

Switch disconnecter with fuse 630 A, Size 5, 4-pole for LV HRC fuse Sz. 2 and 3
Front operating mechanism left Basic unit without handle flat terminal



| Model | |
|--|------------------------------------|
| product brand name | SENTRON |
| product designation | 3KF switch disconnecter with fuses |
| design of the product | 3KF switch disconnecter with fuses |
| product variations | 3KF NH |
| design of the actuating element | without |
| design of handle | Without |
| direction of actuation | from the front |
| type of the driving mechanism motor drive | No |
| number of poles | 4 |
| size of disconnecting link | 3 and 2 |
| size of switch disconnecter | 5 |
| size of fuse link | NH2, NH3 |
| mechanical service life (operating cycles) typical | 6 000 |
| electrical endurance (operating cycles) | |
| • at AC-23 A at 440 V | 1 500 |
| • at AC-23 A at 690 V | 1 000 |
| • at DC-23 A at 440 V | 1 000 |
| I ² t value | |
| • with closed switch for combination switch + fuse at 500 V maximum | 4 100 000 A ² ·s |
| • with closed switch for combination switch + fuse at 400 V maximum | 4 100 000 A ² ·s |
| • with closed switch at 690 V for combination switch + gG fuse maximum | 2 050 000 A ² ·s |
| • of the fuse at 500 V maximum permissible | 10 400 000 A ² ·s |
| • of the gG fuse at 690 V maximum permissible | 7 000 000 A ² ·s |
| • of the aM fuse at 690 V maximum permissible | 7 000 000 A ² ·s |
| position of the switch operating mechanism | left |
| fuse system | LV HRC fuse |
| overvoltage category | IV |
| operating voltage with current paths in series | |
| • with degree of pollution 2 at DC rated value | 440 / 3 |
| • with degree of pollution 3 at DC rated value | 440 / 3 |
| surge voltage resistance rated value | 12 kV |
| Supply voltage | |
| operating voltage at AC rated value maximum | 690 V |
| Protection class | |
| protection class IP | IP00 |
| protection class IP | |
| • 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 | 40 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current per device | 120 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current without fuse per pole | 40 W |
| <ul style="list-style-type: none"> • with conventional rated thermal current without fuse per device | 120 W |
| <ul style="list-style-type: none"> • for rated value of the current at AC in hot operating state per pole | 40 W |
| <ul style="list-style-type: none"> • of the fuse per fuse maximum | 48 W |
| Main circuit | |
| operating power at AC-23 A at 500 V rated value | 400 kW |
| operational current rated value | 630 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 | 8 |
| number of NO contacts for auxiliary contacts | 8 |
| 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 component | |
| <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 feature sealable | Yes |
| product extension auxiliary switch | Yes |
| product extension optional | |
| <ul style="list-style-type: none"> • locking capability | Yes |
| <ul style="list-style-type: none"> • motor drive | No |
| <ul style="list-style-type: none"> • fuse monitoring | Yes |
| product function | |
| <ul style="list-style-type: none"> • fuse monitoring | No |
| <ul style="list-style-type: none"> • overvoltage protection 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 | 100 kA |
| <ul style="list-style-type: none"> • at 690 V by gG fuse rated value | 80 kA |
| 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 | 50 N·m |
| <ul style="list-style-type: none"> • maximum | 75 N·m |
| type of connectable conductor cross-sections for aluminum conductor stranded with lug | 1x (25 ... 300 mm ²), 2x (25 ... 300 mm ²) |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for copper busbar | 1x (50 x 10 mm ²) |
| type of connectable conductor cross-sections for copper conductor | |
| <ul style="list-style-type: none"> • stranded with lug according to DIN 46234 | 1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²) |
| <ul style="list-style-type: none"> • stranded with lug according to DIN 46235 | 1x (25 ... 300 mm ²), 2x (25 ... 300 mm ²) |
| type of electrical connection for main current circuit | flat connector |

| Mechanical Design | |
|--|----------------|
| height | 270 mm |
| width | 492 mm |
| depth | 262 mm |
| fastening method | floor mounting |
| fastening method | |
| • 4-hole front mounting | No |
| • front mounting with central attachment | No |
| • rail mounting | No |
| mounting position | any |
| net weight | 18 850 g |

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

Approvals Certificates

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

| General Product Approval | Test Certificates | Marine / Shipping | other | Environment |
|--------------------------|-------------------|-------------------|-------|-------------|
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[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

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=3KF5463-0LF11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF5463-0LF11>

