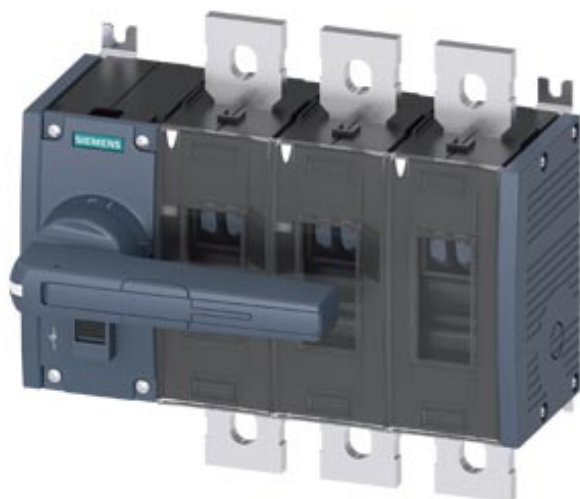


Switch disconnecter 800 A, Size 4, 3-pole Front operating mechanism left Complete unit with direct operating mechanism gray flat terminal



| 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 operating mechanism                                                                  | 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                                                                                    | 3                            |
| Type of device                                                                                     | fixed mounting               |
| Size of switch disconnecter                                                                        | 4                            |
| Electrical endurance (switching cycles)                                                            |                              |
| • at AC-23 A / at 690 V / at 50/60 Hz                                                              | 500                          |
| • at DC-23 A / at 440 V                                                                            | 500                          |
| • I <sup>2</sup> t value / with closed switch / for combination switch + fuse / at 500 V / maximum | 15 125 000 A <sup>2</sup> ·s |

|                                                                                                                                            |                              |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <ul style="list-style-type: none"> <li>• I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>    | 15 125 000 A <sup>2</sup> ·s |
| <ul style="list-style-type: none"> <li>• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul> | 7 810 000 A <sup>2</sup> ·s  |
| <ul style="list-style-type: none"> <li>• I2t value / of the fuse / at 500 V / maximum permissible</li> </ul>                               | 10 400 005 A <sup>2</sup> ·s |
| circuit-breaker / Design                                                                                                                   | 3KD4                         |
| Mechanical service life (switching cycles) / typical                                                                                       | 8 000                        |
| Position / of the switch operating mechanism                                                                                               | at the left end              |
| Overvoltage category                                                                                                                       | IV                           |
| Degree of pollution                                                                                                                        | 3                            |

## Voltage

|                                                                                                      |           |
|------------------------------------------------------------------------------------------------------|-----------|
| Operating voltage / with current paths in series                                                     |           |
| <ul style="list-style-type: none"> <li>• with degree of pollution 2 / at DC / rated value</li> </ul> | 440 V / 3 |
| Insulation voltage                                                                                   |           |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                      | 1 000 V   |
| Surge voltage resistance / rated value                                                               | 12 kV     |
| Current / at AC / rated value                                                                        | 800 A     |
| Operating voltage                                                                                    |           |
| <ul style="list-style-type: none"> <li>• at AC / at 50/60 Hz / rated value</li> </ul>                | 1 000 V   |

## Protection class

|                                                                                                        |      |
|--------------------------------------------------------------------------------------------------------|------|
| Protection class IP                                                                                    | IP00 |
| Protection class IP                                                                                    |      |
| <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 |

## Dissipation

|                                                                                                                                |      |
|--------------------------------------------------------------------------------------------------------------------------------|------|
| Power loss [W]                                                                                                                 |      |
| <ul style="list-style-type: none"> <li>• with conventional rated thermal current / per pole</li> </ul>                         | 25 W |
| <ul style="list-style-type: none"> <li>• with conventional rated thermal current / per device</li> </ul>                       | 75 W |
| <ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul> | 25 W |

## Current

|                                                                                                                 |       |
|-----------------------------------------------------------------------------------------------------------------|-------|
| Operating current                                                                                               |       |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 400 V / maximum</li> </ul>                             | 800 A |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 500 V / maximum</li> </ul>                             | 800 A |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 690 V / maximum</li> </ul>                             | 800 A |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum</li> </ul> | 800 A |

|                                                                                                                       |           |
|-----------------------------------------------------------------------------------------------------------------------|-----------|
| <ul style="list-style-type: none"> <li>• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum</li> </ul>       | 800 A     |
| <ul style="list-style-type: none"> <li>• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum</li> </ul>       | 800 A     |
| <ul style="list-style-type: none"> <li>• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>       | 800 A     |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum</li> </ul>       | 800 A     |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>       | 800 A     |
| Continuous current                                                                                                    |           |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                                       | 800 A     |
| <ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>                                            | 800 A     |
| <ul style="list-style-type: none"> <li>• at 45 °C / rated value</li> </ul>                                            | 800 A     |
| <ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>                                            | 800 A     |
| <ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>                                            | 800 A     |
| <ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>                                            | 630 A     |
| <ul style="list-style-type: none"> <li>• at 65 °C / rated value</li> </ul>                                            | 630 A     |
| <ul style="list-style-type: none"> <li>• at 70 °C / rated value</li> </ul>                                            | 630 A     |
| Continuous current / at DC / rated value                                                                              | 800 A     |
| Let-through current / of the fuse / at 500 V / maximum permissible                                                    | 118 000 A |
| Let-through current / of the gG fuse / at 690 V / maximum permissible                                                 | 90 600 A  |
| Let-through current / with closed switch                                                                              |           |
| <ul style="list-style-type: none"> <li>• at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul> | 67 950 A  |
| <ul style="list-style-type: none"> <li>• for combination switch + fuse / at 400 V / maximum permissible</li> </ul>    | 92 800 A  |
| <ul style="list-style-type: none"> <li>• for combination switch + fuse / at 500 V / maximum permissible</li> </ul>    | 92 800 A  |

## Main circuit

|                                                                                                       |        |
|-------------------------------------------------------------------------------------------------------|--------|
| Operating power                                                                                       |        |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / at 50/60 Hz / rated value</li> </ul> | 400 kW |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 500 V / at 50/60 Hz / rated value</li> </ul> | 560 kW |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / at 50/60 Hz / rated value</li> </ul> | 800 kW |

## 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 | 0 |
| Number of NC contacts / for auxiliary contacts | 8 |
| Number of NO contacts / for auxiliary contacts | 8 |

## Suitability

### Suitability for use

|                             |     |
|-----------------------------|-----|
| • Main switch               | Yes |
| • switch disconnecter       | Yes |
| • EMERGENCY OFF switch      | No  |
| • safety switch             | Yes |
| • maintenance/repair switch | Yes |

## Product details

|                                             |     |
|---------------------------------------------|-----|
| 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 |
| • optional                                  |     |
| — motor drive                               | No  |
| — Voltage trigger                           | No  |

## Short circuit

|                                                                                                                                                 |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Short-time withstand current (I <sub>cw</sub> ) / at AC 1000 V/DC 440 V / limited to 1 s / rated value                                          | 30 kA   |
| • Making capacity short-circuit current (I <sub>cm</sub> ) / for switch disconnecter / at AC 1000 V / without fuse link / rated value / minimum | 80 kA   |
| • Making capacity short-circuit current (I <sub>cm</sub> ) / for switch disconnecter / at DC 440 V / without fuse link / rated value / minimum  | 42.6 kA |
| • Short-circuit current making capacity (I <sub>cm</sub> ) / for switch disconnecter / without fuse link / rated value / minimum                | 80 kA   |
| Conditional short-circuit current / with line-side fuse protection                                                                              |         |
| • at 500 V / by gG fuse / rated value                                                                                                           | 100 kA  |
| • at 690 V / by gG fuse / rated value                                                                                                           | 100 kA  |

## Connections

|                                                                                               |                                                                    |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| • Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug | 1x (25 ... 240 mm <sup>2</sup> ), 2x (25 ... 240 mm <sup>2</sup> ) |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|

|                                                                                                                                                                 |                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235</li> </ul> | 1x (25 ... 240 mm <sup>2</sup> ), 2x (25 ... 240 mm <sup>2</sup> ) |
| <b>Type of electrical connection</b> <ul style="list-style-type: none"> <li>for main current circuit</li> </ul>                                                 | flat connector                                                     |

| Mechanical Design                                                                                                                                                            |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Height                                                                                                                                                                       | 235 mm                                      |
| Width                                                                                                                                                                        | 260 mm                                      |
| Depth                                                                                                                                                                        | 166.5 mm                                    |
| Mounting type                                                                                                                                                                | screw fixing                                |
| Mounting type <ul style="list-style-type: none"> <li>front mounting with 4-hole attachment</li> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul> | No<br>No<br>No                              |
| Mounting position                                                                                                                                                            | any                                         |
| Net weight <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>                                                                        | 7 540 g<br>-25 ... +70 °C<br>-50 ... +80 °C |

| Certificates                                                                                                            |        |
|-------------------------------------------------------------------------------------------------------------------------|--------|
| Reference code <ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to DIN EN 81346-2</li> </ul> | Q<br>Q |

| General Product Approval | Declaration of Conformity | Shipping Approval | other |
|--------------------------|---------------------------|-------------------|-------|
|--------------------------|---------------------------|-------------------|-------|



[Miscellaneous](#)



[Miscellaneous](#)

## 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=3KD4832-0QE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4832-0QE10-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD4832-0QE10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4832-0QE10-0)

### CAX-Online-Generator

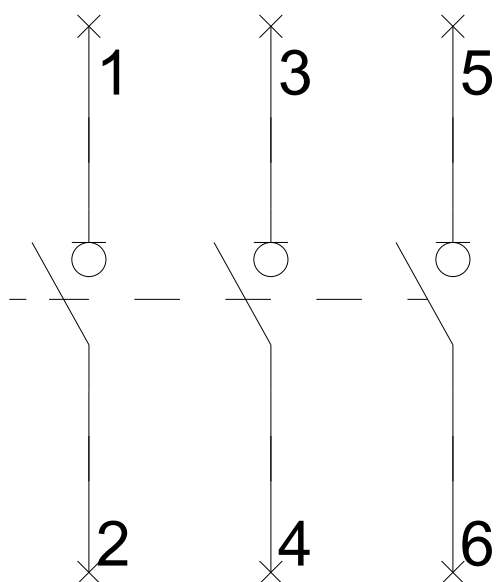
<http://www.siemens.com/cax>

### Tender specifications

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



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# -CR

