SIEMENS

Data sheet

3KF1406-4LB11

switch disconnector fuse 63A, frame size 1, 4-pole for LV HRC Fuse size 000 side operating left basic unit without handle box 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 left
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, NH00
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	10 000
• at AC-23 A / at 690 V / at 50/60 Hz	6 000
• at DC-23 A / at 440 V	1 500
l2t value	
 with closed switch / for combination switch + 	33 200 A ² ·s
fuse / at 500 V / maximum	

 with closed switch / for combination switch + fuse / at 400 V / maximum 	33 200 A²·s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	40 700 A ² ·s
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	40 700 A²·s
 of the fuse / at 500 V / maximum permissible 	34 000 A²·s
● of the gG fuse / at 690 V / maximum permissible	55 000 A²·s
● of the aM fuse / at 690 V / maximum permissible	55 000 A²·s
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	at the left end
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	IP20
Protection class IP	
 with closed switch / with cover or cable lug cover 	IP20
• on the front	IP20
Dissipation	
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
• of the fuse / per fuse / maximum	7.5 W
• maximum	27.6 W
Operating current	

• at AC-21 A / at 400 V / maximum	63 A
• at AC-21 A / at 500 V / maximum	63 A
• at AC-21 A / at 690 V / maximum	63 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	63 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	63 A
/ maximum	
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	63 A
● at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	63 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	63 A
/ maximum	
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	63 A
/ maximum	
• at DC-23 A / at 440 V / rated value / maximum	63 A
• at DC-23 A / at 220 V / rated value / maximum	63 A
• at DC-22 A / at 440 V / rated value / maximum	63 A
• at DC-22 A / at 220 V / rated value / maximum	63 A
• at DC-21 A / at 440 V / rated value / maximum	63 A
• at DC-21 A / at 220 V / maximum	63 A
Continuous current	
rated value	63 A
• at 40 °C / rated value	63 A
• at 45 °C / rated value	63 A
• at 50 °C / rated value	63 A
• at 55 °C / rated value	63 A
• at 60 °C / rated value	63 A
• at 65 °C / rated value	63 A
• at 70 °C / rated value	63 A
Continuous current / at DC / rated value	63 A
Let-through current / of the fuse / at 500 V /	11 800 A
maximum permissible	
Let-through current / of the gG fuse / at 690 V /	11 500 A
maximum permissible	44 500 A
Let-through current / of the aM fuse / at 690 V / maximum permissible	11 500 A
Let-through current / with closed switch	
at 690 V / for combination switch + aM fuse /	11 200 A
maximum permissible	
 at 690 V / for combination switch + gG fuse / 	11 200 A
maximum permissible	
• for combination switch + fuse / at 400 V /	10 400 A
maximum permissible	

 for combination switch + fuse / at 500 V / maximum permissible 	10 400 A
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	2.5 kA
Main circuit	
Operating power / at AC-23 A	
• at 400 V / at 50/60 Hz / rated value	30 kW
• at 500 V / at 50/60 Hz / rated value	37 kW
• at 690 V / at 50/60 Hz / rated value	55 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	0
Number of connected NO contacts / for auxiliary contacts	0
Number of connected CO 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 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	

Object sizes it suggests a bin some site (laws) / for	0.5514
Short-circuit current making capacity (Icm) / for switch disconnector / at 690 V AC/440 V DC / without	3.55 kA
fuse link / rated value / minimum	
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	Top and bottom
current circuit	
Tightening torque / with screw-type terminals	
• minimum	5 N·m
● maximum	6.5 N·m
 Type of connectable conductor cross-sections / 	1x (6 25 mm²)
for copper conductor / finely stranded / with core	
end processing	
 Type of connectable conductor cross-sections / with flexible busbar 	2x (0,8x9 mm)
• Type of connectable conductor cross-sections /	1x (6 25 mm²)
for copper conductor / stranded	
Type of electrical connection	
• for main current circuit	Box terminal
Mechanical Design	
Height	122 mm
Width	203.8 mm
Depth	130.5 mm
Mounting position	any
Mounting type	Floor mounting and snap-on mounting on 35 mm standard mounting rail
Mounting type	
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
● rail mounting	Yes
Net weight	1 750 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	



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=3KF1406-4LB11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF1406-4LB11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF1406-4LB11

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







