

Switch disconnecter 125 A, Size 2, 3-pole Front operating mechanism left Complete unit with direct operating mechanism gray Box terminal



| Model | |
|--|---------------------------|
| Product brand name | SETRON |
| 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 | 2 |
| Electrical endurance (switching cycles) | |
| <ul style="list-style-type: none"> • at AC-23 A / at 690 V • at DC-23 A / at 440 V | <p>1 500</p> <p>1 000</p> |
| • I ² t value / with closed switch / for combination switch + fuse / at 500 V / maximum | 548 000 A ² ·s |

| | |
|---|---------------------------|
| <ul style="list-style-type: none"> • I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum | 548 000 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / with closed switch / at 415 V / for combination switch +molded case circuit breaker / maximum | 306 000 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 376 000 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / with closed switch / at 690 V / for combination switch + aM fuse / maximum | 596 500 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum | 19 815 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / of the fuse / at 500 V / maximum permissible | 223 005 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / of the gG fuse / at 690 V / maximum permissible | 226 005 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / of the gG/aM SITOR fuse / at 1000 V / maximum permissible | 48 000 A ² ·s |
| <ul style="list-style-type: none"> • I2t value / of the molded case circuit breaker / at 415 V / maximum permissible | 560 000 A ² ·s |
| circuit-breaker / Design | 3KD3 |
| Mechanical service life (switching cycles) / typical | 15 000 |
| 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 | |
| <ul style="list-style-type: none"> • with degree of pollution 2 / at DC / rated value | 440 V / 3 |
| <ul style="list-style-type: none"> • with degree of pollution 3 / at DC / rated value | 440 V / 3 |
| Insulation voltage | |
| <ul style="list-style-type: none"> • rated value | 1 000 V |
| Surge voltage resistance / rated value | 8 kV |
| Operating current / at AC / rated value | 125 A |
| Operating voltage | |
| <ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value | 1 000 V |

Protection class

| | |
|--|------|
| Protection class IP | IP20 |
| Protection class IP | |
| <ul style="list-style-type: none"> • with closed switch / with cover or cable lug cover | IP20 |
| <ul style="list-style-type: none"> • on the front | IP20 |

Dissipation

| | |
|--|-------|
| Power loss [W] | |
| <ul style="list-style-type: none"> • with conventional rated thermal current / per pole | 3.2 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current / per device | 9.6 W |
| <ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole | 3.2 W |

Current

| | |
|---|-----------|
| Operating current | |
| <ul style="list-style-type: none"> • at AC-23 A / at 690 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-23 A / at 500 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-22 A / at 690 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-22 A / at 500 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-22 A / at 400 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-20 A / at 1000 V / maximum | 125 A |
| <ul style="list-style-type: none"> • at AC-21 A / at 400 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-21 A / at 500 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-21 A / at 690 V / rated value | 125 A |
| <ul style="list-style-type: none"> • at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum | 125 A |
| <ul style="list-style-type: none"> • at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum | 125 A |
| <ul style="list-style-type: none"> • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum | 125 A |
| <ul style="list-style-type: none"> • at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum | 125 A |
| <ul style="list-style-type: none"> • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum | 125 A |
| <ul style="list-style-type: none"> • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum | 125 A |
| <ul style="list-style-type: none"> • at DC-20 A / at 1000 V / maximum | 125 A / 1 |
| <ul style="list-style-type: none"> • at DC-23 A / at 440 V / rated value / Note | 125 A / 3 |
| <ul style="list-style-type: none"> • at DC-23 A / at 220 V / rated value / Note | 125 A / 2 |
| <ul style="list-style-type: none"> • at DC-22 A / at 440 V / rated value / Note | 125 A / 3 |
| <ul style="list-style-type: none"> • at DC-22 A / at 220 V / rated value / Note | 125 A / 2 |
| <ul style="list-style-type: none"> • at DC-21 A / at 440 V / rated value / Note | 125 A / 3 |
| <ul style="list-style-type: none"> • at DC-21 A / at 220 V / rated value | 125 A / 2 |
| <ul style="list-style-type: none"> • at 45 °C / rated value | 125 A |
| Continuous current | |
| <ul style="list-style-type: none"> • rated value | 125 A |

| | |
|---|----------|
| • at 40 °C / rated value | 125 A |
| • at 45 °C / rated value | 125 A |
| • at 50 °C / rated value | 125 A |
| • at 55 °C / rated value | 125 A |
| • at 60 °C / rated value | 125 A |
| • at 65 °C / rated value | 125 A |
| • at 70 °C / rated value | 125 A |
| 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 | 160 A |
| Operating current / at DC / rated value | 125 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 | 22 500 A |
| Let-through current / with closed switch | |
| • at 690 V / for combination switch + aM fuse / maximum permissible | 17 600 A |
| • at 690 V / for combination switch + gG fuse / maximum permissible | 23 700 A |
| • at 415 V / for combination switch +molded case circuit breaker / maximum permissible | 16 980 A |
| • at 1000 V / for combination switch +gG/aM SITOR fuse / maximum permissible | 10 795 A |
| • for combination switch + fuse / at 400 V / maximum permissible | 27 700 A |
| • for combination switch + fuse / at 500 V / maximum permissible | 27 700 A |
| Short-time withstand current (Icw) | |
| • at 400 V AC / limited to 0.15 s / rated value | 15 kA |

