SIEMENS

## Data sheet 3KD4030-0PE10-0

Switch disconnector 315 A, Size 3, 3-pole Front operating mechanism left Basic unit without handle flat terminal



| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | 3KD switch disconnector |
| **design of the product** | Switch |
| **display version for switch position indicator door-coupling rotary operating mechanism** | ON-OFF |
| **design of the actuating element** | Without handle |
| **type of the driving mechanism** | Front operating mechanism |
| **type of the driving mechanism motor drive** | No |
| **General technical data** | |
| **number of poles** | 3 |
| **type of device** | fixed mounting |
| **size of switch disconnector** | 3 |
| **operational current at 35 °C rated value** | 315 A |
| **mechanical service life (operating cycles) typical** | 15 000 |
| electrical endurance (operating cycles) | |
| ● at AC-23 A at 690 V | 1 000 |
| ● at DC-23 A at 440 V | 1 000 |
| **I2t value** | |
| ● with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum | 239 650 A²·s |
| ● of the fuse at 500 V maximum permissible | 2 150 005 A²·s |
| ● of the gG fuse at 690 V maximum permissible | 1 650 005 A²·s |
| ● of the gG/aM SITOR fuse at 1000 V maximum permissible | 260 000 A²·s |
| ● of the molded case circuit breaker at 415 V maximum permissible | 4 750 000 A²·s |
| **position of the switch operating mechanism** | at the left end |
| **overvoltage in percent relative to the operating voltage at AC at 400, 500, 690 V at 50/60 Hz** | 10 % |
| **overvoltage category** | IV |
| **degree of pollution** | 3 |
| **Voltage** | |
| **operating voltage with current paths in series** | |
| **● with degree of pollution 2 at DC rated value** | 440 V / 3 |
| **● with degree of pollution 3 at DC rated value** | 440 V / 3 |
| **insulation voltage** | |
| ● rated value | 1 000 V |
| **surge voltage resistance rated value** | 12 kV |
| **operational current rated value** | 315 A |


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|---|---|
| **• operational current** | |
| **— at 35 °C rated value** | 315 A |
| **— at 40 °C rated value** | 315 A |
| **— at 45 °C rated value** | 315 A |
| **— at 50 °C rated value** | 315 A |
| **— at 55 °C rated value** | 315 A |
| **— at 60 °C rated value** | 315 A |
| **— at 65 °C rated value** | 315 A |
| **— at 70 °C rated value** | 315 A |
| **• operational current** | |
| — at AC-23 A at 690 V rated value | 315 A |
| — at AC-23 A at 500 V rated value | 315 A |
| — at AC-23 A at 400 V rated value | 315 A |
| — at AC-22 A at 1000 V maximum | 315 A |
| — at AC-22 A at 690 V rated value | 315 A |
| — at AC-22 A at 500 V rated value | 315 A |
| — at AC-22 A at 400 V rated value | 315 A |
| — at AC-20 A at 1000 V maximum | 315 A |
| — at AC-21 A at 500 V rated value | 315 A |
| — at AC-21 A at 690 V rated value | 315 A |
| — at DC-20 A at 1000 V maximum | 315 A / 1 |
| — at DC-23 A at 440 V rated value note | 315 A / 3 |
| — at DC-23 A at 220 V rated value note | 315 A / 2 |
| — at DC-22 A at 440 V rated value note | 315 A / 3 |
| — at DC-22 A at 220 V rated value note | 315 A / 2 |
| — at DC-21 A at 440 V rated value note | 315 A / 3 |
| — at DC-21 A at 220 V rated value | 315 A / 2 |
| **continuous current of upstream fuse at 500 V and 690 V rated value** | 500 A |
| **continuous current of upstream fuse at 1000 V rated value** | 500 A |
| **continuous current of upstream molded case circuit breaker at 415 V rated value** | 630 A |
| **let-through current of the fuse at 500 V maximum permissible** | 54 800 A |
| **let-through current of the gG fuse at 690 V maximum permissible** | 45 200 A |
| **Supply voltage** | |
| operating voltage at AC rated value | 1 000 V |
| **Protection class** | |
| **protection class IP** | IP00 |
| **protection class IP** | |
| • with closed switch with cover or cable lug cover | IP20 |
| • on the front | IP00 |
| **Dissipation** | |
| **power loss [W]** | |
| **• with conventional rated thermal current per pole** | 10 W |
| **• with conventional rated thermal current per device** | 30 W |
| **• for rated value of the current at AC in hot operating state per pole** | 10 W |
| **Main circuit** | |
| **operating power** | |
| • at AC-23 A at 500 V rated value | 200 kW |
| operational current rated value | 315 A |
| **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** | 6 |