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

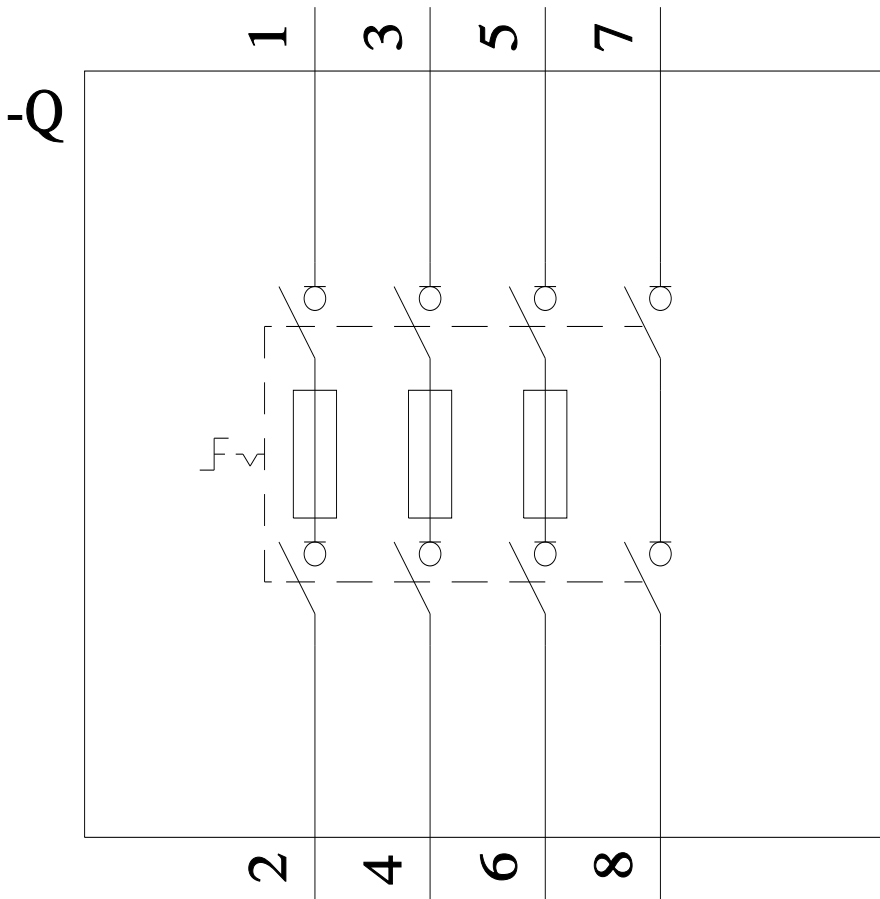
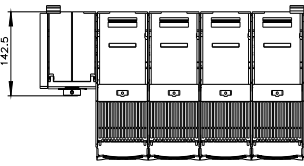
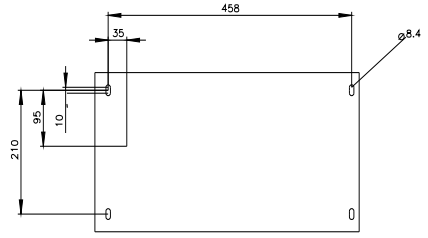
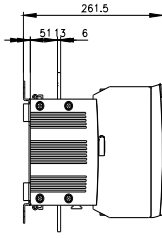
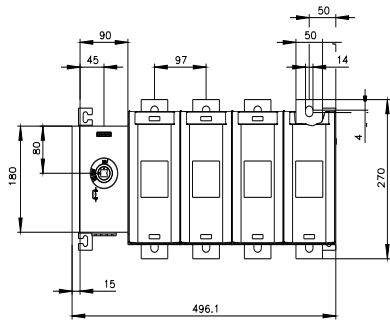
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5463-0LF11

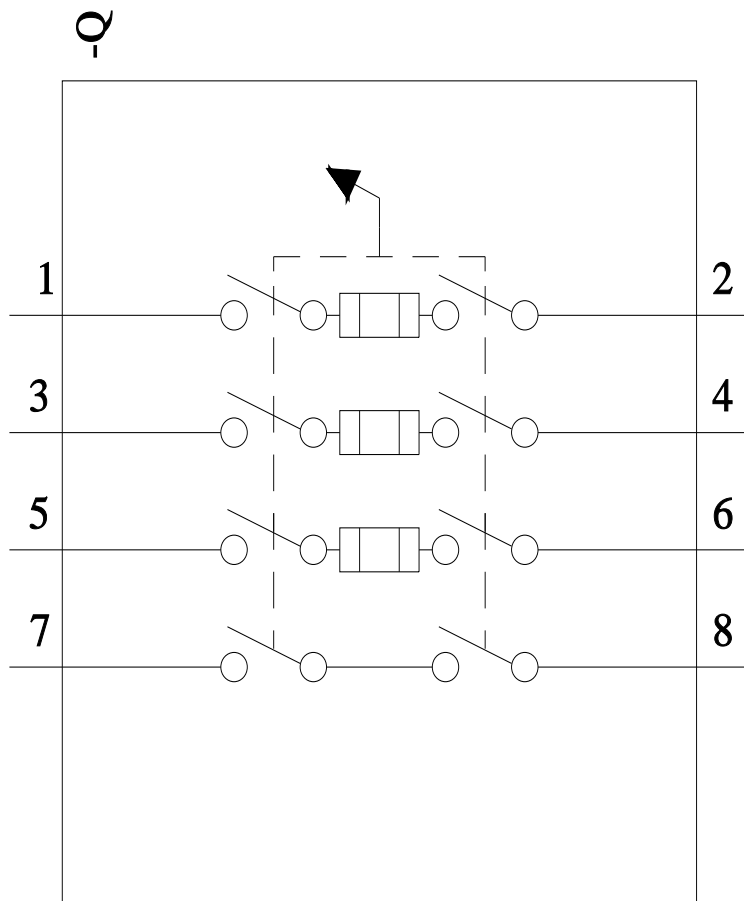
CAX-Online-Generator

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

Tender specifications

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





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