Main circuit

| | |
|---|--------|
| Operating power | |
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value | 55 kW |
| • at AC-23 A / at 500 V / rated value | 75 kW |
| • at AC-23 A / at 690 V / at 50/60 Hz / rated value | 110 kW |

| | |
|---------------------------------|-------|
| Operating current / rated value | 125 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 • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch | <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> |

Product details

| | |
|--|---|
| Product feature / interlock | Yes |
| Product component | |
| <ul style="list-style-type: none"> • Trip indicator • Voltage trigger • undervoltage release • undervoltage release with leading contact | <p>No</p> <p>No</p> <p>No</p> <p>No</p> |
| Product extension / Auxiliary switch | Yes |
| Product extension / optional | |
| <ul style="list-style-type: none"> • motor drive • Voltage trigger | <p>No</p> <p>No</p> |

Short circuit

| | |
|---|---|
| Short-time withstand current (I _{cw}) / at AC 1000 V/DC 440 V / limited to 1 s / rated value | 4 kA |
| Short-circuit current making capacity (I _{cm}) | |
| <ul style="list-style-type: none"> • for switch disconnecter / at 400 V AC / without fuse link / rated value / minimum • for switch disconnecter / at 1000 V AC / without fuse link / rated value / minimum • for switch disconnecter / at DC 440 V / without fuse link / rated value / minimum • for switch disconnecter / without fuse link / rated value / minimum | <p>30 kA</p> <p>12 kA</p> <p>12 kA</p> <p>12 kA</p> |

| | |
|---|--------|
| 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 | |
| <ul style="list-style-type: none"> • for copper busbar | '1 x (3 x 14 mm ²) |
| Type of connectable conductor cross-sections / for copper conductor | |
| <ul style="list-style-type: none"> • solid | 1x (2.5 ... 16 mm ²) |
| <ul style="list-style-type: none"> • finely stranded / with core end processing | 1x (2.5 ... 70 mm ²) |
| <ul style="list-style-type: none"> • stranded | 1x (10 ... 70 mm ²) |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit | box terminal |

Mechanical Design





| | |
|--|---|
| Height | 126 mm |
| Width | 121 mm |
| Depth | 97 mm |
| Mounting type | Screw fixing and standard rail mounting 35 mm |
| Mounting type | |
| <ul style="list-style-type: none"> • front mounting with 4-hole attachment | 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 | 1 168 g |

Environmental conditions

| | |
|---|--------|
| Ambient temperature / during operation | |
| <ul style="list-style-type: none"> • minimum | -25 °C |
| <ul style="list-style-type: none"> • maximum | 70 °C |
| Ambient temperature / during storage | |
| <ul style="list-style-type: none"> • minimum | -50 °C |
| <ul style="list-style-type: none"> • maximum | 80 °C |

Certificates

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

| General Product Approval | | Declaration of Conformity | Shipping Approval | other |
|--|--|---|--|-------------------------------|
|  CCC |  VDE |  EG-Konf. |  LRS | |
| | 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=3KD3232-2NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3232-2NE10-0>

