## SIEMENS

Switch disconnector with fuse 63 A, Size 1, 4-pole for LV HRC fuse Sz. 000 Front operating mechanism center 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 the front |
| type of the driving mechanism motor drive | No |
| number of poles | 4 |
| size of disconnecting link | 00 and 000 |
| size of switch disconnector | 1 |
| size of fuse link | NH000, NH0O |
| mechanical service life (operating cycles) typical | 15000 |
| electrical endurance (operating cycles) |  |
| - at AC-23 A at 440 V | 10000 |
| - at AC-23 A at 690 V | 6000 |
| - at DC-23 A at 440 V | 1500 |
| 12 t value |  |
| - with closed switch for combination switch + fuse at 500 V maximum | $33200 \mathrm{~A}^{2} \cdot \mathrm{~s}$ |
| - with closed switch for combination switch + fuse at 400 V maximum | $33200 \mathrm{~A}^{2} \cdot \mathrm{~s}$ |
| - with closed switch at 690 V for combination switch +gG fuse maximum | $40700 \mathrm{~A}^{2} \cdot \mathrm{~S}$ |
| - of the fuse at 500 V maximum permissible | $34000 \mathrm{~A}^{2} \cdot \mathrm{~s}$ |
| - of the gG fuse at 690 V maximum permissible | $55000 \mathrm{~A}^{2} \cdot \mathrm{~s}$ |
| - of the aM fuse at 690 V maximum permissible | $55000 \mathrm{~A}^{2} \cdot \mathrm{~S}$ |
| position of the switch operating mechanism | center 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 <br> - with closed switch with cover or cable lug cover | IP20 |


| 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 |
| - switch disconnector | 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 |
| 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 <br> - at 500 V by gG fuse rated value <br> - at 690 V by gG fuse rated value | $\begin{aligned} & 100 \mathrm{kA} \\ & 100 \mathrm{kA} \end{aligned}$ |
| Connections |  |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| tightening torque with screw-type terminals <br> - minimum <br> - maximum | $5 \mathrm{~N} \cdot \mathrm{~m}$ $6.5 \mathrm{~N} \cdot \mathrm{~m}$ |
| type of connectable conductor cross-sections with flexible busbar | $2 \times\left(0.8 \times 9 \mathrm{~mm}^{2}\right)$ |
| type of connectable conductor cross-sections for copper conductor |  |
| - solid | 1x (1 ... $16 \mathrm{~mm}^{2}$ ) |
| - finely stranded with core end processing | 1x ( $6 \ldots 25 \mathrm{~mm}^{2}$ ) |
| - stranded | 1x ( $6 \ldots 25 \mathrm{~mm}^{2}$ ) |
| type of electrical connection for main current circuit | box terminal |
| Mechanical Design |  |



Further information
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an
EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
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=3KF1406-0MB11
Service\&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3KF1406-0MB11
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3KF1406-0MB11
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications



