



Switch disconnector with fuse 63 A, Size 1, 3-pole for LV HRC fuse Sz. 000 Side operating mechanism right Basic unit without handle Box terminal

| Model  |                                    |
|--|------------------------------------|
| product brand name   | SENTRON                            |
| product designation  | 3KF switch disconnector with fuses |
| design of the product  | 3KF switch disconnector with fuses |
| product variations   | 3KF NH                             |
| design of the actuating element  | without                            |
| design of handle   | Without                            |
| direction of actuation   | from right                         |
| type of the driving mechanism motor drive                              | No                                 |
| number of poles  | 3                                  |
| size of disconnecting link   | 00 and 000                         |
| size of switch disconnector  | 1                                  |
| size of fuse link  | NH000, NH00                        |
| mechanical service life (operating cycles) typical                     | 15 000                             |
| electrical endurance (operating cycles)                                |                                    |
| • at AC-23 A at 440 V  | 10 000                             |
| • at AC-23 A at 690 V  | 6 000                              |
| • at DC-23 A at 440 V  | 1 500                              |
| I <sub>2t</sub> value  |                                    |
| • with closed switch for combination switch + fuse at 500 V maximum    | 33 200 A <sup>2</sup> ·s           |
| • with closed switch for combination switch + fuse at 400 V maximum    | 33 200 A <sup>2</sup> ·s           |
| • with closed switch at 690 V for combination switch + gG fuse maximum | 40 700 A <sup>2</sup> ·s           |
| • of the fuse at 500 V maximum permissible                             | 34 000 A <sup>2</sup> ·s           |
| • of the gG fuse at 690 V maximum permissible                          | 55 000 A <sup>2</sup> ·s           |
| • of the aM fuse at 690 V maximum permissible                          | 55 000 A <sup>2</sup> ·s           |
| position of the switch operating mechanism                             | right                              |
| 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  | IP20                               |
| protection class IP  |                                    |
| • with closed switch with cover or cable lug cover                     | IP20                               |

**Dissipation****power loss [W]**

- with conventional rated thermal current per pole 1.7 W
- with conventional rated thermal current per device 5.1 W
- with conventional rated thermal current without fuse per pole 1.7 W
- with conventional rated thermal current without fuse per device 5.1 W
- for rated value of the current at AC in hot operating state per pole 1.7 W
- of the fuse per fuse maximum 7.5 W

**Main circuit**

|   |       |
|---|-------|
| operating power at AC-23 A at 500 V rated value | 37 kW |
| operational current rated value                 | 63 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 for use main switch                        | Yes |
| suitability for use switch disconnector                | Yes |
| suitability for use EMERGENCY OFF switch               | Yes |
| suitability for use safety 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 |
| • motor drive  | No  |
| • 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 | 3.55 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   | 5 N·m                          |
| • maximum   | 6.5 N·m                        |
| type of connectable conductor cross-sections with flexible busbar | 2x (0.8 x 9 mm <sup>2</sup> )  |
| type of connectable conductor cross-sections for copper conductor |                                |
| • solid   | 1x (1 ... 16 mm <sup>2</sup> ) |
| • finely stranded with core end processing                        | 1x (6 ... 25 mm <sup>2</sup> ) |
| • stranded  | 1x (6 ... 25 mm <sup>2</sup> ) |
| type of electrical connection for main current circuit            | box terminal                   |

| Mechanical Design                        |   |
|--|---|
| height                                   | 122 mm  |
| width                                    | 167.3 mm  |
| depth                                    | 130.5 mm  |
| fastening method                         | Floor mounting and snap-on mounting on 35 mm standard mounting rail |
| fastening method                         |   |
| • 4-hole front mounting                  | No  |
| • front mounting with central attachment | No  |
| • rail mounting                          | Yes   |
| mounting position                        | any   |
| net weight                               | 1 400 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                  |
|--------------------------|--|-------------------|-------------------------------|------------------------------|
| <b>EAC</b>               | <a href="#">Type Test Certificates/Test Report</a> |                   | <a href="#">Miscellaneous</a> | <a href="#">Confirmation</a> |

### 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=3KF1306-4RB11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF1306-4RB11>

