



Switch disconnector 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 disconnector   |
| 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 disconnector                                                                   | 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 <sub>2t</sub> 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                                                                                       |                           |
| 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                                                          | 8 kV                      |
| operational current at AC-22 A at 1000 V maximum                                              | 63 A                      |
| let-through current of the fuse at 500 V maximum permissible                                  | 12 500 A                  |

|                                                                                     |                             |
|-------------------------------------------------------------------------------------|-----------------------------|
| let-through current of the gG fuse at 690 V maximum permissible                     | 14 700 A                    |
| <b>Supply voltage</b>                                                               |                             |
| operating voltage at AC rated value                                                 | 1 000 V                     |
| <b>Protection class</b>                                                             |                             |
| protection class IP                                                                 | IP20                        |
| protection class IP                                                                 |                             |
| • with closed switch with cover or cable lug cover                                  | IP20                        |
| • on the front                                                                      | IP20                        |
| <b>Dissipation</b>                                                                  |                             |
| power loss [W]                                                                      |                             |
| • with conventional rated thermal current per pole                                  | 1 W                         |
| • with conventional rated thermal current per device                                | 4 W                         |
| • for rated value of the current at AC in hot operating state per pole              | 1 W                         |
| <b>Main circuit</b>                                                                 |                             |
| operating power                                                                     |                             |
| • at AC-23 A at 500 V rated value                                                   | 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 main switch                                                     | Yes                         |
| suitability for use switch disconnector                                             | Yes                         |
| suitability for use EMERGENCY OFF switch                                            | No                          |
| suitability for use safety switch                                                   | Yes                         |
| suitability for use according to IEC 62626-1 safety switch                          | No                          |
| suitability for use maintenance/repair switch                                       | Yes                         |
| <b>Product details</b>                                                              |                             |
| product feature interlock                                                           | Yes                         |
| product component                                                                   |                             |
| • trip indicator                                                                    | No                          |
| • voltage trigger                                                                   | No                          |
| • undervoltage release                                                              | No                          |
| • undervoltage release with leading contact                                         | No                          |
| product extension auxiliary switch                                                  | Yes                         |
| product extension optional motor drive                                              | No                          |
| product extension optional voltage trigger                                          | No                          |
| <b>Short circuit</b>                                                                |                             |
| short-time withstand current (Icw) at 1000 V AC/440 V DC limited to 1 s rated value | 3 kA                        |
| short-circuit current making capacity (Icm) for switch disconnector                 |                             |
| • at 1000 V AC without fuse link rated value minimum                                | 7 kA                        |
| • at DC 440 V without fuse link rated value minimum                                 | 7 kA                        |
| • without fuse link rated value minimum                                             | 7 kA                        |
| conditional short-circuit current with line-side fuse protection                    |                             |
| • at 415 V by molded case circuit breaker rated value                               | 36 kA                       |
| • at 500 V by gG fuse rated value                                                   | 100 kA                      |
| • at 690 V by gG fuse rated value                                                   | 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                                        |                             |

|                                                                                                                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| • for copper busbar                                                                                                                                                               | '1 x (2 x 9 mm <sup>2</sup> )                                                       |                                                                                     |                                                                                     |                                                                                       |
| <b>type of connectable conductor cross-sections for copper conductor</b>                                                                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| • 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> )                                                      |                                                                                     |                                                                                     |                                                                                       |
| <b>type of electrical connection for main current circuit</b>                                                                                                                     | box terminal                                                                        |                                                                                     |                                                                                     |                                                                                       |
| <b>Mechanical Design</b>                                                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <b>height</b>                                                                                                                                                                     | 119 mm                                                                              |                                                                                     |                                                                                     |                                                                                       |
| <b>width</b>                                                                                                                                                                      | 112 mm                                                                              |                                                                                     |                                                                                     |                                                                                       |
| <b>depth</b>                                                                                                                                                                      | 87 mm                                                                               |                                                                                     |                                                                                     |                                                                                       |
| <b>fastening method</b>                                                                                                                                                           | Screw fixing and standard rail mounting 35 mm                                       |                                                                                     |                                                                                     |                                                                                       |
| <b>fastening method</b>                                                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| • 4-hole front mounting                                                                                                                                                           | No                                                                                  |                                                                                     |                                                                                     |                                                                                       |
| • front mounting with central attachment                                                                                                                                          | No                                                                                  |                                                                                     |                                                                                     |                                                                                       |
| • rail mounting                                                                                                                                                                   | Yes                                                                                 |                                                                                     |                                                                                     |                                                                                       |
| <b>mounting position</b>                                                                                                                                                          | any                                                                                 |                                                                                     |                                                                                     |                                                                                       |
| <b>Net Weight</b>                                                                                                                                                                 | 982 g                                                                               |                                                                                     |                                                                                     |                                                                                       |
| <b>Environmental conditions</b>                                                                                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <b>ambient temperature during operation</b>                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| • minimum                                                                                                                                                                         | -25 °C                                                                              |                                                                                     |                                                                                     |                                                                                       |
| • maximum                                                                                                                                                                         | 70 °C                                                                               |                                                                                     |                                                                                     |                                                                                       |
| <b>ambient temperature during storage</b>                                                                                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| • 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>                                                                                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|                                                                                                |  |  | <a href="#">Confirmation</a>                                                        | <a href="#">Miscellaneous</a>                                                         |
|                                                                                                | <a href="#">Type Test Certificates/Test Report</a>                                  |  |  |  |
| <a href="#">Confirmation</a>                                                                                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <b>other</b>                                                                                                                                                                      | <b>Environment</b>                                                                  |                                                                                     |                                                                                     |                                                                                       |
| <a href="#">Miscellaneous</a>                                                                                                                                                     | <a href="#">Environmental Confirmations</a>                                         | <a href="#">Environmental Confirmations</a>                                         |                                                                                     |                                                                                       |
| <b>Further information</b>                                                                                                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Information on the packaging                                                                                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Information for data generation and storage                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Information- and Downloadcenter (Catalogs, Brochures,...)                                                                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <a href="https://www.siemens.com/lowvoltage/catalogs">https://www.siemens.com/lowvoltage/catalogs</a>                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Industry Mall (Online ordering system)                                                                                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD2642-2ME10-0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD2642-2ME10-0</a> |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)                                                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| <a href="https://support.industry.siemens.com/cs/ww/en/ps/3KD2642-2ME10-0">https://support.industry.siemens.com/cs/ww/en/ps/3KD2642-2ME10-0</a>                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                       |

