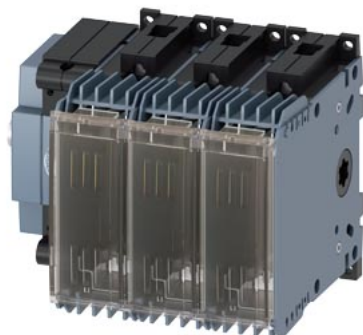




Switch disconnector with fuse 80 A, Size 1, 3-pole for LV HRC fuse Sz. 000 Side operating mechanism left Basic unit without handle Box terminal

| Model                                                                  |                                    |
|------------------------------------------------------------------------|------------------------------------|
| product brand name                                                     | SETRON                             |
| 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 left                          |
| 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 <sup>2</sup> t 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                             | 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                                                    | IP20                               |
| protection class IP                                                    |                                    |
| • with closed switch with cover or cable lug cover                     | IP20                               |

|                                                                                                                                             |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| • on the front                                                                                                                              | IP20                           |
| <b>Dissipation</b>                                                                                                                          |                                |
| power loss [W]                                                                                                                              |                                |
| • with conventional rated thermal current per pole                                                                                          | 2.8 W                          |
| • with conventional rated thermal current per device                                                                                        | 8.4 W                          |
| • with conventional rated thermal current without fuse per pole                                                                             | 2.8 W                          |
| • with conventional rated thermal current without fuse per device                                                                           | 8.4 W                          |
| • for rated value of the current at AC in hot operating state per pole                                                                      | 2.8 W                          |
| • of the fuse per fuse maximum                                                                                                              | 8.5 W                          |
| <b>Main circuit</b>                                                                                                                         |                                |
| operating power at AC-23 A at 500 V rated value                                                                                             | 55 kW                          |
| operational current rated value                                                                                                             | 80 A                           |
| <b>Auxiliary circuit</b>                                                                                                                    |                                |
| 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                            |
| • switch disconnecter                                                                                                                       | Yes                            |
| • EMERGENCY OFF switch                                                                                                                      | Yes                            |
| • safety switch                                                                                                                             | Yes                            |
| • maintenance/repair switch                                                                                                                 | Yes                            |
| product component                                                                                                                           |                                |
| • voltage trigger                                                                                                                           | No                             |
| • undervoltage release                                                                                                                      | No                             |
| • undervoltage release with leading contact                                                                                                 | No                             |
| product feature sealable                                                                                                                    | Yes                            |
| product extension auxiliary switch                                                                                                          | Yes                            |
| <b>product extension optional</b>                                                                                                           |                                |
| • locking capability                                                                                                                        | Yes                            |
| • motor drive                                                                                                                               | No                             |
| • fuse monitoring                                                                                                                           | Yes                            |
| product function                                                                                                                            |                                |
| • fuse monitoring                                                                                                                           | No                             |
| • overvoltage protection monitoring                                                                                                         | No                             |
| <b>Short circuit</b>                                                                                                                        |                                |
| short-circuit current making capacity (I <sub>cm</sub> ) for switch disconnecter 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                         |
| <b>Connections</b>                                                                                                                          |                                |
| 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                   |
| <b>Mechanical Design</b>                                                                                                                    |                                |

|                                          |                                                                     |
|------------------------------------------|---------------------------------------------------------------------|
| 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](#)



EG-Konf.



CCC



VDE

[Miscellaneous](#)

| General Product Approval | Test Certificates | Marine / Shipping | other | Environment |
|--------------------------|-------------------|-------------------|-------|-------------|
|--------------------------|-------------------|-------------------|-------|-------------|



[Type Test Certificates/Test Report](#)



DNV

[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=3KF1308-4LB11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF1308-4LB11>

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

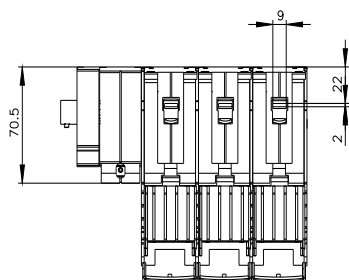
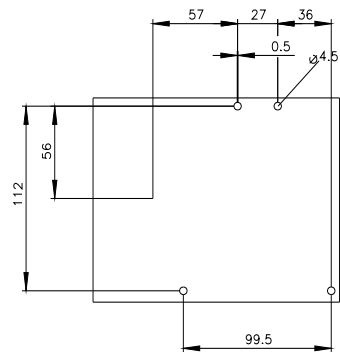
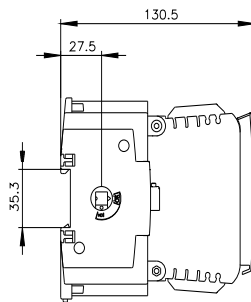
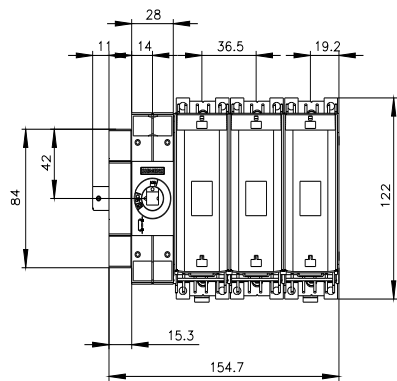
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KF1308-4LB11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF1308-4LB11)

##### CAX-Online-Generator

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

##### Tender specifications

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





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8/2/2022 