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| | |
|---|---|
| **number of NO contacts for auxiliary contacts** | 6 |
| **Suitability** | |
| **suitability for use main switch** | Yes |
| **suitability for use switch disconnector** | Yes |
| **suitability for use EMERGENCY OFF switch** | Yes |
| **suitability for use according to IEC 62626-1 safety switch** | No |
| **suitability for use 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 |
| **product extension optional motor drive** | No |
| **product extension optional voltage trigger** | No |
| **Short circuit** | |
| **short-time withstand current (Icw) at 1000 V AC/440 V DC limited to 1 s rated value** | 13 kA |
| **short-circuit current making capacity (Icm) for switch disconnector** | |
| ● **at 1000 V AC without fuse link rated value minimum** | 36 kA |
| ● **at DC 440 V without fuse link rated value minimum** | 36 kA |
| ● **without fuse link rated value minimum** | 36 kA |
| **conditional short-circuit current with line-side fuse protection** | |
| ● **at 415 V by molded case circuit breaker rated value** | 65 kA |
| ● **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 mm²), 2x (25 ... 120 mm²) |
| **type of connectable conductor cross-sections** | |
| ● with combination of Al conductor+switch | 315 A / 240 mm² |
| ● for copper busbar | '1 x (30 x 10 mm²) |
| **type of connectable conductor cross-sections for copper conductor** | |
| ● stranded with lug according to DIN 46234 | 1x (6 ... 240 mm²), 2x (6 ... 150 mm²) |
| ● stranded with lug according to DIN 46235 | 1x (16 ... 185 mm²), 2x (16 ...150 mm²) |
| **type of electrical connection for main current circuit** | flat connector |
| **Mechanical Design** | |
| **height** | 164 mm |
| **width** | 190 mm |
| **depth** | 94 mm |
| **fastening method** | screw fixing |
| **fastening method** | |
| ● 4-hole front mounting | No |
| ● front mounting with central attachment | No |
| ● rail mounting | No |
| **mounting position** | any |
| **Net Weight** | 2.892 kg |
| **Environmental conditions** | |
| **ambient temperature during operation** | |
| ● minimum | -25 °C |
| ● maximum | 70 °C |
| **ambient temperature during storage** | |
| ● minimum | -50 °C |
| ● maximum | 80 °C |


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## Certificates

| | |
|---|---|
| **reference code according to IEC 81346-2** | Q |

## Approvals Certificates

| Environment | | General Product Approval | | | |
|---|---|---|---|---|---|
| Environmental Confirmations | Environmental Confirmations | | | Miscellaneous | |

