## **SIEMENS**

Data sheet 3KF4340-0MF11

SWITCH DISCONNECTOR FUSE 400A, FRAME SIZE 4, 3-POLE FOR LV HRC FUSE SIZE 1 AND 2 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	3
Size of disconnecting link	2 and 1
Size of switch disconnector	4
Size of fuse link	NH1, NH2
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	3 000
• at AC-23 A / at 690 V / at 50/60 Hz	2 000
• at DC-23 A / at 440 V	1 000
I2t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	1 205 000 A <sup>2</sup> ·s

<ul> <li>with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>	1 205 000 A <sup>2</sup> ·s
<ul> <li>with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul>	1 300 000 A²-s
<ul> <li>with closed switch / at 690 V / for combination switch + aM fuse / maximum</li> </ul>	1 300 000 A²·s
• of the fuse / at 500 V / maximum permissible	2 150 000 A <sup>2</sup> ·s
<ul> <li>of the gG fuse / at 690 V / maximum permissible</li> </ul>	2 600 000 A²-s
<ul> <li>of the aM fuse / at 690 V / maximum permissible</li> </ul>	2 600 000 A²·s
Mechanical service life (switching cycles) / typical	8 000
Position / of the switch operating mechanism	after the first pole
Fuse system	LV HRC fuse
Overvoltage category	IV
Operating voltage / with current paths in series	
<ul><li>with degree of pollution 2 / at DC / rated value / Note</li></ul>	440 / 3
<ul> <li>with degree of pollution 3 / at DC / rated value / Note</li> </ul>	440 / 3
Insulation voltage / rated value	1 000 V
Surge voltage resistance / rated value	12 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %
Protection class	
TOTECTION CIASS	
Protection class IP	IP00
	IP00
Protection class IP	IP00
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug	
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover	IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover  • on the front	IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover  • on the front  Dissipation	IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per	IP20 IP00
Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per pole • with conventional rated thermal current / per	IP20 IP00
Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per pole • with conventional rated thermal current / per device • with conventional rated thermal current /	IP20 IP00  26 W 78 W
Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per pole • with conventional rated thermal current / per device • with conventional rated thermal current / without fuse / per pole • with conventional rated thermal current / without fuse / per pole • with conventional rated thermal current /	IP20 IP00  26 W  78 W  26 W
Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per pole • with conventional rated thermal current / per device  • with conventional rated thermal current / without fuse / per pole  • with conventional rated thermal current / without fuse / per pole • with conventional rated thermal current / without fuse / per device	IP20 IP00  26 W  78 W  26 W  78 W

• at AC-21 A / at 400 V / maximum	400 A
• at AC-21 A / at 500 V / maximum	400 A
• at AC-21 A / at 690 V / maximum	400 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	400 A
• at DC-23 A / at 440 V / rated value / maximum	400 A
• at DC-23 A / at 220 V / rated value / maximum	400 A
• at DC-22 A / at 440 V / rated value / maximum	400 A
• at DC-22 A / at 220 V / rated value / maximum	400 A
• at DC-21 A / at 440 V / rated value / maximum	400 A
• at DC-21 A / at 220 V / maximum	400 A
Continuous current	
• rated value	400 A
• at 40 °C / rated value	400 A
• at 45 °C / rated value	350 A
• at 50 °C / rated value	315 A
• at 55 °C / rated value	315 A
• at 60 °C / rated value	315 A
• at 65 °C / rated value	280 A
• at 70 °C / rated value	280 A
Continuous current / at DC / rated value	400 A
Let-through current / of the fuse / at 500 V / maximum permissible	37 100 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	47 000 A
Let-through current / of the aM fuse / at 690 V / maximum permissible	47 000 A
Let-through current / with closed switch	
<ul> <li>at 690 V / for combination switch + aM fuse / maximum permissible</li> </ul>	41 140 A
• at 690 V / for combination switch + gG fuse / maximum permissible	41 140 A
• for combination switch + fuse / at 400 V / maximum permissible	39 400 A

