SIEMENS

Data sheet 3KF4440-0MF11

SWITCH DISCONNECTOR FUSE 400A, FRAME SIZE 4, 4-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	4
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 ² ·s

 with closed switch / for combination switch + fuse / at 400 V / maximum 	1 205 000 A ² ·s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	1 300 000 A ² ·s
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	1 300 000 A ² ·s
• of the fuse / at 500 V / maximum permissible	2 150 000 A²·s
 of the gG fuse / at 690 V / maximum permissible 	2 600 000 A ² ·s
 of the aM fuse / at 690 V / maximum permissible 	2 600 000 A ² ·s
Mechanical service life (switching cycles) / typical	8 000
Position / of the switch operating mechanism	after the second pole
Fuse system	LV HRC fuse
Overvoltage category	IV
Operating voltage / with current paths in series	
 with degree of pollution 2 / at DC / rated value / Note 	440 / 3
 with degree of pollution 3 / at DC / rated value / Note 	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	
Protection class IP	IP00
Protection class IP	
 with closed switch / with cover or cable lug 	
cover	IP20
	IP20 IP00
cover ● on the front	
cover	
cover • on the front Dissipation	
cover • on the front Dissipation Power loss [W] • with conventional rated thermal current / per	IP00
cover on the front Dissipation Power loss [W] with conventional rated thermal current / per pole with conventional rated thermal current / per	IP00 26 W
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 /	IP00 26 W 78 W
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 /	26 W 78 W 26 W
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 device	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 /	47 000 A
maximum permissible	
Let-through current / with closed switch	
 at 690 V / for combination switch + aM fuse / maximum permissible 	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 	39 400 A
Short-time current resistance (Icw) / at 690 V AC/440	12 kA
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	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	0
contacts	
Number of connected NO contacts / for auxiliary	0
contacts	
Number of connected CO 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	
Voltage trigger	No
undervoltage release	No
 undervoltage release with leading contact 	No
Product feature / sealable	Yes
Product extension	
Auxiliary switch	Yes
optional	
— locking capability	Yes
— motor drive	No
— fuse monitoring	Yes
Product function	
• fuse monitoring	No

Short circuit

Short-circuit current making capacity (lcm) / 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
 Type of connectable conductor cross-sections / for copper busbar 	1x (30x10 mm)
 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x (6 240 mm²), 2x (6 150 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234 	1x (6 240 mm²), 2x (6 150 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	1x (16 185 mm²), 2x (16 150 mm²)
Type of electrical connection	
for main current circuit	flat connector

Mechanical Design	
Height	215 mm
Width	360.1 mm
Depth	206.5 mm
Mounting position	any
Mounting type	floor mounting
Mounting type	
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
rail mounting	No
Net weight	7 650 g

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

Certificates

Equipment marking / acc. to DIN EN 61346-2

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General Product Approval

other





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=3KF4440-0MF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF4440-0MF11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF4440-0MF11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







