimum</li> </ul>                    | 36 kA  |
| <ul style="list-style-type: none"> <li>without fuse link rated value minimum</li> </ul>                                | 36 kA  |
| <b>conditional short-circuit current with line-side fuse protection</b>  |  |
| <ul style="list-style-type: none"> <li>at 415 V by molded case circuit breaker rated value</li> </ul>                  | 65 kA  |
| <ul style="list-style-type: none"> <li>at 500 V by gG fuse rated value</li> </ul>                                      | 100 kA   |
| <ul style="list-style-type: none"> <li>at 690 V by gG fuse rated value</li> </ul>                                      | 100 kA   |
| <b>Connections</b>   |  |
| <b>type of connectable conductor cross-sections for aluminum conductor</b>   |  |
| <ul style="list-style-type: none"> <li>stranded with lug</li> </ul>  | 1x (25 ... 240 mm <sup>2</sup> ), 2x (25 ... 120 mm <sup>2</sup> ) |

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| <b>type of connectable conductor cross-sections</b>  |  |
| <ul style="list-style-type: none"> <li>with combination of Al conductor+switch</li> <li>for copper busbar</li> </ul>                         | 315 A / 240 mm <sup>2</sup><br>'1 x (30 x 10 mm <sup>2</sup> )   |
| <b>type of connectable conductor cross-sections for copper conductor</b>   |  |
| <ul style="list-style-type: none"> <li>stranded with lug according to DIN 46234</li> <li>stranded with lug according to DIN 46235</li> </ul> | 1x (6 ... 240 mm <sup>2</sup> ), 2x (6 ... 150 mm <sup>2</sup> )<br>1x (16 ... 185 mm <sup>2</sup> ), 2x (16 ... 150 mm <sup>2</sup> ) |
| type of electrical connection for main current circuit   | flat connector   |

### Mechanical Design

|  |                |
|--|----------------|
| <b>height</b>  | 164 mm         |
| <b>width</b>   | 234 mm         |
| <b>depth</b>   | 94 mm          |
| <b>fastening method</b>  | screw fixing   |
| <b>fastening method</b>  |                |
| <ul style="list-style-type: none"> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul> | No<br>No<br>No |
| <b>mounting position</b>   | any            |
| <b>Net Weight</b>  | 3.472 kg       |

### Environmental conditions

|  |                 |
|--|-----------------|
| <b>ambient temperature during operation</b>                                |                 |
| <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul> | -25 °C<br>70 °C |
| <b>ambient temperature during storage</b>                                  |                 |
| <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul> | -50 °C<br>80 °C |

### Certificates

|  |   |
|--|---|
| <b>reference code according to IEC 81346-2</b> | Q |
|--|---|

### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|

[Environmental Con-  
firmations](#)

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[Miscellaneous](#)



### Maritime application



### 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=3KD4240-0PE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4240-0PE10-0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD4240-0PE10-0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4240-0PE10-0)