• for combination switch + fuse / at 500 V / maximum permissible  Short-time current resistance (lcw) / at 690 V AC/440 V DC / limited to 1 s / rated value  Main circuit  Operating power / at AC-23 A  • at 400 V / at 50/60 Hz / rated value  220 kW  • at 500 V / at 50/60 Hz / rated value  • at 690 V / at 50/60 Hz / rated value  • at 690 V / at 50/60 Hz / rated value  • at 62 / at 50/60 Hz / rated value  • at AC / rated value / maximum  690 V  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Suitability for use  • Main switch  • switch disconnector  • switch disconnector  • safety switch  • maintenance/repair switch  Product feature / interlock  Product feature / interlock  Product feature / interlock  Product feature / sealable  • Auxiliary switch  • Question of the contact of the co		
Main circuit	<ul> <li>for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	39 400 A
Operating power / at AC-23 A  • at 400 V / at 50/60 Hz / rated value 280 kW  • at 690 V / at 50/60 Hz / rated value 400 kW  Operating voltage  • at AC / at 50/60 Hz / rated value 690 V  • at AC / rated value / maximum 690 V  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Sultability for use  • Main switch Yes  • switch disconnector Yes  • EMERGENCY OFF switch Yes  • safety switch Yes  • maintenance/repair switch Yes  Product feature / interlock No  Product feature / interlock No  Product gerelease with leading contact No  Product extension  • Auxiliary switch Yes  Product extension  • Auxiliary switch Yes  Product extension  • Auxiliary switch Yes  Product four extension		12 kA
Operating power / at AC-23 A  • at 400 V / at 50/60 Hz / rated value 280 kW  • at 690 V / at 50/60 Hz / rated value 400 kW  Operating voltage  • at AC / at 50/60 Hz / rated value 690 V  • at AC / rated value / maximum 690 V  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Sultability for use  • Main switch Yes  • switch disconnector Yes  • EMERGENCY OFF switch Yes  • safety switch Yes  • maintenance/repair switch Yes  Product feature / interlock No  Product feature / interlock No  Product gerelease with leading contact No  Product extension  • Auxiliary switch Yes  Product extension  • Auxiliary switch Yes  Product extension  • Auxiliary switch Yes  Product four extension	Main circuit	
at 500 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value  at 690 V / at 50/60 Hz / rated value  be at AC / at 50/60 Hz / rated value  at AC / at 50/60 Hz / rated value  at AC / rated value / maximum  be 90 V  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Suitability for use  Main switch  switch disconnector  EMERGENCY OFF switch  safety switch  maintenance/repair switch  results feature / intertock  Product component  Voltage trigger  undervoltage release  undervoltage release with leading contact  No  Product etature / sealable  Product etature / sealable  Product etature / sealable  Product extension  Auxiliary switch  Yes  product feature / sealable  Product extension  Locking capability  motor drive  fuse motor drive  fuse motor function		
at 890 V / at 50/60 Hz / rated value  Operating voltage at AC / at 50/60 Hz / rated value at AC / rated value / maximum  overland value / value / maximum  overland value /	• at 400 V / at 50/60 Hz / rated value	220 kW
Operating voltage  • at AC / at 50/60 Hz / rated value   690 V  • at AC / rated value / maximum   690 V  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Suitability for use  • Main switch	• at 500 V / at 50/60 Hz / rated value	280 kW
at AC / at 50/60 Hz / rated value  690 V  at AC / rated value / maximum 690 V  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Suitability for use  • Main switch Yes • Main switch Yes • switch disconnector Yes • safety switch Yes • safety switch Yes • maintenance/repair switch Yes  Product feature / interlock No  Product component  • Voltage trigger No • undervoltage release with leading contact No  Product feature / sealable Yes  Product teature / sealable Yes  Product extension • Auxiliary switch • optional — locking capability Yes — motor drive No — fuse monitoring Yes  Product function	● at 690 V / at 50/60 Hz / rated value	400 kW
at AC / rated value / maximum  Auxiliary circuit  Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Suitability for use  • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch • maintenance/repair switch  Product feature / interlock  Product component  • Voltage trigger • undervoltage release • undervoltage release with leading contact  Product eature / sealable  Product eature / sealable  Product eature / sealable  Product teature / sealable  Product eature / sealable  Product extension  • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring  Product function	Operating voltage	
Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Suitability for use  • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  Product feature / interlock  Product geature / interlock  Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact  Product feature / sealable  Product eature / sealable  Product eature / sealable  Product eature / sealable  Product eature / sealable  • Auxiliary switch • optional  — locking capability — motor drive — fuse monitoring  Product function	• at AC / at 50/60 Hz / rated value	690 V
Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Sultability for use  • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  Product feature / interlock  No  Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact  Product feature / sealable  Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring  Product function	• at AC / rated value / maximum	690 V
Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Sultability for use  • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  Product feature / interlock  No  Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact  Product feature / sealable  Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring  Product function	Auxiliary circuit	
contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Number of connected CO contacts / for auxiliary contacts  Suitability for use  Main switch switch disconnector Safety Switch disconnector Safety switch Safety switch Safety switch Safety switch Mo Product feature / interlock  Product component Voltage trigger No Sundervoltage release Sundervoltage release with leading contact  Product feature / sealable  Product extension Auxiliary switch Soft Soft Soft Soft Soft Soft Soft Soft		0
contacts  Number of connected CO contacts / for auxiliary contacts  Sultability for use  Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch  Product feature / interlock  Product component  Voltage trigger No undervoltage release undervoltage release with leading contact  Product feature / sealable  Product extension Auxiliary switch Optional Opti	•	
Number of connected CO contacts / for auxiliary contacts  Suitability for use  Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch maintenance/repair switch No  Product feature / interlock  Product component Voltage trigger undervoltage release with leading contact No  Product feature / sealable  Product extension Auxiliary switch optional — locking capability — motor drive — motor drive — fuse monitoring  Product function	Number of connected NO contacts / for auxiliary	0
contacts         Suitability for use         • Main switch       Yes         • switch disconnector       Yes         • EMERGENCY OFF switch       Yes         • safety switch       Yes         • maintenance/repair switch       Yes         Product feature / interlock       No         Product component       No         • Voltage trigger       No         • undervoltage release       No         • undervoltage release with leading contact       No         Product feature / sealable       Yes         Product extension       Auxiliary switch         • Auxiliary switch       Yes         • optional       Yes         — locking capability       Yes         — motor drive       No         — fuse monitoring       Yes         Product function       Yes	contacts	
Suitability for use  • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product feature / interlock  Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact  Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — motor drive — fuse monitoring  Product function	-	0
<ul> <li>Main switch</li> <li>switch disconnector</li> <li>EMERGENCY OFF switch</li> <li>safety switch</li> <li>maintenance/repair switch</li> <li>Product feature / interlock</li> <li>No</li> <li>Product component</li> <li>Voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> <li>Product feature / sealable</li> <li>Yes</li> <li>Product extension</li> <li>Auxiliary switch</li> <li>optional</li> <li>locking capability</li> <li>motor drive</li> <li>motor drive</li> <li>fuse monitoring</li> <li>Product function</li> </ul>		
switch disconnector     EMERGENCY OFF switch     safety switch     safety switch     maintenance/repair switch  Product feature / interlock  Product component     Voltage trigger     No     undervoltage release     undervoltage release with leading contact  Product feature / sealable  Product extension     Auxiliary switch     optional     — locking capability     — motor drive     — motor drive     — fuse monitoring  Product function  Product function	•	V
EMERGENCY OFF switch     safety switch     maintenance/repair switch  Product feature / interlock  Product component     Voltage trigger     No     undervoltage release     undervoltage release with leading contact  Product extension     Auxiliary switch     optional     — locking capability     — motor drive     — fuse monitoring  Product function  Product function  Product function  Product function  Product function  Product function  Yes  Product function		