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

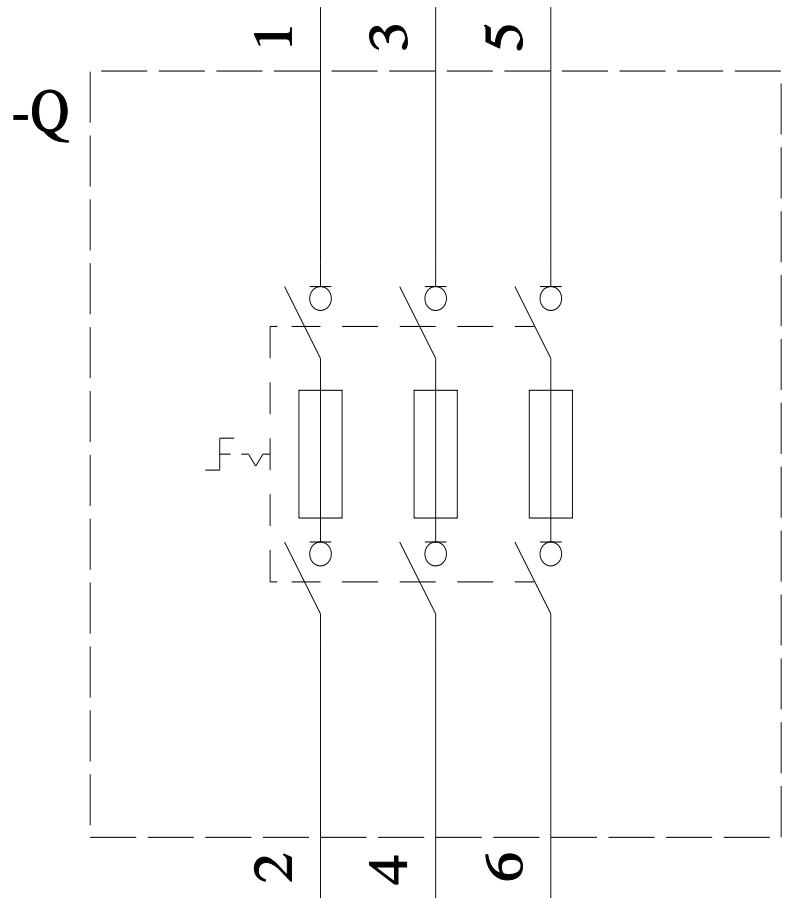
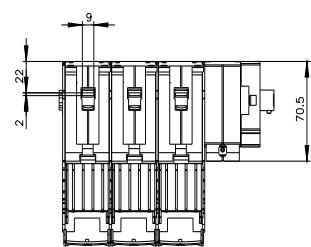
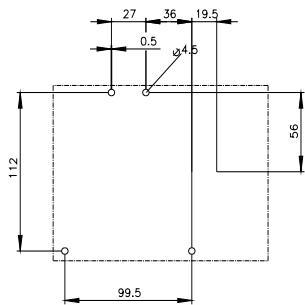
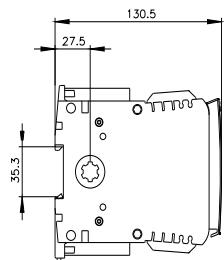
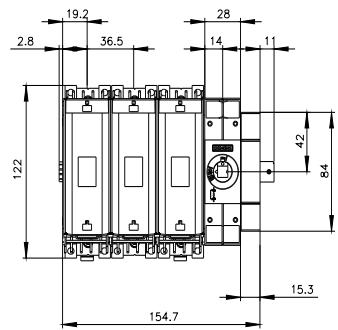
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KF1306-4RB11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF1306-4RB11)

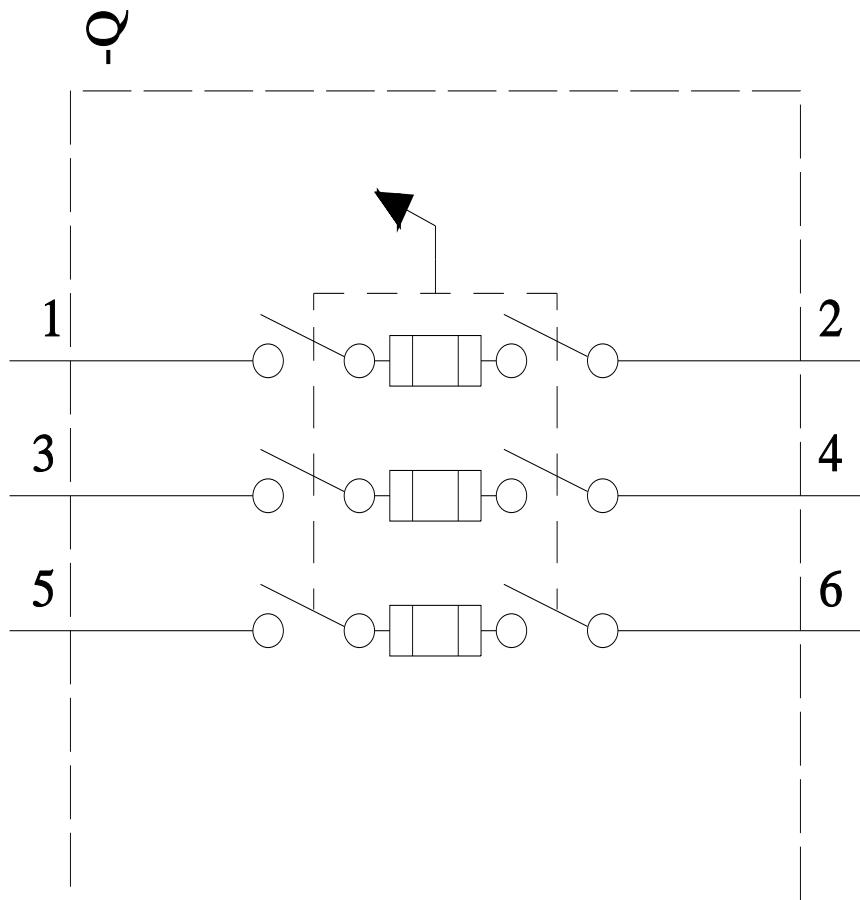
#### CAx-Online-Generator

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

#### Tender specifications

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





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