SIEMENS

## Data sheet 3KF2312-0MF11



switch disconnector with fuse 125 A, frame size 2, 3-pole for LV HRC fuse size 000 and 00 front operating mechanism centr basic unit without handle flat connector without fuses

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | 3KF switch disconnector with fuses |
| **design of the product** | 3KF switch disconnector with fuses |
| **product version** | 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** | 3 |
| **size of disconnecting link** | 00 and 000 |
| **size of switch disconnector** | 2 |
| **size of fuse link** | NH000, NH00 |
| **mechanical service life (operating cycles) typical** | 12 000 |
| electrical endurance (operating cycles) | |
| ● at AC-23 A at 440 V | 8 000 |
| ● at AC-23 A at 690 V | 5 000 |
| ● at DC-23 A at 440 V | 1 000 |
| **I2t value** | |
| ● with closed switch for combination switch + fuse at 500 V maximum | 150 600 A²·s |
| ● with closed switch for combination switch + fuse at 400 V maximum | 150 600 A²·s |
| ● with closed switch at 690 V for combination switch + gG fuse maximum | 89 640 A²·s |
| ● of the fuse at 500 V maximum permissible | 223 000 A²·s |
| ● of the gG fuse at 690 V maximum permissible | 360 000 A²·s |
| ● of the aM fuse at 690 V maximum permissible | 565 000 A²·s |
| **position of the switch operating mechanism** | center 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** | |


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| | |
|---|---|
| ● with closed switch with cover or cable lug cover | IP20 |
| ● on the front | IP00 |
| **Dissipation** | |
| **power loss [W]** | |
| **● with conventional rated thermal current per pole** | 4.2 W |
| **● with conventional rated thermal current per device** | 12.6 W |
| **● with conventional rated thermal current without fuse per pole** | 4.2 W |
| **● with conventional rated thermal current without fuse per device** | 12.6 W |
| **● for rated value of the current at AC in hot operating state per pole** | 4.2 W |
| **● of the fuse per fuse maximum** | 11 W |
| **Main circuit** | |
| operating power at AC-23 A at 500 V rated value | 75 kW |
| operational 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** | 0 |
| **number of NC contacts for auxiliary contacts** | 6 |
| **number of NO contacts for auxiliary contacts** | 6 |
| **suitability for use main switch** | Yes |
| **suitability for use switch disconnector** | Yes |
| **suitability for use EMERGENCY OFF switch** | Yes |
| **suitability for use maintenance/repair switch** | Yes |
| **product feature interlock** | No |
| **product function phase failure monitoring** | No |
| **product component** | |
| ● voltage trigger | No |
| ● undervoltage release | No |
| ● undervoltage release with leading contact | No |
| **product feature sealable** | Yes |
| **product extension auxiliary switch** | Yes |
| **product extension optional locking capability** | Yes |
| **product extension optional motor drive** | No |
| **product extension optional fuse monitoring** | Yes |
| **product function** | |
| ● fuse monitoring | No |
| ● overvoltage protection monitoring | No |
| **Short circuit** | |
| **short-circuit current making capacity (Icm) for switch disconnector at 690 V AC/440 V DC without fuse link rated value minimum** | 7.65 kA |
| **conditional short-circuit current with line-side fuse protection** | |
| **● at 500 V by gG fuse rated value** | 100 kA |
| **● at 690 V by gG fuse rated value** | 100 kA |
| **Connections** | |
| **arrangement of electrical connectors for main current circuit** | Top and bottom |
| **tightening torque with screw-type terminals** | |
| ● minimum | 15 N·m |
| ● maximum | 22 N·m |
| type of connectable conductor cross-sections for aluminum conductor stranded with lug | 1x (2.5 ... 95 mm²), 2x (2.5 ... 50 mm²) |
| **type of connectable conductor cross-sections** | |
| ● for copper busbar | 1x (15 x 3 mm²) |
| **type of connectable conductor cross-sections for copper conductor** | |


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|---|---|
| ● stranded with lug according to DIN 46234 | 1x (2.5 ... 95 mm²), 2x (2.5 ... 50 mm²) |
| ● stranded with lug according to DIN 46235 | 1x (25 ... 70 mm²), 2x (25 ... 50 mm²) |
| **type of electrical connection for main current circuit** | flat connector |

## Mechanical Design

| | |
|---|---|
| **height** | 150 mm |
| **width** | 190.7 mm |
| **depth** | 161.5 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** | 2.869 kg |

## Environmental conditions

| | |
|---|---|
| **ambient temperature during operation** | |
| ● minimum | -25 °C |
| ● maximum | 70 °C |
| **ambient temperature during storage** | |
| ● minimum | -50 °C |
| ● maximum | 80 °C |

## Approvals Certificates

| Environment | | General Product Approval | | | |
|---|---|---|---|---|---|
| Environmental Confirmations | Environmental Confirmations | CCC | VDE | Miscellaneous | EAC |

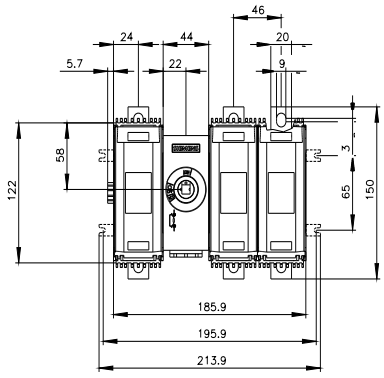
| General Product Approval | | | Test Certificates | Maritime application | other |
|---|---|---|---|---|---|
| Confirmation | CE EG-Konf. | UKCA | Type Test Certificates/Test Report | DNV | Confirmation |

