

Switch disconnector 400 A, Size 3, 3-pole Front operating mechanism center 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 |
| 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 |
| I _{2t} value | |
| • with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum | 239 650 A ² ·s |
| • of the fuse at 500 V maximum permissible | 2 150 005 A ² ·s |
| • of the gG fuse at 690 V maximum permissible | 1 650 005 A ² ·s |
| • of the gG/aM SITOR fuse at 1000 V maximum permissible | 260 000 A ² ·s |
| • of the molded case circuit breaker at 415 V maximum permissible | 4 750 000 A ² ·s |
| position of the switch operating mechanism | after the first pole |
| 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 at AC-22 A at 1000 V maximum | 400 A |
| 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 | 14 W |
| • with conventional rated thermal current per device | 42 W |
| • for rated value of the current at AC in hot operating state per pole | 14 W |
| Main circuit | |
| operating power | |
| • at AC-23 A at 500 V rated value | 250 kW |
| operational current rated value | 400 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 |
| number of NO contacts for auxiliary contacts | 6 |
| Suitability | |
| suitability for use | |
| • main switch | Yes |
| • switch disconnector | Yes |
| • EMERGENCY OFF switch | Yes |
| • safety switch | Yes |
| • maintenance/repair switch | Yes |
| Product details | |
| 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 |
| • 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 mm ²), 2x (25 ... 120 mm ²) |
| type of connectable conductor cross-sections | |
| • for copper busbar | '1 x (30 x 10 mm ²) |
| type of connectable conductor cross-sections for copper conductor | |
| • stranded with lug according to DIN 46234 | 1x (6 ... 240 mm ²), 2x (6 ... 150 mm ²) |
| • stranded with lug according to DIN 46235 | 1x (16 ... 185 mm ²), 2x (16 ... 150 mm ²) |
| 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 | 2 894 g |

Environmental conditions

| | |
|--------------------------------------|--------|
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 70 °C |
| ambient temperature during storage | |
| • minimum | -50 °C |
| • maximum | 80 °C |

Certificates

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

Approvals Certificates

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

| | | | |
|--------------------------|-------------------|-------------------|-------|
| General Product Approval | Test Certificates | Marine / Shipping | other |
|--------------------------|-------------------|-------------------|-------|



[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

[Confirmation](#)

Environment

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3KD4230-0PE20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4230-0PE20-0>