#### CAX-Online-Generator

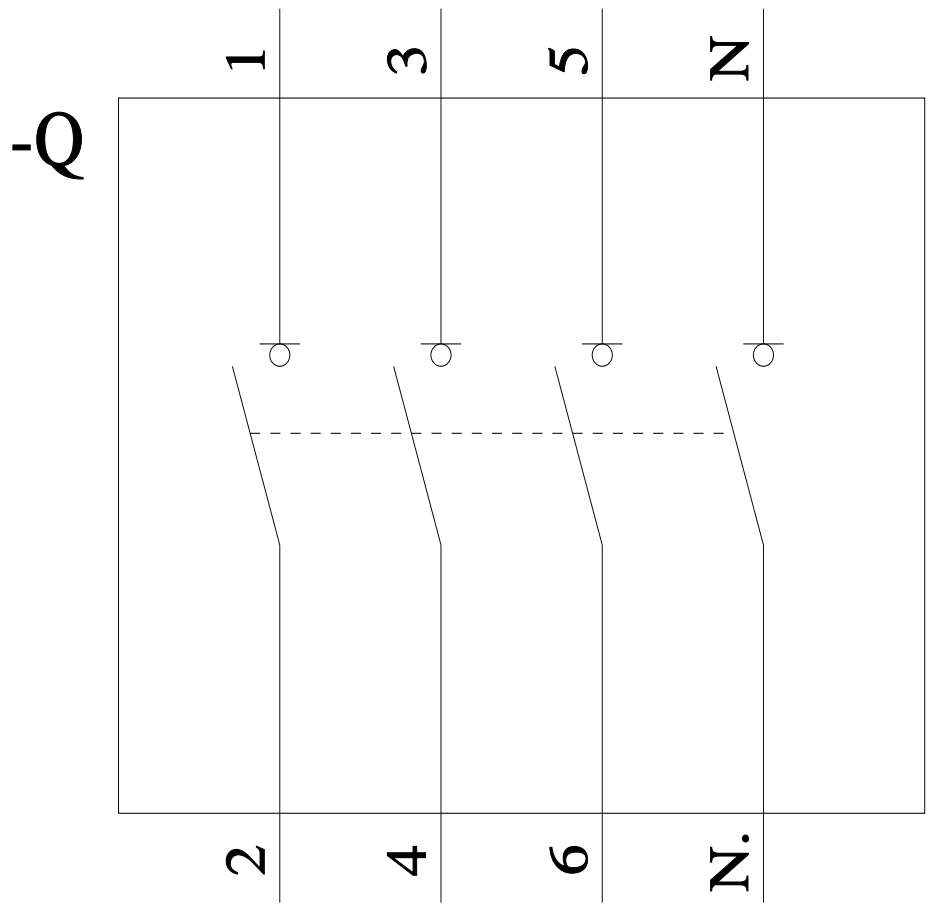
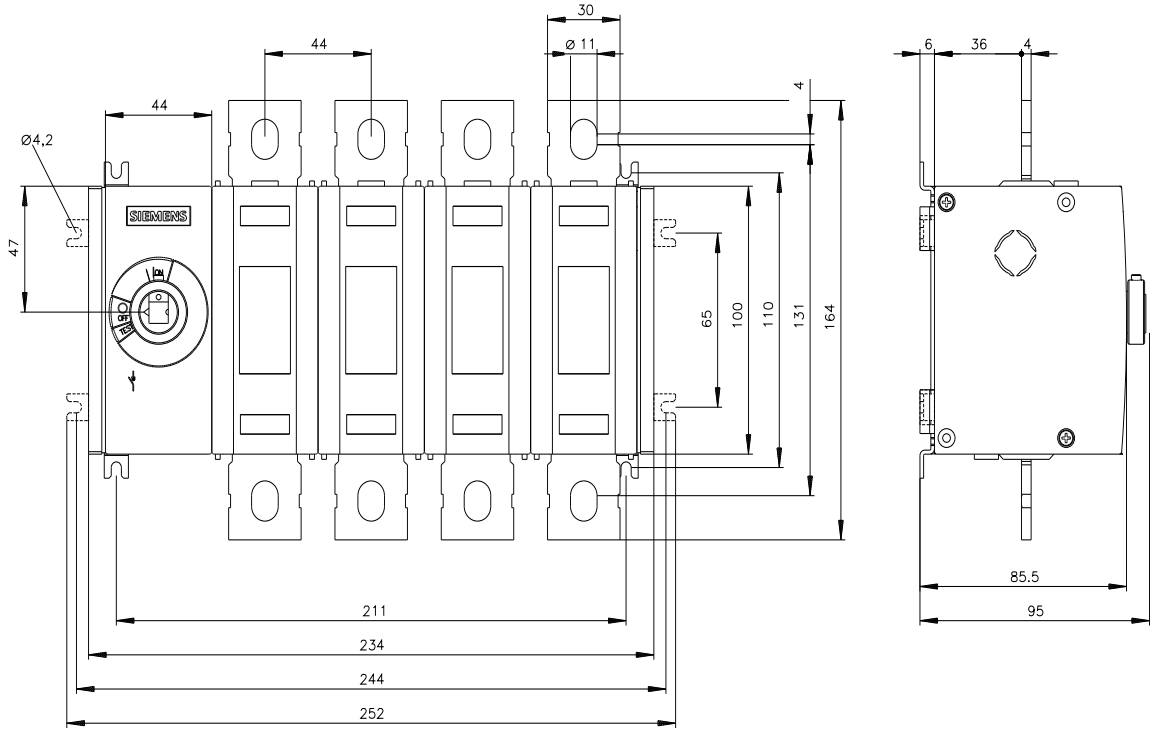
<https://www.siemens.com/cax>

#### Tender specifications

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

#### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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