

SWITCH DISCONNECTOR FUSE 800A, FRAME SIZE 5, 3-POLE FOR LV HRC FUSE SIZE 2 AND 3 FRONT OPERATING LEFT BASIC UNIT WITHOUT HANDLE FLAT TERMINAL WITHOUT FUSES



| Model | |
|---|------------------------------------|
| Product brand name | SETRON |
| Product designation | Switching device |
| Design of the product | 3KF switch disconnecter with fuses |
| Design of the operating mechanism | without |
| Design of handle | Without |
| Direction of actuation | from the front |
| Type of the driving mechanism / motor drive | No |
| Number of poles | 3 |
| Size of disconnecting link | 3 and 2 |
| Size of switch disconnecter | 5 |
| Size of fuse link | NH2, NH3 |
| Electrical endurance (switching cycles) | |
| • at AC-23 A / at 440 V / at 50/60 Hz | 1 500 |
| • at AC-23 A / at 690 V / at 50/60 Hz | 1 000 |
| • at DC-23 A / at 440 V | 500 |
| I ² t value | |
| • with closed switch / for combination switch + fuse / at 500 V / maximum | 4 100 000 A ² ·s |

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| <ul style="list-style-type: none"> • with closed switch / for combination switch + fuse / at 400 V / maximum | 4 100 000 A ² ·s |
| <ul style="list-style-type: none"> • with closed switch / at 690 V / for combination switch + gG fuse / maximum | 2 050 000 A ² ·s |
| <ul style="list-style-type: none"> • with closed switch / at 690 V / for combination switch + aM fuse / maximum | 2 050 000 A ² ·s |
| <ul style="list-style-type: none"> • of the fuse / at 500 V / maximum permissible | 10 400 000 A ² ·s |
| <ul style="list-style-type: none"> • of the gG fuse / at 690 V / maximum permissible | 7 000 000 A ² ·s |
| <ul style="list-style-type: none"> • of the aM fuse / at 690 V / maximum permissible | 7 000 000 A ² ·s |
| Mechanical service life (switching cycles) / typical | 6 000 |
| Position / of the switch operating mechanism | at the left end |
| Fuse system | LV HRC fuse |
| Overvoltage category | IV |
| Operating voltage / with current paths in series | |
| <ul style="list-style-type: none"> • with degree of pollution 2 / at DC / rated value / Note | 440 / 3 |
| <ul style="list-style-type: none"> • with degree of pollution 3 / at DC / rated value / Note | 440 / 3 |
| Insulation voltage / 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 % |

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| 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 |

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| Dissipation | |
| Power loss [W] | |
| <ul style="list-style-type: none"> • with conventional rated thermal current / per pole | 50 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current / per device | 150 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current / without fuse / per pole | 50 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current / without fuse / per device | 150 W |
| <ul style="list-style-type: none"> • of the fuse / per fuse / maximum | 60 W |
| <ul style="list-style-type: none"> • maximum | 330 W |
| Operating current | |

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| • at AC-21 A / at 400 V / maximum | 800 A |
| • at AC-21 A / at 500 V / maximum | 800 A |
| • at AC-21 A / at 690 V / maximum | 800 A |
| • at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum | 800 A |
| • at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum | 800 A |
| • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum | 800 A |
| • at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum | 800 A |
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum | 800 A |
| • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum | 800 A |
| • at DC-23 A / at 440 V / rated value / maximum | 800 A |
| • at DC-23 A / at 220 V / rated value / maximum | 800 A |
| • at DC-22 A / at 440 V / rated value / maximum | 800 A |
| • at DC-22 A / at 220 V / rated value / maximum | 800 A |
| • at DC-21 A / at 440 V / rated value / maximum | 800 A |
| • at DC-21 A / at 220 V / maximum | 800 A |
| Continuous current | |
| • rated value | 800 A |
| • at 40 °C / rated value | 800 A |
| • at 45 °C / rated value | 700 A |
| • at 50 °C / rated value | 670 A |
| • at 55 °C / rated value | 630 A |
| • at 60 °C / rated value | 630 A |
| • at 65 °C / rated value | 560 A |
| • at 70 °C / rated value | 560 A |
| Continuous current / at DC / rated value | 800 A |
| Let-through current / of the fuse / at 500 V / maximum permissible | 77 400 A |
| Let-through current / of the gG fuse / at 690 V / maximum permissible | 65 000 A |
| Let-through current / of the aM fuse / at 690 V / maximum permissible | 65 000 A |
| Let-through current / with closed switch | |
| • at 690 V / for combination switch + aM fuse / maximum permissible | 46 590 A |
| • at 690 V / for combination switch + gG fuse / maximum permissible | 46 590 A |
| • for combination switch + fuse / at 400 V / maximum permissible | 58 500 A |

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|--|----------|
| <ul style="list-style-type: none"> • for combination switch + fuse / at 500 V / maximum permissible | 58 500 A |
| Short-time current resistance (I _{cw}) / at 690 V AC/440 V DC / limited to 1 s / rated value | 22 kA |

Main circuit

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|--|---|
| Operating power / at AC-23 A | |
| <ul style="list-style-type: none"> • at 400 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value | <p>400 kW</p> <p>560 kW</p> <p>800 kW</p> |
| Operating voltage | |
| <ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value • at AC / rated value / maximum | <p>690 V</p> <p>690 V</p> |

Auxiliary circuit

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| 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 for use | |
| <ul style="list-style-type: none"> • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| Product feature / interlock | No |
| Product component | |
| <ul style="list-style-type: none"> • Voltage trigger • undervoltage release • undervoltage release with leading contact | <p>No</p> <p>No</p> <p>No</p> |
| Product feature / sealable | Yes |
| Product extension | |
| <ul style="list-style-type: none"> • Auxiliary switch • optional <ul style="list-style-type: none"> — locking capability — motor drive — fuse monitoring | <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> |
| Product function | |
| <ul style="list-style-type: none"> • fuse monitoring | No |

Short circuit

| | |
|---|----------------------------|
| Short-circuit current making capacity (I _{cm}) / for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum | 44 kA |
| Conditional short-circuit current / with line-side fuse protection | |
| <ul style="list-style-type: none"> • at 500 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value | <p>100 kA</p> <p>80 kA</p> |

Connections

| | |
|---|---|
| Arrangement of electrical connectors / for main current circuit | Top and bottom |
| Tightening torque / with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>50 N·m</p> <p>75 N·m</p> |
| <ul style="list-style-type: none"> • Type of connectable conductor cross-sections / for copper busbar • Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug • Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234 • Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 | <p>2x (50x5 mm)</p> <p>1x (25 ... 300 mm²), 2x (25 ... 300 mm²)</p> <p>1x (25 ... 240 mm²), 2x (25 ... 240 mm²)</p> <p>1x (25 ... 300 mm²), 2x (25 ... 300 mm²)</p> |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit | flat connector |

Mechanical Design

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| Height | 270 mm |
| Width | 395 mm |
| Depth | 262 mm |
| Mounting position | any |
| Mounting type | floor mounting |
| Mounting type | |
| <ul style="list-style-type: none"> • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting | <p>No</p> <p>No</p> <p>No</p> |
| Net weight | 15 150 g |

Environmental conditions

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

Certificates

Equipment marking / acc. to DIN EN 61346-2

Q

General Product Approval

other



CCC



VDE

[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=3KF5380-OLF11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF5380-OLF11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5380-OLF11

CAX-Online-Generator

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

Tender specifications

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