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

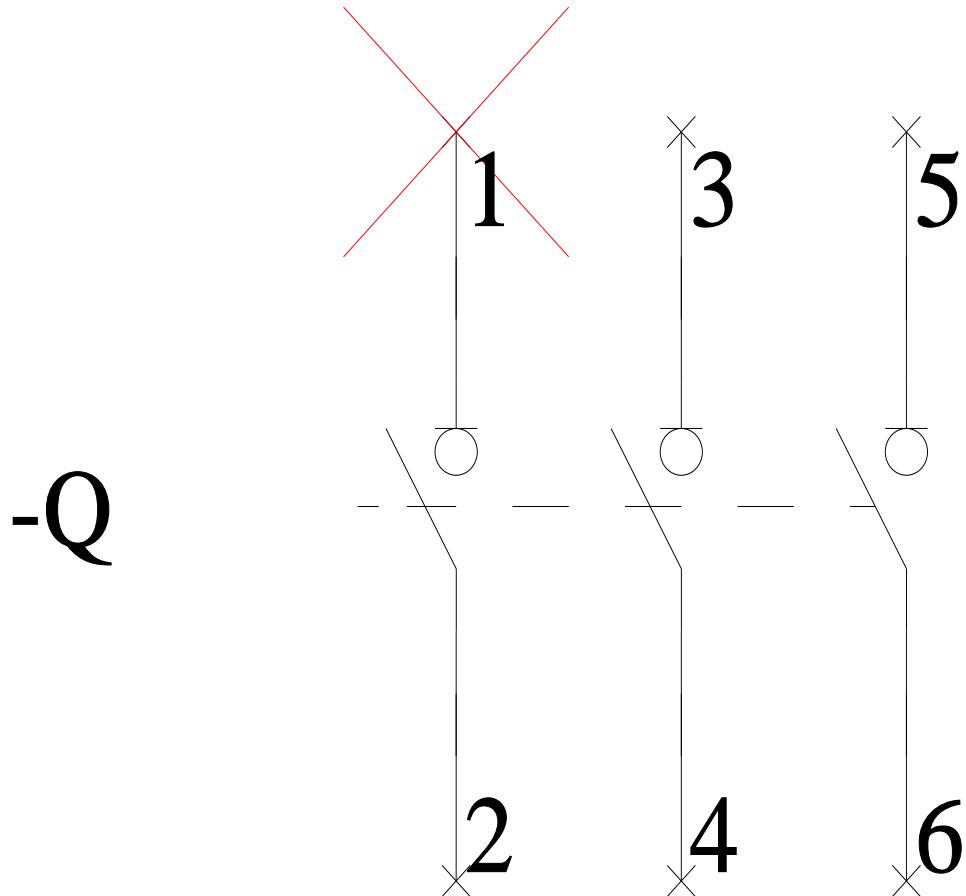
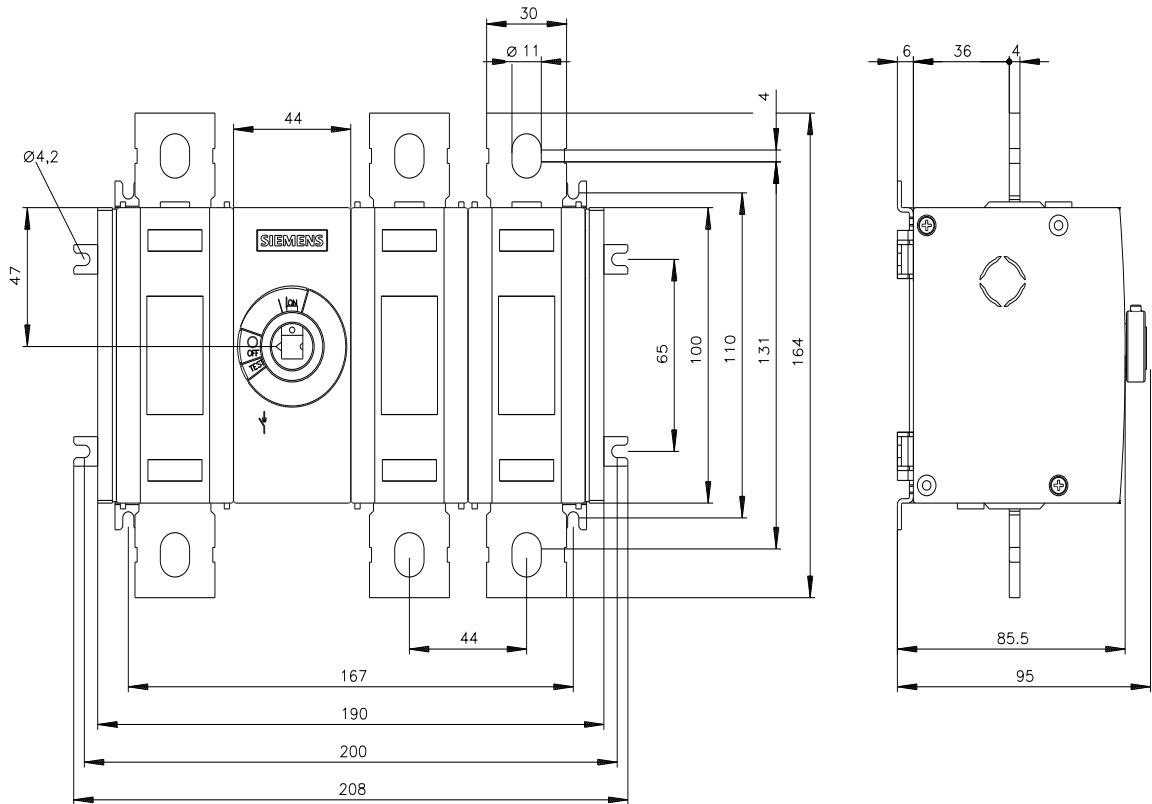
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4230-0PE20-0

CAx-Online-Generator

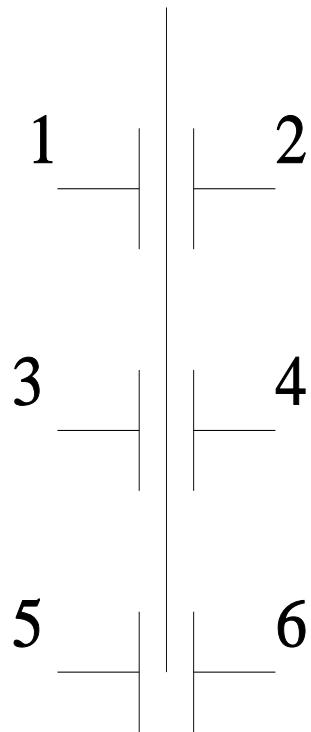
<http://www.siemens.com/cax>

Tender specifications

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



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