



Switch disconnecter 100 A, Size 2, 3-pole Front operating mechanism left
Basic unit without handle flat terminal incl. phase barriers

| Model | |
|---|-----------------------------|
| product brand name | SETRON |
| 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 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 disconnecter | 2 |
| mechanical service life (switching cycles) / typical | 15 000 |
| electrical endurance (switching cycles) | |
| • at AC-23 A / at 690 V | 1 500 |
| • at DC-23 A / at 440 V | 1 500 |
| I ² t value | |
| • with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum | 19 815 A ² ·s |
| • of the fuse / at 500 V / maximum permissible | 223 005 A ² ·s |
| • of the gG fuse / at 690 V / maximum permissible | 226 005 A ² ·s |
| • of the gG/aM SITOR fuse / at 1000 V / maximum permissible | 48 000 A ² ·s |
| • of the molded case circuit breaker / at 415 V / maximum permissible | 1 750 000 A ² ·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 | III |
| 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 | 8 kV |
| Protection class | |
| protection class IP | IP00 |

| | |
|---|--|
| protection class IP | |
| <ul style="list-style-type: none"> with closed switch / with cover or cable lug cover on the front | IP20 IP00 |
| Dissipation | |
| power loss [W] | |
| <ul style="list-style-type: none"> with conventional rated thermal current / per pole with conventional rated thermal current / per device for rated value of the current / at AC / in hot operating state / per pole | 1.8 W 5.4 W 1.8 W |
| Current | |
| operational current | |
| <ul style="list-style-type: none"> at 35 °C / rated value at 40 °C / rated value at 45 °C / rated value at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value at AC / rated value at AC-23 A / at 690 V / rated value at AC-23 A / at 500 V / rated value at AC-23 A / at 400 V / rated value at AC-22 A / at 1000 V / maximum at AC-22 A / at 690 V / rated value at AC-22 A / at 500 V / rated value at AC-22 A / at 400 V / rated value at AC-20 A / at 1000 V / maximum at AC-21 A / at 500 V / rated value at AC-21 A / at 690 V / rated value at DC-20 A / at 1000 V / maximum at DC-23 A / at 440 V / rated value / note at DC-23 A / at 220 V / rated value / note at DC-22 A / at 440 V / rated value / note at DC-22 A / at 220 V / rated value / note at DC-21 A / at 440 V / rated value / note at DC-21 A / at 220 V / rated value at DC-21 B / at 750 V / rated value / maximum | 100 A / 1 100 A / 3 100 A / 2 100 A / 3 100 A / 2 100 A / 3 100 A / 2 100 A / 3 100 A / 2 100 A / 3 |
| continuous current / of upstream fuse / at 500 V and 690 V / rated value | 250 A |
| continuous current / of upstream fuse / at 1000 V / rated value | 250 A |
| continuous current / of upstream molded case circuit breaker / at 415 V / rated value | 200 A |
| operational current / at DC / rated value | 100 A |
| let-through current / of the fuse / at 500 V / maximum permissible | 25 700 A |
| let-through current / of the gG fuse / at 690 V / maximum permissible | 29 500 A |
| let-through current / of the aM fuse / at 690 V / maximum permissible | 32 900 A |
| let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible | 12 500 A |
| let-through current / of the molded case circuit breaker / at 415 V / maximum permissible | 28 000 A |
| short-time withstand current (I _{cw}) | |
| <ul style="list-style-type: none"> at 400 V AC / limited to 0.15 s / rated value | 15 kA |
| Main circuit | |
| operating power | |
| <ul style="list-style-type: none"> at AC-23 A / at 500 V / rated value | 55 kW |
| operational current / rated value | 100 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 | 4 |
| number of NC contacts / for auxiliary contacts | 0 |
| number of NO contacts / for auxiliary contacts | 0 |

Suitability

| | |
|---|-----|
| suitability for use | |
| <ul style="list-style-type: none"> main switch | Yes |
| <ul style="list-style-type: none"> switch disconnecter | Yes |
| <ul style="list-style-type: none"> EMERGENCY OFF switch | Yes |
| <ul style="list-style-type: none"> safety switch | Yes |
| <ul style="list-style-type: none"> maintenance/repair switch | Yes |