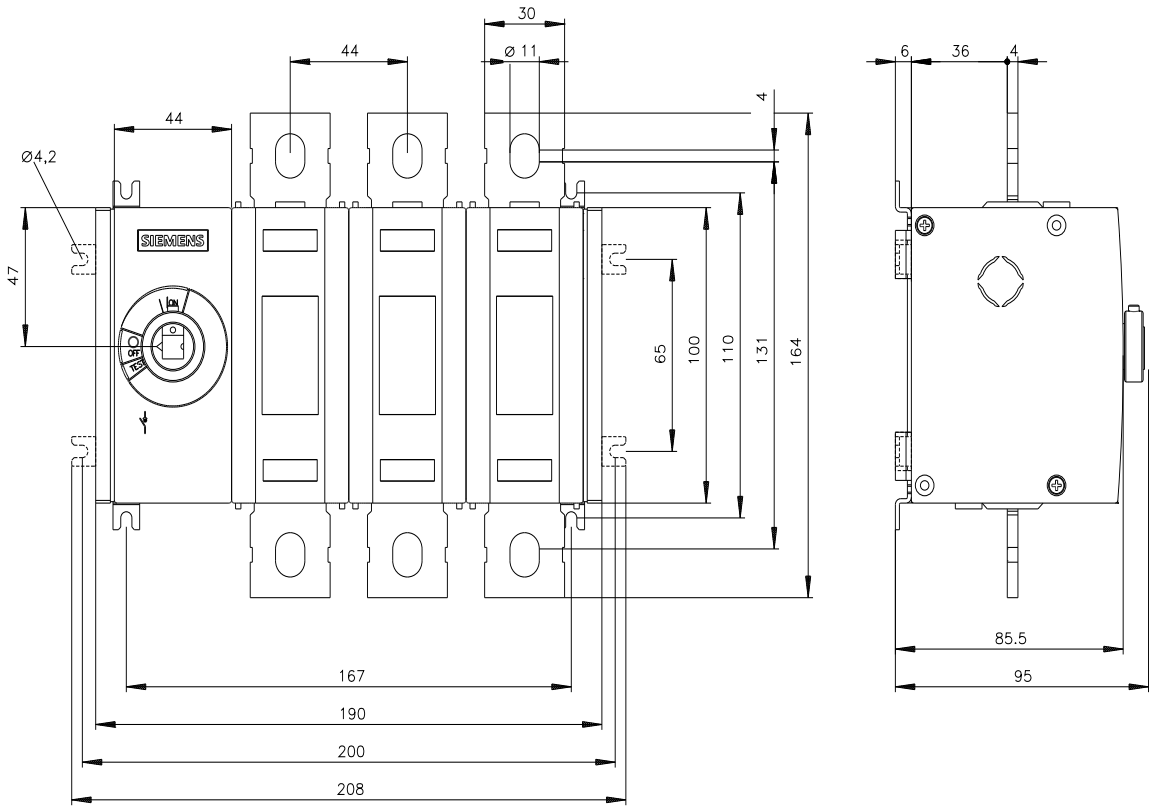
| General Product Approval | | | Test Certificates | Maritime application | |
|---|---|---|---|---|---|
| Confirmation | | | Type Test Certificates/Test Report | | |

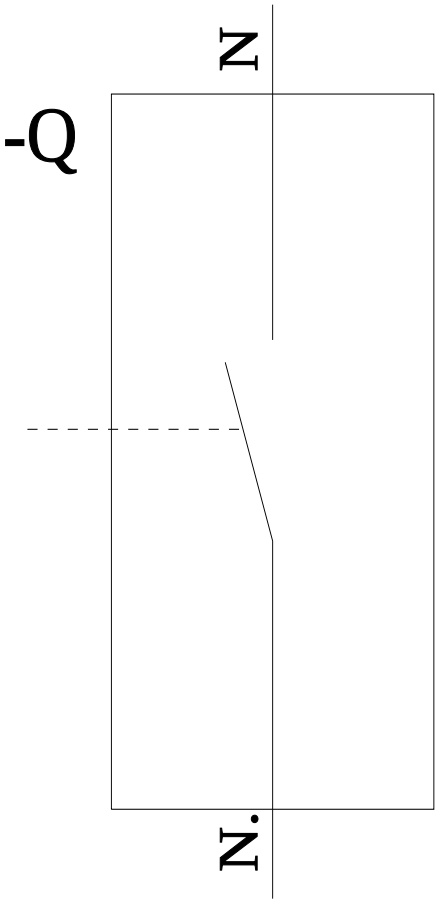
| other | | |
|---|---|---|
| | Confirmation | Miscellaneous |

## Further information

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD4030-0PE10-0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3KD4030-0PE10-0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4030-0PE10-0
**CAx-Online-Generator**
https://www.siemens.com/cax
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https://www.siemens.com/specifications
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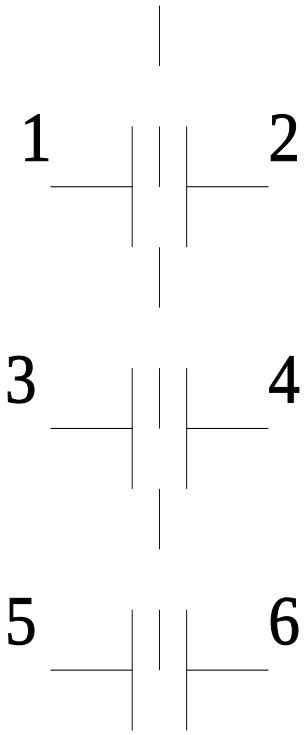




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