* safety switch     * maintenance/repair switch Product feature / interlock Product component     * Voltage trigger     * Voltage trigger		
<ul> <li>maintenance/repair switch</li> <li>Product feature / interlock</li> <li>No</li> <li>Product component <ul> <li>Voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> </ul> </li> <li>Product feature / sealable</li> <li>Yes</li> </ul> <li>Product extension <ul> <li>Auxiliary switch</li> <li>optional</li> <li>locking capability</li> <li>motor drive</li> <li>motor drive</li> <li>fuse monitoring</li> </ul> </li> <li>Product function</li> <li>Product function</li>	EMERGENCY OFF switch	
Product feature / interlock  Product component  Voltage trigger  undervoltage release  undervoltage release with leading contact  Product feature / sealable  Product extension  Auxiliary switch  optional  — locking capability  — motor drive  — fuse monitoring  Product function	safety switch	
Product component  • Voltage trigger  • undervoltage release  • undervoltage release with leading contact  Product feature / sealable  Product extension  • Auxiliary switch  • optional  — locking capability  — motor drive  — fuse monitoring  Product function	maintenance/repair switch	Yes
<ul> <li>Voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> <li>Product feature / sealable</li> <li>Product extension</li> <li>Auxiliary switch</li> <li>optional</li> <li>locking capability</li> <li>motor drive</li> <li>fuse monitoring</li> <li>Product function</li> </ul> Product function No Yes Product function		No
<ul> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> <li>Product feature / sealable</li> <li>Product extension</li> <li>Auxiliary switch</li> <li>optional</li> <li>locking capability</li> <li>motor drive</li> <li>fuse monitoring</li> <li>Product function</li> </ul> Product function No Yes Product function	·	
<ul> <li>undervoltage release with leading contact</li> <li>Product feature / sealable</li> <li>Product extension</li> <li>Auxiliary switch</li> <li>optional</li> <li>locking capability</li> <li>motor drive</li> <li>fuse monitoring</li> <li>Product function</li> </ul> No Yes Product function	Voltage trigger	
Product feature / sealable  Product extension  Auxiliary switch  optional  locking capability  motor drive  fuse monitoring  Product function  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	undervoltage release	No
Product extension		No
<ul> <li>Auxiliary switch</li> <li>optional</li> <li>— locking capability</li> <li>— motor drive</li> <li>— fuse monitoring</li> <li>Product function</li> </ul> Yes Yes Product function		Yes
● optional  — locking capability  — motor drive — fuse monitoring  Product function   Yes  Yes  Yes  Yes	Product extension	
<ul> <li>— locking capability</li> <li>— motor drive</li> <li>— fuse monitoring</li> <li>Product function</li> <li>Yes</li> </ul>	Auxiliary switch	Yes
— motor drive No — fuse monitoring Yes  Product function	<ul><li>optional</li></ul>	
— fuse monitoring Yes  Product function	<ul><li>— locking capability</li></ul>	Yes
Product function	— motor drive	No
	— fuse monitoring	Yes
• fuse monitoring No	Product function	
	• fuse 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	24 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	30 N·m
• maximum	44 N·m
<ul> <li>Type of connectable conductor cross-sections / for copper busbar</li> </ul>	1x (30x10 mm)
<ul> <li>Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug</li> </ul>	1x (6 240 mm²), 2x (6 150 mm²)
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234</li> </ul>	1x (6 240 mm²), 2x (6 150 mm²)
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235</li> </ul>	1x (16 185 mm²), 2x (16 150 mm²)
Type of electrical connection	
• for main current circuit	flat connector

Mechanical Design	
Height	215 mm
Width	288.1 mm
Depth	206.5 mm
Mounting position	any
Mounting type	floor mounting
Mounting type	
<ul> <li>front mounting with 4-hole attachment</li> </ul>	No
<ul> <li>front mounting with central attachment</li> </ul>	No
• rail mounting	No
Net weight	6 150 g

Environmental conditions	
Degree of pollution	3
Ambient temperature	
<ul><li>during operation / minimum</li></ul>	-25 °C
<ul><li>during operation / maximum</li></ul>	70 °C
<ul> <li>during storage / minimum</li> </ul>	-50 °C
<ul><li>during storage / maximum</li></ul>	80 °C

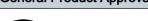
## Certificates

Equipment marking / acc. to DIN EN 61346-2

other

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## **General Product Approval**





Miscellaneous

## 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=3KF4340-0MF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF4340-0MF11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KF4340-0MF11

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications

