

Switch disconnecter 63 A, Size 1, 3-pole Front operating mechanism center Basic unit without handle Box 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 operating mechanism                                                        | Without handle          |
| Type of the driving mechanism / motor drive                                              | No                      |

| General technical data                                                                                                                           |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Number of poles                                                                                                                                  | 3                        |
| Type of device                                                                                                                                   | fixed mounting           |
| Size of switch disconnecter                                                                                                                      | 1                        |
| Electrical endurance (switching cycles)                                                                                                          |                          |
| <ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / at 50/60 Hz</li> </ul>                                                            | 6 000                    |
| <ul style="list-style-type: none"> <li>at DC-23 A / at 440 V</li> </ul>                                                                          | 1 500                    |
| <ul style="list-style-type: none"> <li>I<sup>2</sup>t value / with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul> | 13 300 A <sup>2</sup> ·s |
| <ul style="list-style-type: none"> <li>I<sup>2</sup>t value / with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul> | 13 300 A <sup>2</sup> ·s |

|                                                                                          |                          |
|------------------------------------------------------------------------------------------|--------------------------|
| • I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 13 700 A <sup>2</sup> ·s |
| • I2t value / of the fuse / at 500 V / maximum permissible                               | 26 505 A <sup>2</sup> ·s |
| • I2t value / of the gG fuse / at 690 V / maximum permissible                            | 24 005 A <sup>2</sup> ·s |
| circuit-breaker / Design                                                                 | 3KD2                     |
| Mechanical service life (switching cycles) / typical                                     | 15 000                   |
| Position / of the switch operating mechanism                                             | after the first pole     |
| Overvoltage category                                                                     | III                      |

## Voltage

|                                                                                  |           |
|----------------------------------------------------------------------------------|-----------|
| Operating voltage / with current paths in series                                 |           |
| • with degree of pollution 2 / at DC / rated value / Note                        | 440 V / 3 |
| • with degree of pollution 3 / at DC / rated value / Note                        | 440 / 3   |
| Insulation voltage                                                               |           |
| • rated value                                                                    | 1 000 V   |
| Surge voltage resistance / rated value                                           | 8 kV      |
| Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz | 10 %      |

## 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                         | 1 W |
| • with conventional rated thermal current / per device                       | 3 W |
| • for rated value of the current / at AC / in hot operating state / per pole | 1 W |

## Electricity

|                                                               |      |
|---------------------------------------------------------------|------|
| Operating current                                             |      |
| • at AC-21 A / at 400 V / maximum                             | 63 A |
| • at AC-21 A / at 500 V / maximum                             | 63 A |
| • at AC-21 A / at 690 V / maximum                             | 63 A |
| • at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum | 63 A |

|                                                                       |         |
|-----------------------------------------------------------------------|---------|
| • at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum         | 63 A    |
| • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum         | 63 A    |
| • at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum         | 63 A    |
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum         | 63 A    |
| • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum         | 63 A    |
| • at DC-23 A / at 440 V / rated value / maximum                       | 63 / 3  |
| • at DC-23 A / at 220 V / rated value / maximum                       | 63 / 2  |
| • at DC-22 A / at 440 V / rated value / maximum                       | 63 / 3  |
| • at DC-22 A / at 220 V / rated value / maximum                       | 63 / 2  |
| • at DC-21 A / at 440 V / rated value / maximum                       | 63 / 3  |
| • at DC-21 A / at 220 V / maximum                                     | 63 / 2  |
| Current / at AC / rated value                                         | 63 A    |
| Continuous current                                                    |         |
| • rated value                                                         | 63 A    |
| • at 40 °C / rated value                                              | 63 A    |
| • at 45 °C / rated value                                              | 63 A    |
| • at 50 °C / rated value                                              | 63 A    |
| • at 55 °C / rated value                                              | 63 A    |
| • at 60 °C / rated value                                              | 63 A    |
| • at 65 °C / rated value                                              | 63 A    |
| • at 70 °C / rated value                                              | 63 A    |
| Continuous current / at DC / rated value                              | 63 A    |
| Let-through current / of the fuse / at 500 V / maximum permissible    | 8 135 A |
| Let-through current / of the gG fuse / at 690 V / maximum permissible | 8 805 A |
| Let-through current / with closed switch                              |         |
| • at 690 V / for combination switch + gG fuse / maximum permissible   | 7 500 A |
| • for combination switch + fuse / at 400 V / maximum permissible      | 7 000 A |
| • for combination switch + fuse / at 500 V / maximum permissible      | 7 000 A |
| Short-time current resistance (I <sub>cw</sub> )                      |         |
| • at 690 V AC/440 V DC / limited to 1 s / rated value                 | 3 kA    |
| <b>Main circuit</b>                                                   |         |
| Operating power                                                       |         |

|                                                     |       |
|-----------------------------------------------------|-------|
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value | 30 kW |
| • at AC-23 A / at 500 V / at 50/60 Hz / rated value | 37 kW |
| • at AC-23 A / at 690 V / at 50/60 Hz / rated value | 55 kW |
| Operating voltage                                   |       |
| • at AC / at 50/60 Hz / rated value                 | 690 V |

#### 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 |

#### Suitability

|                             |     |
|-----------------------------|-----|
| <b>Suitability for use</b>  |     |
| • Main switch               | Yes |
| • switch disconnecter       | Yes |
| • EMERGENCY OFF switch      | Yes |
| • safety switch             | Yes |
| • maintenance/repair switch | Yes |

#### Product details

|                                             |     |
|---------------------------------------------|-----|
| Product feature / interlock                 | No  |
| Product component                           |     |
| • Trip indicator                            | No  |
| • Voltage trigger                           | No  |
| • undervoltage release                      | No  |
| • undervoltage release with leading contact | No  |
| Product extension                           |     |
| • Auxiliary switch                          | Yes |
| • optional                                  |     |
| — motor drive                               | No  |
| — Voltage trigger                           | No  |

#### Short circuit

|                                                                                              |      |
|----------------------------------------------------------------------------------------------|------|
| Short-circuit current making capacity (Icm)                                                  |      |
| • for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum | 7 kA |
| • for switch disconnecter / without fuse link / rated value / minimum                        | 7 kA |

|                                                                                                                    |                                               |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Conditional short-circuit current / with line-side fuse protection                                                 |                                               |
| • at 500 V / by gG fuse / rated value                                                                              | 100 kA                                        |
| <b>Connections</b>                                                                                                 |                                               |
| • Type of connectable conductor cross-sections / for copper conductor / solid                                      | 1x (1 ... 16 mm <sup>2</sup> )                |
| • Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing | 1x (1 ... 35 mm <sup>2</sup> )                |
| • Type of connectable conductor cross-sections / for copper conductor / stranded                                   | 1x (6 ... 35 mm <sup>2</sup> )                |
| <b>Type of electrical connection</b>                                                                               |                                               |
| • for main current circuit                                                                                         | box terminal                                  |
| <b>Mechanical Design</b>                                                                                           |                                               |
| Height                                                                                                             | 119 mm                                        |
| Width                                                                                                              | 94 mm                                         |
| Depth                                                                                                              | 68 mm                                         |
| Mounting position                                                                                                  | any                                           |
| Mounting type                                                                                                      | Screw fixing and standard rail mounting 35 mm |
| Mounting type                                                                                                      |                                               |
| • front mounting with 4-hole attachment                                                                            | No                                            |
| • front mounting with central attachment                                                                           | No                                            |
| • rail mounting                                                                                                    | Yes                                           |
| Net weight                                                                                                         | 720 g                                         |
| <b>Environmental conditions</b>                                                                                    |                                               |
| Degree of pollution                                                                                                | 3                                             |
| Ambient temperature                                                                                                |                                               |
| • during operation / minimum                                                                                       | -25 °C                                        |
| • during operation / maximum                                                                                       | 70 °C                                         |
| • during storage / minimum                                                                                         | -50 °C                                        |
| • during storage / maximum                                                                                         | 80 °C                                         |
| <b>Certificates</b>                                                                                                |                                               |
| Reference code                                                                                                     |                                               |
| • acc. to DIN EN 61346-2                                                                                           | Q                                             |
| • acc. to DIN EN 81346-2                                                                                           | Q                                             |

| General Product Approval                                                          |                                                                                   | Declaration of Conformity                                                         | Shipping Approval                                                                   | other |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
|  |  |  |  |       |
| CCC                                                                               | VDE                                                                               | EG-Konf.                                                                          | LRS                                                                                 |       |

[Miscellaneous](#)

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#### Further information

**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=3KD2630-2ME20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD2630-2ME20-0>

