## SIEMENS

SWITCH DISCONNECTOR FUSE 630A, FRAME SIZE 5, 4-POLE FOR LV HRC FUSE SIZE 2 AND 3 FRONT OPERATING CENTER BASIC UNIT WITHOUT HANDLE FLAT TERMINAL WITHOUT FUSES


## Model

| Product brand name | SENTRON |
| :---: | :---: |
| Product designation | Switching device |
| Design of the product | 3KF switch disconnector with fuses |
| Design of the operating mechanism | 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 disconnector | 5 |
| Size of fuse link | NH2, NH3 |
| Electrical endurance (switching cycles) <br> - at AC-23 A / at $440 \mathrm{~V} /$ at $50 / 60 \mathrm{~Hz}$ <br> - at AC-23 A / at $690 \mathrm{~V} /$ at $50 / 60 \mathrm{~Hz}$ <br> - at DC-23 A / at 440 V | $\begin{aligned} & 1500 \\ & 1000 \\ & 1000 \end{aligned}$ |
| I2t value <br> - with closed switch / for combination switch + fuse / at $500 \mathrm{~V} /$ maximum | $4100000 \mathrm{~A}^{2} \cdot \mathrm{~s}$ |

- with closed switch / for combination switch + fuse / at 400 V / maximum
- with closed switch / at $690 \mathrm{~V} /$ for combination switch + gG fuse / maximum
- with closed switch / at $690 \mathrm{~V} /$ for combination switch + aM fuse / maximum
- of the fuse / at 500 V / maximum permissible
- of the gG fuse / at $690 \mathrm{~V} /$ maximum permissible
- of the aM fuse / at $690 \mathrm{~V} /$ maximum permissible
Mechanical service life (switching cycles) / typical Position / of the switch operating mechanism


## Fuse system

Overvoltage category
Operating voltage / with current paths in series

- with degree of pollution 2 / at DC / rated value / Note
- with degree of pollution 3 / at DC / rated value / Note

Insulation voltage / rated value
Surge voltage resistance / rated value
Overvoltage in percent / relative to the operating voltage / at AC / at $50 / 60 \mathrm{~Hz}$
$4100000 \mathrm{~A}^{2} \cdot \mathrm{~s}$
$2050000 \mathrm{~A}^{2} \cdot \mathrm{~s}$
$2050000 \mathrm{~A}^{2} \cdot \mathrm{~s}$
$10400000 \mathrm{~A}^{2} \cdot \mathrm{~s}$
$7000000 \mathrm{~A}^{2} \cdot \mathrm{~s}$
$7000000 \mathrm{~A}^{2} \cdot \mathrm{~s}$

6000
after the second pole
LV HRC fuse
IV

440 / 3

440 / 3

1000 V
12 kV
10 \%

Protection class

## Protection class IP

IP00
Protection class IP

- with closed switch / with cover or cable lug

IP20 cover

- on the front

IP00

## Dissipation

## Power loss [W]

- with conventional rated thermal current / per

40 W pole

- with conventional rated thermal current / per device
- with conventional rated thermal current /

40 W without fuse / per pole

- with conventional rated thermal current /

120 W
without fuse / per device

- of the fuse / per fuse / maximum

48 W

- maximum

264 W

- at AC-21 A / at $400 \mathrm{~V} /$ maximum

630 A
630 A
630 A
630 A

630 A

630 A

630 A

630 A

630 A

630 A

630 A

630 A
630 A

630 A
630 A
630 A
630 A
630 A
630 A
560 A
560 A
630 A
77400 A

65000 A

65000 A

46590 A

46590 A

58500 A

- for combination switch + fuse / at $500 \mathrm{~V} /$ maximum permissible
Short-time current resistance (Icw) / at $690 \mathrm{~V} \mathrm{AC/440}$ V DC / limited to $1 \mathrm{~s} /$ rated value

58500 A

22 kA

Main circuit

| Operating power / at AC-23 A |  |
| :---: | :---: |
| - at $400 \mathrm{~V} /$ at $50 / 60 \mathrm{~Hz} /$ rated value | 355 kW |
| - at $500 \mathrm{~V} /$ at $50 / 60 \mathrm{~Hz} /$ rated value | 400 kW |
| - at $690 \mathrm{~V} /$ at $50 / 60 \mathrm{~Hz} /$ rated value | 630 kW |
| Operating voltage |  |
| - at AC / at $50 / 60 \mathrm{~Hz}$ / rated value | 690 V |
| - at AC / rated value / maximum | 690 V |

Auxiliary circuit

| Number of connected NC contacts / for auxiliary <br> contacts | 0 |
| :--- | :--- |
| Number of connected NO contacts / for auxiliary <br> contacts | 0 |
| Number of connected CO contacts / for auxiliary <br> contacts | 0 |
| Suitability for use <br> $\quad \bullet$ Main switch | Ye |

            - switch disconnector Yes
            - EMERGENCY OFF switch Yes
            - safety switch
            - maintenance/repair switch
            Yes
    Product feature / interlock No
Product component
- Voltage triggerNo

- undervoltage release ..... No
- undervoltage release with leading contact ..... No
Product feature / sealable Yes

Product extension

- Auxiliary switch
- optional
— locking capability
— motor drive No
— fuse monitoring Yes

Product function

- fuse monitoringNo


## Short circuit

## Short-circuit current making capacity (Icm) / for switch disconnector / at $690 \mathrm{~V} \mathrm{AC/440} \mathrm{~V} \mathrm{DC} \mathrm{/} \mathrm{without}$ fuse link / rated value / minimum <br> Conditional short-circuit current / with line-side fuse protection

- at $500 \mathrm{~V} /$ by gG fuse / rated value
- at $690 \mathrm{~V} /$ by gG fuse / rated value

Connections

Arrangement of electrical connectors / for main current circuit
Tightening torque / with screw-type terminals

- minimum
- maximum
- Type of connectable conductor cross-sections / for copper busbar
- Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug
- Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234
- Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235
Type of electrical connection
- for main current circuit

44 kA

100 kA
80 kA

## Top and bottom

$50 \mathrm{~N} \cdot \mathrm{~m}$
$75 \mathrm{~N} \cdot \mathrm{~m}$
1x ( $50 \times 10 \mathrm{~mm}$ )
$1 \times\left(25 \ldots 300 \mathrm{~mm}^{2}\right), 2 \mathrm{x}\left(25 \ldots 300 \mathrm{~mm}^{2}\right)$

1x ( $25 \ldots 240 \mathrm{~mm}^{2}$ ), $2 \mathrm{x}\left(25 \ldots 240 \mathrm{~mm}^{2}\right.$ )

1x (25 ... $300 \mathrm{~mm}^{2}$ ), 2x ( $25 \ldots 300 \mathrm{~mm}^{2}$ )
flat connector

## Mechanical Design

| Height |
| :--- |
| Width |
| Depth |
| Mounting position |
| Mounting type |
| Mounting type |
| • front mounting with 4-hole attachment |
| • front mounting with central attachment |
| • rail mounting |
| Net weight |

## Environmental conditions

## Degree of pollution

270 mm
490 mm
262 mm
any
floor mounting

No
No
No
18850 g

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

3
$-25^{\circ} \mathrm{C}$
$70^{\circ} \mathrm{C}$
$-50^{\circ} \mathrm{C}$
$80^{\circ} \mathrm{C}$

## Certificates

| Equipment marking / acc. to DIN EN 61346-2 |
| :--- |
| General Product Approval |

Further information
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=3KF5463-0MF11
Service\&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3KF5463-0MF11
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5463-0MF11

## CAx-Online-Generator

http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications


