

SWITCH-DISCONNECTOR 800A, FRAME SIZE 4, 3-POLE SIDE
OPERATING RIGHT BASIC UNIT WITHOUT HANDLE FLAT
TERMINAL



| Model | |
|--|-------------------------|
| product brandname | SENTRON |
| 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 operating mechanism | Without handle |
| 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) | |
| <ul style="list-style-type: none"> at AC-23 A / at 690 V / at 50/60 Hz | 1 000 |
| <ul style="list-style-type: none"> at DC-23 A / at 440 V | 500 |
| <ul style="list-style-type: none"> I_{2t} value / with closed switch / for combination switch + fuse / at 500 V / maximum | 7 471 700 A ² ·s |
| <ul style="list-style-type: none"> I_{2t} value / with closed switch / for combination switch + fuse / at 400 V / maximum | 7 471 700 A ² ·s |

| | |
|---|------------------------------|
| <ul style="list-style-type: none"> • I_{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 10 300 000 A ² ·s |
| <ul style="list-style-type: none"> • I_{2t} value / of the fuse / at 500 V / maximum permissible | 10 400 005 A ² ·s |
| circuit-breaker / Design | 3KD4 |
| Mechanical service life (switching cycles) / typical | 8 000 |
| Position / of the switch operating mechanism | at the right end |
| Overvoltage category | IV |

Voltage

| | |
|---|-----------|
| Operating voltage / with current paths in series | |
| <ul style="list-style-type: none"> • with degree of pollution 2 / at DC / rated value / Note | 440 V / 3 |
| <ul style="list-style-type: none"> • with degree of pollution 3 / at DC / rated value / Note | 440 / 3 |
| Insulation voltage | |
| <ul style="list-style-type: none"> • rated value | 1 000 V |
| Surge voltage resistance / rated value | 12 kV |
| Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz | 10 % |

Protection class

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

Dissipation

| | |
|--|------|
| Power loss [W] | |
| <ul style="list-style-type: none"> • with conventional rated thermal current / per pole | 35 W |

Electricity

| | |
|---|-------|
| <ul style="list-style-type: none"> • Operating current / at AC-21 A / at 400 V / maximum | 800 A |
| <ul style="list-style-type: none"> • Operating current / at AC-21 A / at 500 V / maximum | 800 A |
| <ul style="list-style-type: none"> • Operating current / at AC-21 A / at 690 V / maximum | 800 A |
| <ul style="list-style-type: none"> • Operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum | 630 A |
| <ul style="list-style-type: none"> • Operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum | 800 A |
| <ul style="list-style-type: none"> • Operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum | 800 A |

| | |
|---|----------|
| • Operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum | 800 A |
| • Operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum | 670 A |
| • Operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum | 500 A |
| • Operating current / at DC-23 A / at 440 V / rated value / maximum | 800 / 3 |
| • Operating current / at DC-23 A / at 220 V / rated value / maximum | 800 / 2 |
| • Operating current / at DC-22 A / at 440 V / rated value / maximum | 800 / 3 |
| • Operating current / at DC-22 A / at 220 V / rated value / maximum | 800 / 2 |
| • Operating current / at DC-21 A / at 440 V / rated value / maximum | 800 / 3 |
| • Operating current / at DC-21 A / at 220 V / maximum | 800 / 2 |
| Continuous current | |
| • rated value | 800 A |
| • at 40 °C / rated value | 800 A |
| • at 45 °C / rated value | 800 A |
| • at 50 °C / rated value | 800 A |
| • at 55 °C / rated value | 800 A |
| • at 60 °C / rated value | 630 A |
| • at 65 °C / rated value | 630 A |
| • at 70 °C / rated value | 630 A |
| Continuous current / at DC / rated value | 800 A |
| Let-through current / of the fuse / at 500 V / maximum permissible | 70 816 A |
| Let-through current / with closed switch | |
| • at 690 V / for combination switch + gG fuse / maximum permissible | 70 400 A |
| • for combination switch + fuse / at 400 V / maximum permissible | 63 700 A |
| • for combination switch + fuse / at 500 V / maximum permissible | 63 700 A |
| Short-time current resistance (I_{cw}) | |
| • limited to 1 s / rated value | 30 kA |
| • at 690 V AC/440 V DC / limited to 1 s / rated value | 30 kA |
| Main circuit | |
| Operating power | |
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value | 355 kW |

| | |
|---|--------------------------------|
| <ul style="list-style-type: none"> • at AC-23 A / at 500 V / at 50/60 Hz / rated value • at AC-23 A / at 690 V / at 50/60 Hz / rated value | 400 kW 500 kW |
| Operating voltage <ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value | 690 V |
| 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 |
| Suitability | |
| Suitability for use <ul style="list-style-type: none"> • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch | Yes Yes No Yes Yes |
| Product details | |
| Product feature / interlock | No |
| Product component <ul style="list-style-type: none"> • Trip indicator • Voltage trigger • undervoltage release • undervoltage release with leading contact | No No No No |
| Product extension <ul style="list-style-type: none"> • Auxiliary switch • optional <ul style="list-style-type: none"> — motor drive — Voltage trigger | Yes No No |
| Short circuit | |
| <ul style="list-style-type: none"> • Short-circuit current making capacity (I_{cm}) / for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum • Short-circuit current making capacity (I_{cm}) / for switch disconnector / without fuse link / rated value / minimum | 63 kA 63 kA |
| Conditional short-circuit current <ul style="list-style-type: none"> • with line-side fuse protection / at 500 V / by gG fuse / rated value | 65 kA |
| Connections | |

| | |
|---|--|
| <ul style="list-style-type: none"> Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 | 1x (25 ... 240 mm²), 2x (25 ... 240 mm²) |
| Type of electrical connection <ul style="list-style-type: none"> for main current circuit | flat connector |

| Mechanical Design | |
|--|--------------|
| Height | 235 mm |
| Width | 271 mm |
| Depth | 111.5 mm |
| Mounting position | any |
| Mounting type | screw fixing |
| 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 | No |
| Net weight | 7 300 g |

| Environmental conditions | |
|--|--------|
| Degree of pollution | 3 |
| Ambient temperature | |
| <ul style="list-style-type: none"> during operation / minimum | -25 °C |
| <ul style="list-style-type: none"> during operation / maximum | 70 °C |
| <ul style="list-style-type: none"> during storage / minimum | -50 °C |
| <ul style="list-style-type: none"> during storage / maximum | 80 °C |

| Certificates | |
|--|---|
| Equipment marking | |
| <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 |
|--------------------------|---------------------------|
|--------------------------|---------------------------|



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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

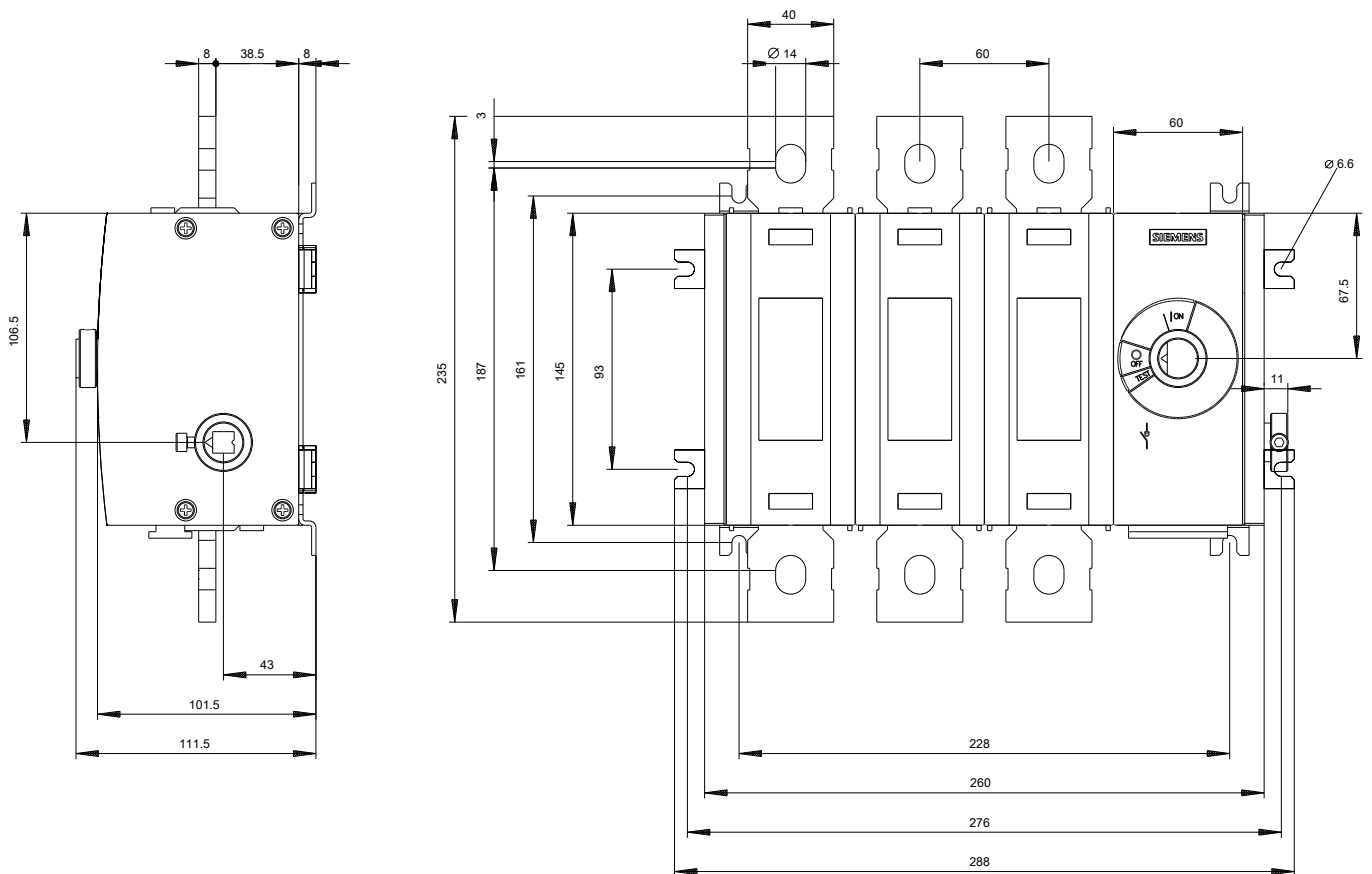
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD4834-0QE40-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD4834-0QE40-0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4834-0QE40-0



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