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

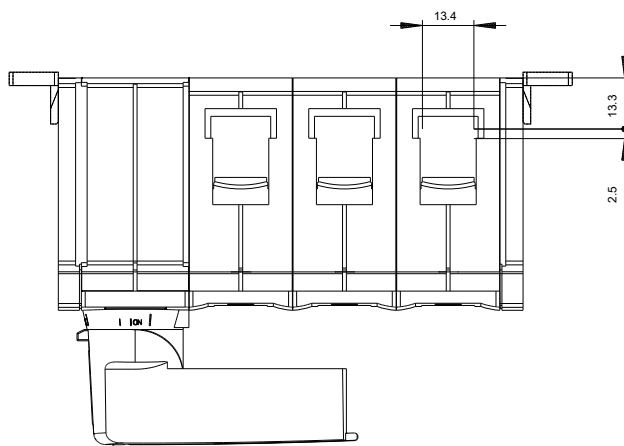
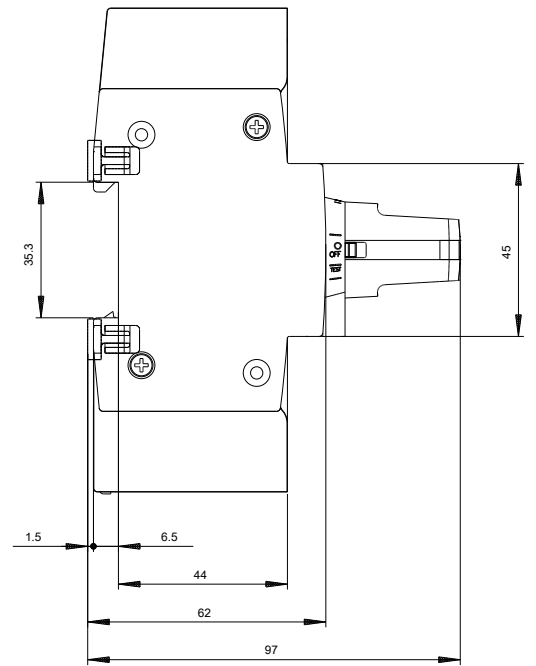
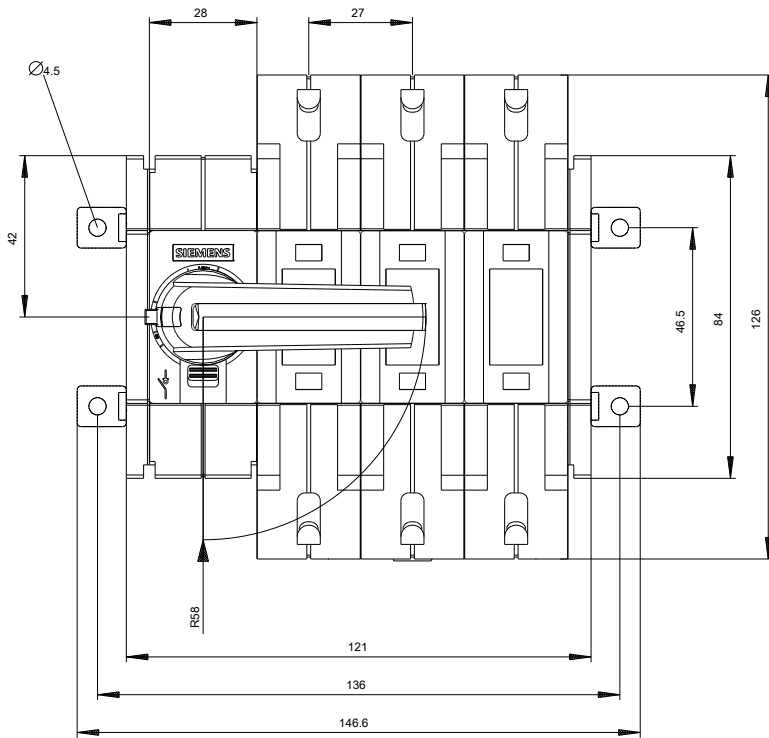
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3232-2NE10-0

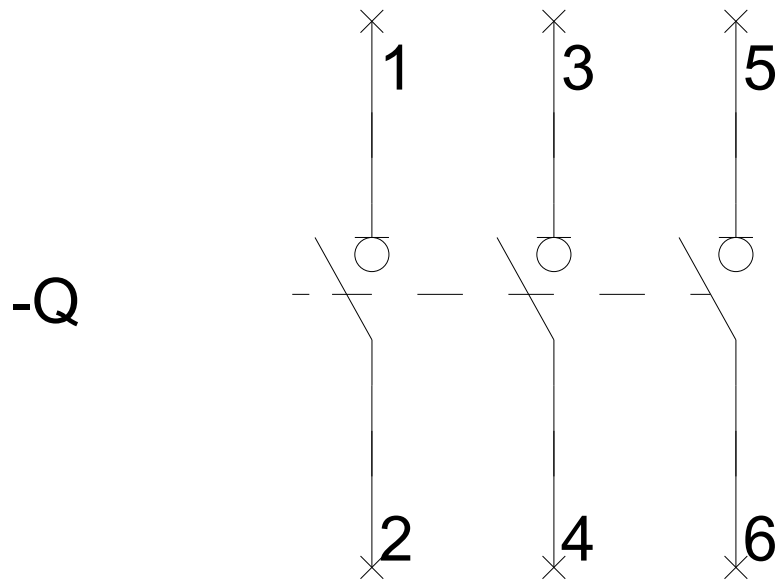
CAX-Online-Generator

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

Tender specifications

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





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