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

CAx-Online-Generator

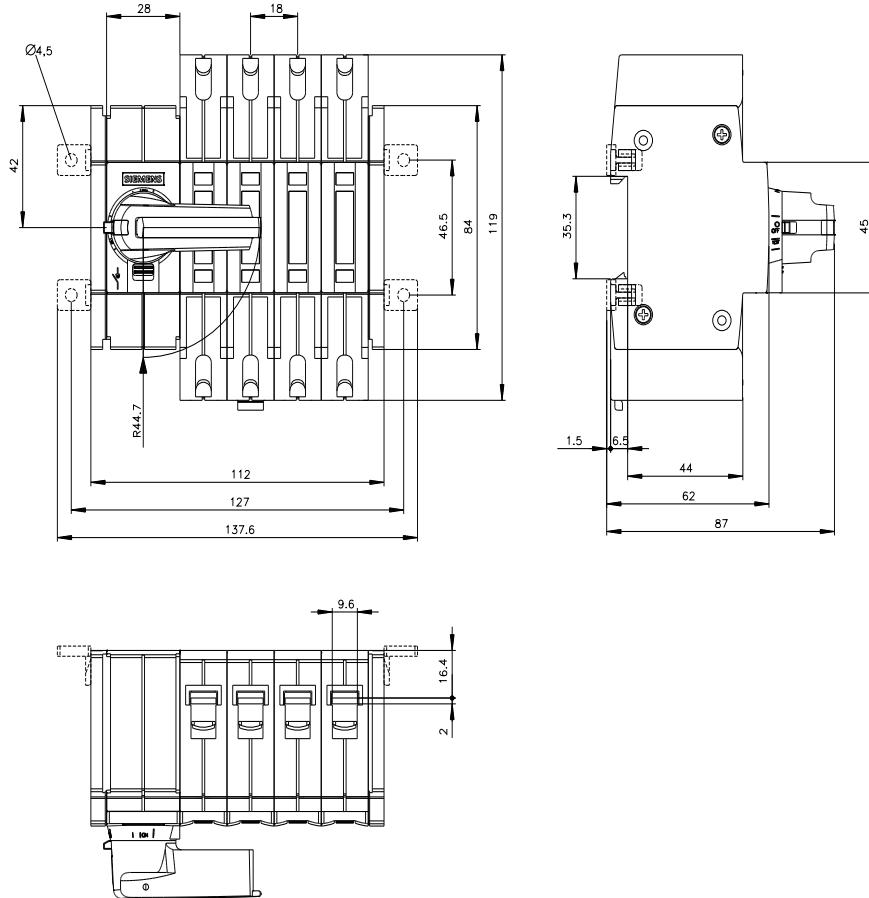
<https://www.siemens.com/cax>

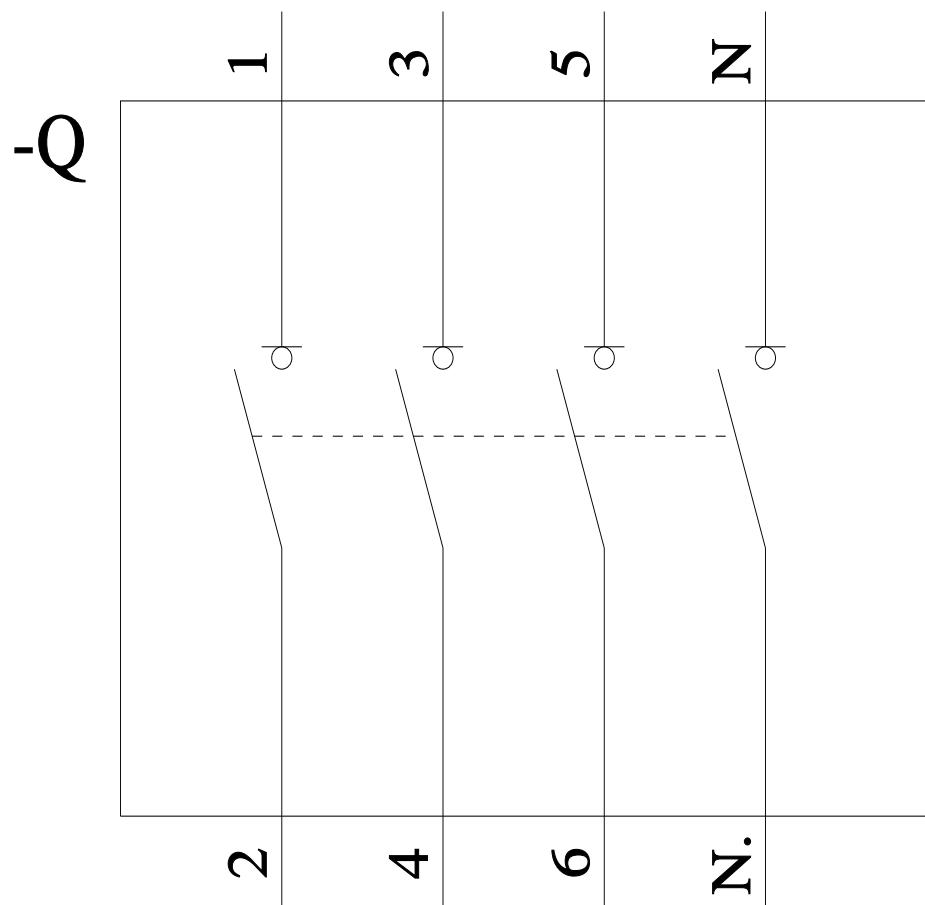
Tender specifications

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

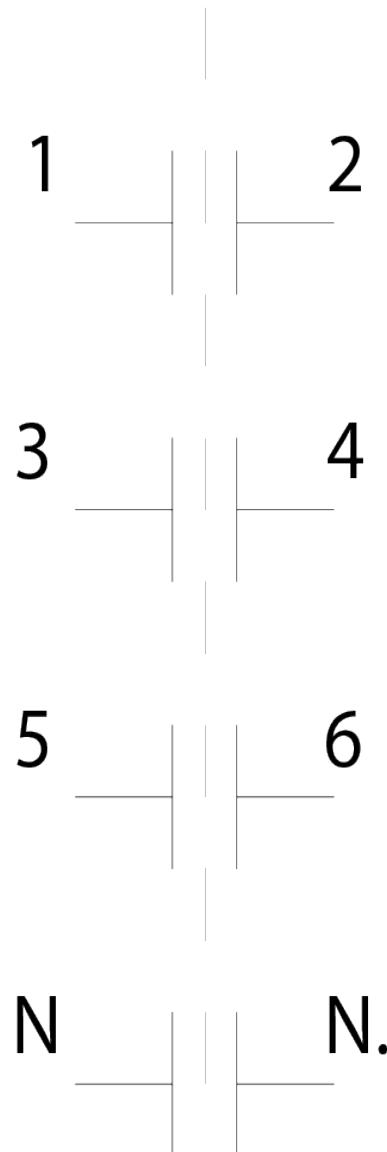
Characteristic curves

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





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