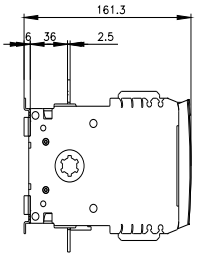
| other | |
|---|---|
| 产品合格 QC PASS | Miscellaneous |

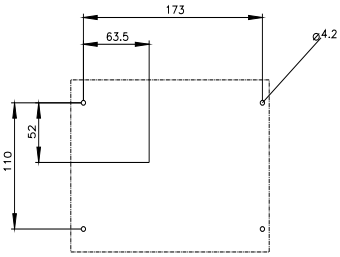
## Further information

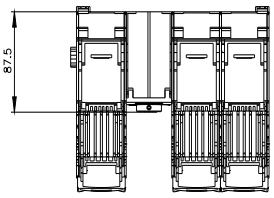
**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KF2312-0MF11
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3KF2312-0MF11
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2312-0MF11
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
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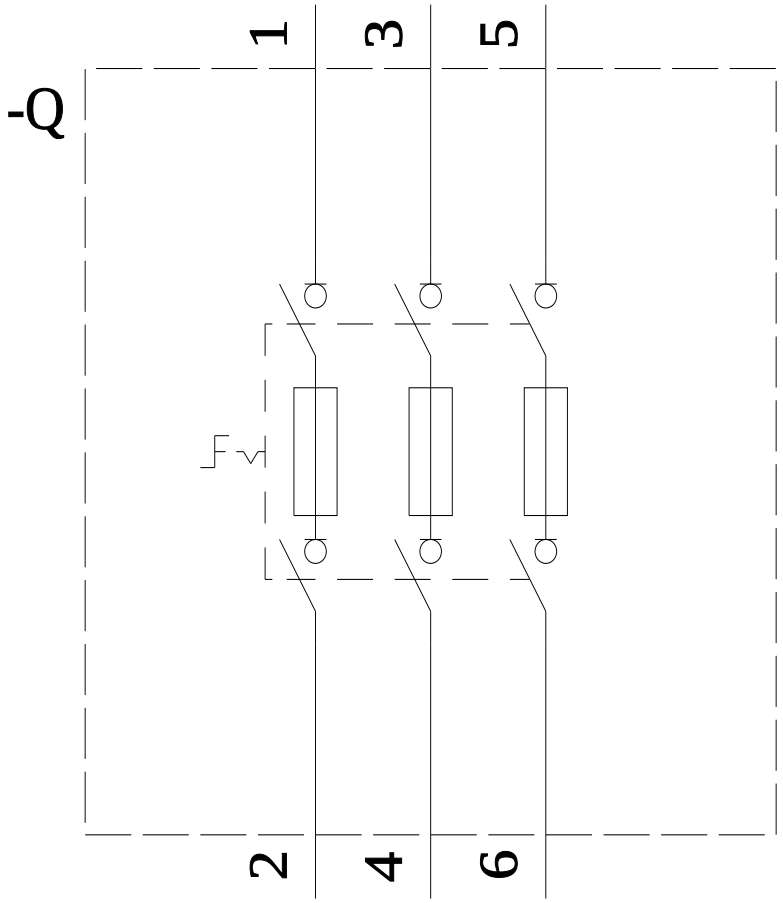

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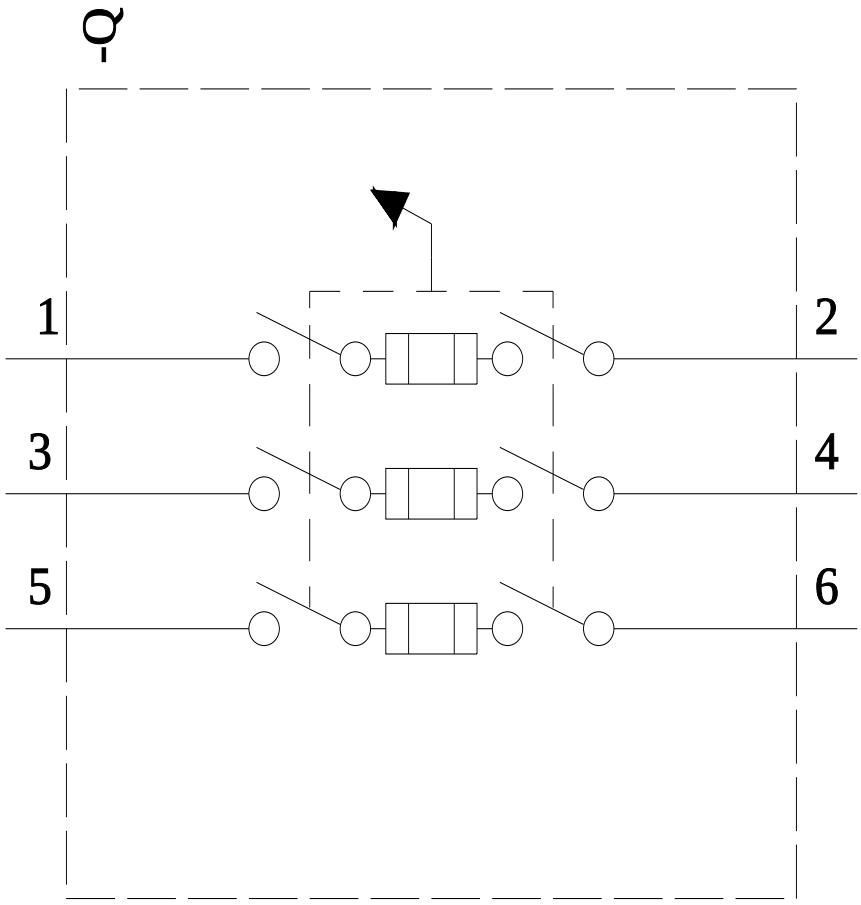





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