Product details

| | |
|---|-----|
| product feature / interlock | No |
| product component | |
| <ul style="list-style-type: none"> trip indicator | No |
| <ul style="list-style-type: none"> voltage trigger | No |
| <ul style="list-style-type: none"> undervoltage release | No |
| <ul style="list-style-type: none"> undervoltage release with leading contact | No |
| product extension / auxiliary switch | Yes |
| product extension / optional | |
| <ul style="list-style-type: none"> motor drive | No |
| <ul style="list-style-type: none"> voltage trigger | No |

Short circuit

| | |
|--|--------|
| short-time withstand current (I _{cw}) / at 1000 V AC/440 V DC / limited to 1 s / rated value | 4 kA |
| short-circuit current making capacity (I _{cm}) / for switch disconnecter | |
| <ul style="list-style-type: none"> at 400 V AC / without fuse link / rated value / minimum | 30 kA |
| <ul style="list-style-type: none"> at 1000 V AC / without fuse link / rated value / minimum | 12 kA |
| <ul style="list-style-type: none"> at DC 440 V / without fuse link / rated value / minimum | 12 kA |
| <ul style="list-style-type: none"> without fuse link / rated value / minimum | 12 kA |
| conditional short-circuit current / with line-side fuse protection | |
| <ul style="list-style-type: none"> at 415 V / by molded case circuit breaker / rated value | 65 kA |
| <ul style="list-style-type: none"> at 500 V / by gG fuse / rated value | 100 kA |
| <ul style="list-style-type: none"> at 690 V / by gG fuse / rated value | 100 kA |

Connections

| | |
|---|--|
| type of connectable conductor cross-sections / for aluminum conductor | |
| <ul style="list-style-type: none"> stranded / with lug | 1x (10 ... 70 mm ²) |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> for copper busbar | 1x (20x3 mm ²) |
| type of connectable conductor cross-sections / for copper conductor | |
| <ul style="list-style-type: none"> stranded / with lug / acc. to DIN 46235 | 1x (25 ... 70 mm ²), 2x (25 ... 50 mm ²) |
| type of electrical connection / for main current circuit | flat connector |

Mechanical Design

| | |
|--|---|
| height | 168 mm |
| width | 121 mm |
| depth | 68 mm |
| fastening method | Screw fixing and standard rail mounting 35 mm |
| fastening method | |
| <ul style="list-style-type: none"> 4-hole front mounting | No |
| <ul style="list-style-type: none"> front mounting with central attachment | No |
| <ul style="list-style-type: none"> rail mounting | Yes |
| mounting position | any |

| | |
|--|----------------------------------|
| net weight | 1 052 g |
| Environmental conditions | |
| ambient temperature / during operation | |
| • minimum | -25 °C |
| • maximum | 70 °C |
| ambient temperature / during storage | |
| • minimum | -50 °C |
| • maximum | 80 °C |
| General Product Approval | Declaration of Conformity |



[Miscellaneous](#)



[UK Declaration of Conformity](#)

Marine / Shipping

other



[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=3KD3030-0NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3030-0NE10-0>

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

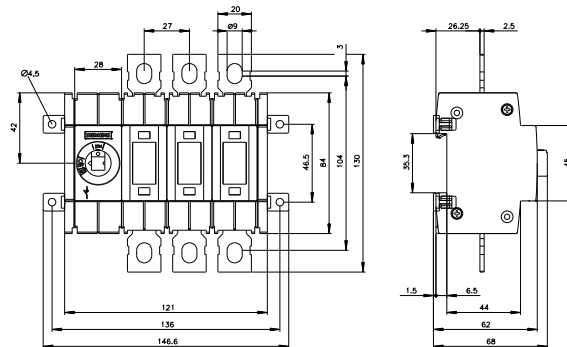
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3030-0NE10-0

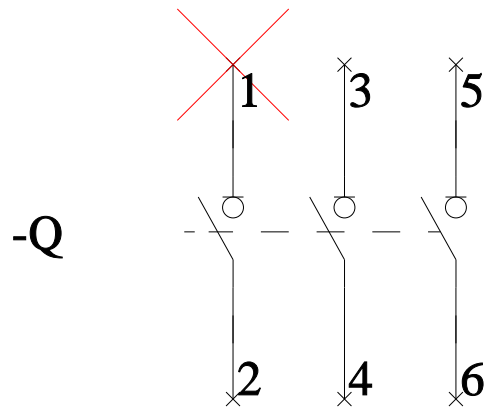
CAX-Online-Generator

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

Tender specifications

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





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