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

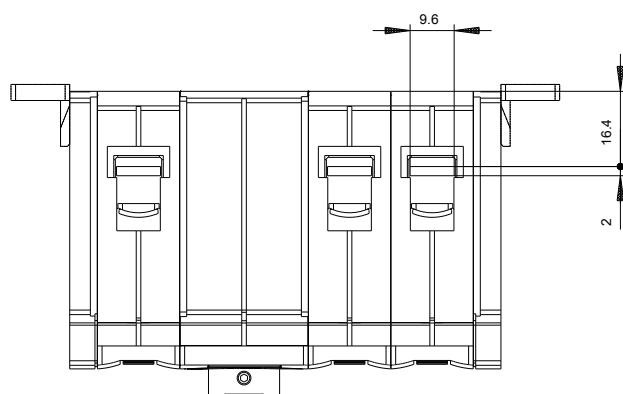
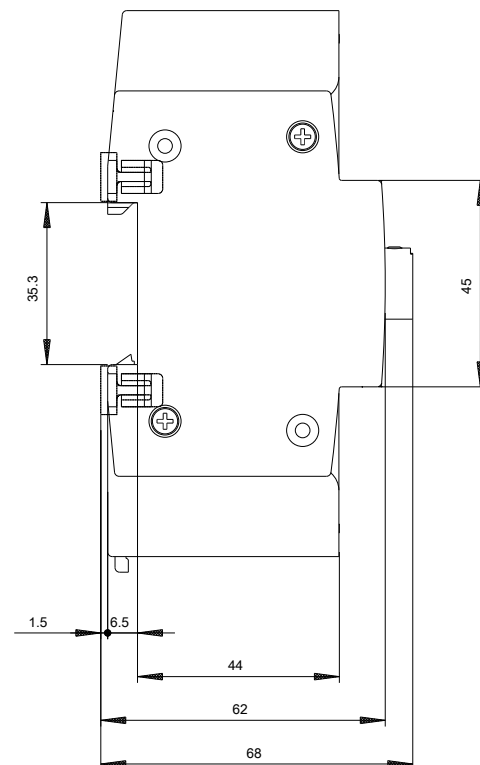
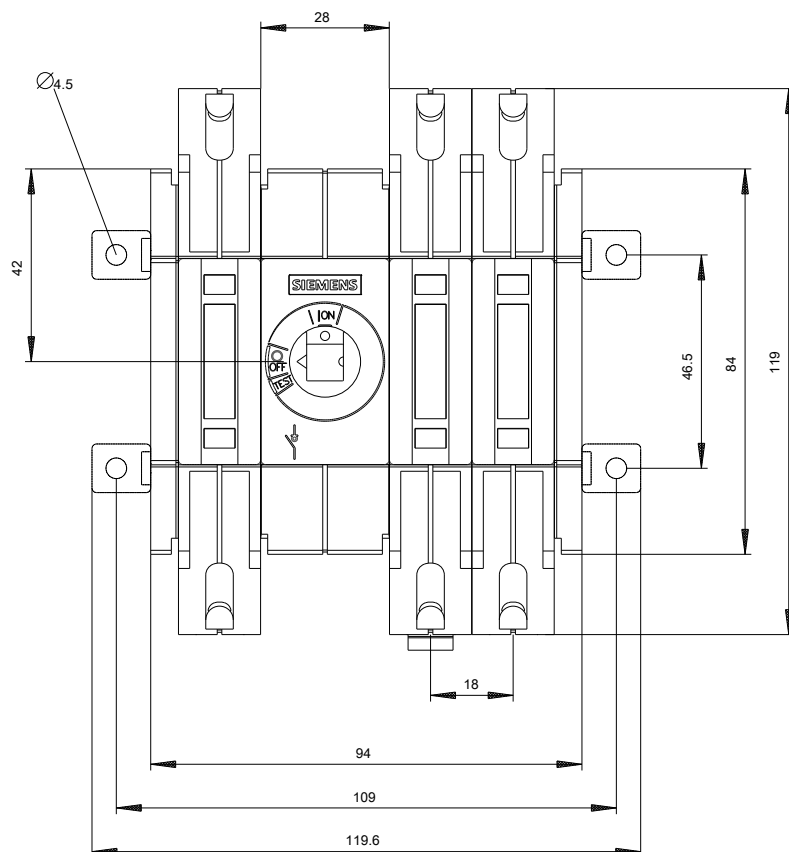
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD2630-2ME20-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2630-2ME20-0)

**CAX-Online-Generator**

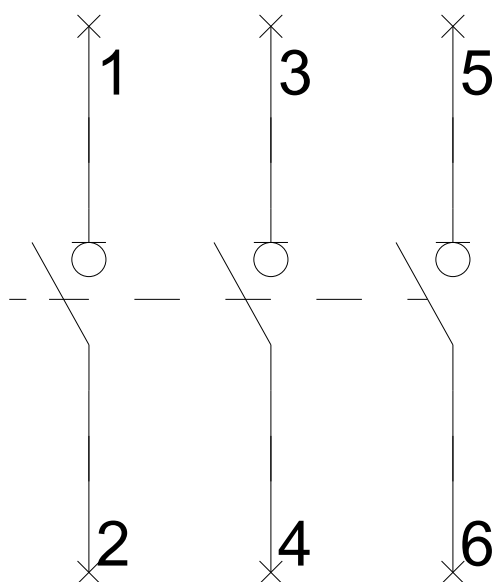
<http://www.siemens.com/cax>

**Tender specifications**

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



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