



SWITCH-DISCONNECTOR 16A, FRAME SIZE 1,  
4-POLE FRONT OPERATING LEFT COMPLETE  
ASSEMBLY WITH DIRECT HANDLE GREY BOX  
TERMINAL

Similar to image

| General technical details:  |   |                          |
|-----------------------------|---|--------------------------|
| product brand name          |   | SENTRON                  |
| Product designation         |   | Switching device         |
| Design of the product       |   | 3KD Switch Disconnectors |
| Size of switch disconnector |   | 1                        |
| Number of poles             |   | 4                        |
| Continuous current          |   |                          |
| • rated value               | A | 16                       |
| • at 40 °C / rated value    | A | 16                       |
| • at 45 °C / rated value    | A | 16                       |
| • at 50 °C / rated value    | A | 16                       |
| • at 55 °C / rated value    | A | 16                       |
| • at 60 °C / rated value    | A | 16                       |
| • at 65 °C / rated value    | A | 16                       |
| • at 70 °C / rated value    | A | 16                       |
| • at DC / rated value       | A | 16                       |
| Operating current           |   |                          |
| • at AC-21 A                |   |                          |
| • at 400 V / maximum        | A | 16                       |

|                                                                                                                                     |                   |        |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
| • at 500 V / maximum                                                                                                                | A                 | 16     |
| • at 690 V / maximum                                                                                                                | A                 | 16     |
| • at AC-22 A                                                                                                                        |                   |        |
| • at 400 V / at 50/60 Hz / rated value / maximum                                                                                    | A                 | 16     |
| • at 500 V / at 50/60 Hz / rated value / maximum                                                                                    | A                 | 16     |
| • at 690 V / at 50/60 Hz / rated value / maximum                                                                                    | A                 | 16     |
| • at AC-23 A                                                                                                                        |                   |        |
| • at 400 V / at 50/60 Hz / rated value / maximum                                                                                    | A                 | 16     |
| • at 500 V / at 50/60 Hz / rated value / maximum                                                                                    | A                 | 16     |
| • at 690 V / at 50/60 Hz / rated value / maximum                                                                                    | A                 | 16     |
| <b>Operational voltage</b>                                                                                                          |                   |        |
| • at 50/60 Hz / for AC / rated value                                                                                                | V                 | 690    |
| • with 3 current paths in series / with DC / rated value                                                                            | V                 | 440    |
| <b>Insulation voltage / rated value</b>                                                                                             | V                 | 1,000  |
| <b>Impulse voltage resistance / rated value</b>                                                                                     | kV                | 8      |
| <b>Overvoltage class</b>                                                                                                            |                   | III    |
| <b>Operating power / at AC-23 A</b>                                                                                                 |                   |        |
| • at 400 V / at 50/60 Hz / rated value                                                                                              | kW                | 7.5    |
| • at 500 V / at 50/60 Hz / rated value                                                                                              | kW                | 7.5    |
| • at 690 V / at 50/60 Hz / rated value                                                                                              | kW                | 11     |
| <b>I<sup>2</sup>t value / with closed switch</b>                                                                                    |                   |        |
| • for combination switch + fuse                                                                                                     |                   |        |
| • at 400 V / maximum                                                                                                                | A <sup>2</sup> ·s | 13,300 |
| • at 500 V / maximum                                                                                                                | A <sup>2</sup> ·s | 13,300 |
| • at 690 V                                                                                                                          |                   |        |
| • for combination switch +gG fuse / maximum                                                                                         | A <sup>2</sup> ·s | 13,700 |
| <b>Let-through current / with closed switch</b>                                                                                     |                   |        |
| • for combination switch + fuse                                                                                                     |                   |        |
| • at 400 V / maximum permissible                                                                                                    | A                 | 7,000  |
| • at 500 V / maximum permissible                                                                                                    | A                 | 7,000  |
| • at 690 V                                                                                                                          |                   |        |
| • with combination switch +aM fuse / maximum permissible                                                                            | A                 | 7,500  |
| <b>Short-time current resistance (I<sub>cw</sub>) / limited to 1 s / rated value</b>                                                | kA                | 3      |
| <b>Making capacity short-circuit current (I<sub>cm</sub>) / for switch disconnecter / without fuse link / rated value / minimum</b> | kA                | 7      |
| <b>Conditional short-circuit current / with line-side fuse protection</b>                                                           |                   |        |
| • at 500 V / by gG fuse / rated value                                                                                               | kA                | 100    |
| • at 690 V / by gG fuse / rated value                                                                                               | kA                | 100    |
| <b>Active power loss / with conventional rated thermal current / per pole</b>                                                       | W                 | 0.2    |

|                                                                                                                                                                                                                                                                                          |    |                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Product equipment / interlock</b>                                                                                                                                                                                                                                                     |    | Yes                                                                                                                            |
| <b>Type of the driving mechanism / motor drive</b>                                                                                                                                                                                                                                       |    | No                                                                                                                             |
| <b>Product extension / optional / motor drive</b>                                                                                                                                                                                                                                        |    | No                                                                                                                             |
| <b>Design of the electrical connection / for main current circuit</b>                                                                                                                                                                                                                    |    | Box terminal                                                                                                                   |
| <b>Type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for copper conductor <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• finely stranded / with end sleeve</li> </ul> </li> <li>• with flexible busbar</li> </ul> |    | 1x (1 ... 16mm <sup>2</sup> )<br>1x (6 ... 35mm <sup>2</sup> )<br>1x (1 ... 35mm <sup>2</sup> )<br>2x (0.8x9 mm <sup>2</sup> ) |
| <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 changeover contacts / for auxiliary contacts</b>                                                                                                                                                                                                                  |    | 0                                                                                                                              |
| <b>Product extension / auxiliary switch</b>                                                                                                                                                                                                                                              |    | Yes                                                                                                                            |
| <b>Number of NC contacts / for auxiliary contacts</b>                                                                                                                                                                                                                                    |    | 0                                                                                                                              |
| <b>Number of NO contacts / for auxiliary contacts</b>                                                                                                                                                                                                                                    |    | 0                                                                                                                              |
| <b>Number of changeover contacts / for auxiliary contacts</b>                                                                                                                                                                                                                            |    | 4                                                                                                                              |
| <b>Acceptability for application / switch disconnecter</b>                                                                                                                                                                                                                               |    | Yes                                                                                                                            |
| <b>Acceptability for application</b> <ul style="list-style-type: none"> <li>• emergency stop switch</li> <li>• main switch</li> <li>• safety cut-out switch</li> <li>• maintenance/repair switch</li> </ul>                                                                              |    | No<br>Yes<br>Yes<br>Yes                                                                                                        |
| <b>Design of the operating mechanism</b>                                                                                                                                                                                                                                                 |    | manual operating mechanism                                                                                                     |
| <b>Mounting type</b>                                                                                                                                                                                                                                                                     |    | Floor mounting and snap-on mounting to 35 mm standard mounting rail                                                            |
| <b>Mounting type / rail mounting</b>                                                                                                                                                                                                                                                     |    | Yes                                                                                                                            |
| <b>Mounting type / front mounting with 4-hole attachment</b>                                                                                                                                                                                                                             |    | No                                                                                                                             |
| <b>Mounting type / front mounting with central attachment</b>                                                                                                                                                                                                                            |    | No                                                                                                                             |
| <b>Type from device</b>                                                                                                                                                                                                                                                                  |    | fixed mounting                                                                                                                 |
| <b>mounting position</b>                                                                                                                                                                                                                                                                 |    | any                                                                                                                            |
| <b>Position / of switch operating mechanism</b>                                                                                                                                                                                                                                          |    | at the left end                                                                                                                |
| <b>Design of handle</b>                                                                                                                                                                                                                                                                  |    | direct handle, grey                                                                                                            |
| <b>Width</b>                                                                                                                                                                                                                                                                             | mm | 112                                                                                                                            |
| <b>Height</b>                                                                                                                                                                                                                                                                            | mm | 119                                                                                                                            |
| <b>Depth</b>                                                                                                                                                                                                                                                                             | mm | 87                                                                                                                             |
| <b>Protection class IP</b> <ul style="list-style-type: none"> <li>• on the front</li> <li>• with closed switch / with cover or cable lug cover</li> </ul>                                                                                                                                |    | IP20<br>IP20<br>IP20                                                                                                           |

|                                                                                                                                     |    |             |
|-------------------------------------------------------------------------------------------------------------------------------------|----|-------------|
| <b>Ambient temperature</b><br>• during operating<br>• during storage                                                                | °C | -25 ... +70 |
|                                                                                                                                     | °C | -50 ... +80 |
| <b>Degree of pollution</b>                                                                                                          |    | 3           |
| <b>Mechanical operating cycles as operating time / typical</b>                                                                      |    | 15,000      |
| <b>Electrical endurance (switching cycles)</b><br>• at AC-23 A / at 690 V / at 50/60 Hz<br>• at DC-23 A<br>• at 220 V<br>• at 440 V |    | 6,000       |
|                                                                                                                                     |    | 1,500       |
|                                                                                                                                     |    | 1,500       |
|                                                                                                                                     |    | 1,500       |
| <b>Design of display</b><br>• for switch position indicator manual operation                                                        |    | ON-OFF-TEST |
| <b>Net weight</b>                                                                                                                   | g  | 800         |
| <b>Reference code / according to DIN EN 61346-2</b>                                                                                 |    | Q           |
| <b>Item designation / according to DIN EN 81346-2</b>                                                                               |    | Q           |

#### Certificates/approvals:

General Product  
Approval

Declaration of Conformity



#### Further information:

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD1642-2ME10-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD1642-2ME10-0/all>

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

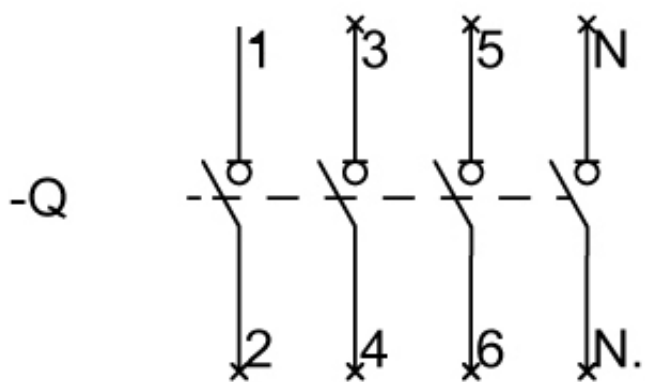
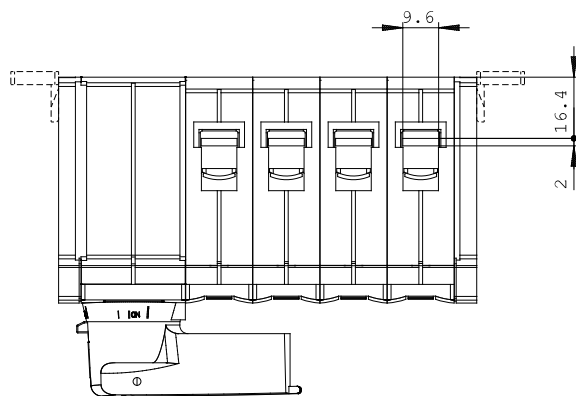
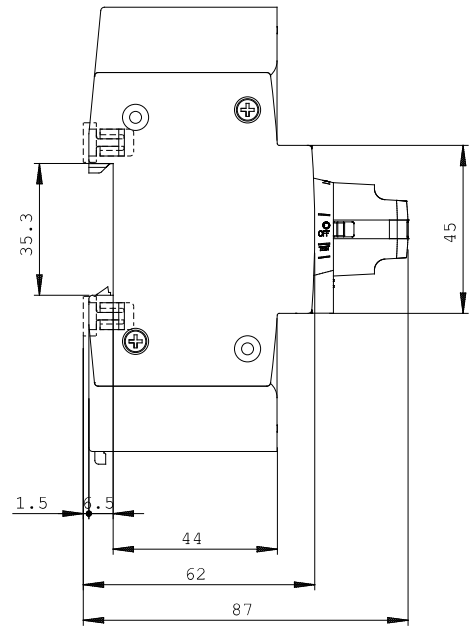
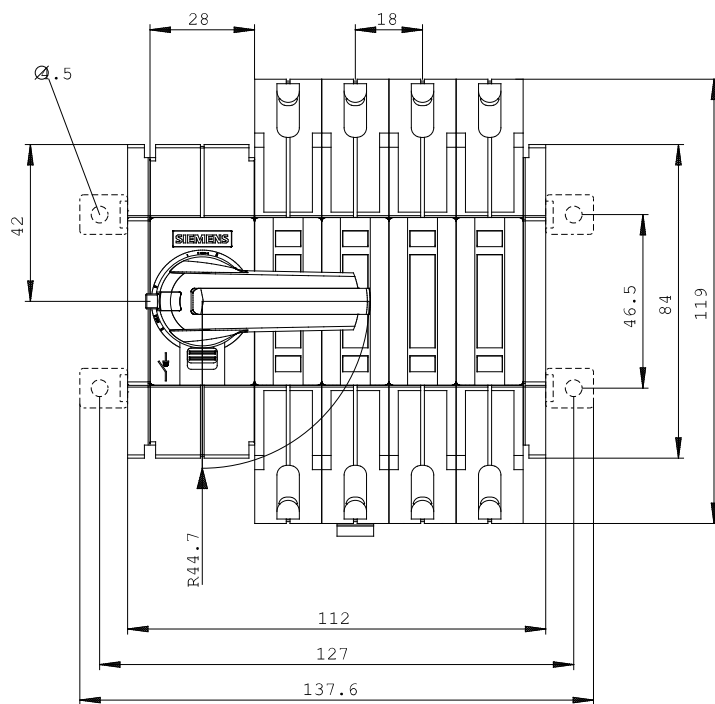
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD1642-2ME10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1642-2ME10-0)

**CAX-Online-Generator**

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

**Tender specifications**

[Datanorm](#) [GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)



**last change:**

Apr 21, 2014