SIEMENS

Data sheet

3KF1408-2LB11

SWITCH DISCONNECTOR FUSE 80A, FRAME SIZE 1, 4-POLE FOR LV HRC FUSE SIZE 000 FRONT OPERATING LEFT COMPLETE ASSEMBLY DIRECT OPERATING MECHANISM GREY 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	manual operating mechanism
Design of handle	Direct operating mechanism, gray
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, 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 + fuse / at 500 V / maximum 	33 200 A²·s

 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 A²·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 	2.8 W
 with conventional rated thermal current / per device 	8.4 W
 with conventional rated thermal current / without fuse / per pole 	2.8 W
 with conventional rated thermal current / without fuse / per device 	8.4 W
• of the fuse / per fuse / maximum	8.5 W
• maximum	33.9 W
Operating current	

• at AC-21 A / at 400 V / maximum	80 A
• at AC-21 A / at 500 V / maximum	80 A
• at AC-21 A / at 690 V / maximum	80 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	80 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	80 A
/ maximum	
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	80 A
 at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum 	80 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	80 A
/ maximum	
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	80 A
/ maximum	
• at DC-23 A / at 440 V / rated value / maximum	80 A
• at DC-23 A / at 220 V / rated value / maximum	80 A
• at DC-22 A / at 440 V / rated value / maximum	80 A
• at DC-22 A / at 220 V / rated value / maximum	80 A
• at DC-21 A / at 440 V / rated value / maximum	80 A
• at DC-21 A / at 220 V / maximum	80 A
Continuous current	
rated value	80 A
• at 40 °C / rated value	80 A
• at 45 °C / rated value	80 A
• at 50 °C / rated value	80 A
• at 55 °C / rated value	80 A
• at 60 °C / rated value	80 A
• at 65 °C / rated value	80 A
• at 70 °C / rated value	80 A
Continuous current / at DC / rated value	80 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	37 kW
• at 500 V / at 50/60 Hz / rated value	55 kW
• at 690 V / at 50/60 Hz / rated value	75 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	No
 safety switch 	Yes
 maintenance/repair switch 	Yes
Product feature / interlock	Yes
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	No
— motor drive	No
— fuse monitoring	Yes
Product function	
 fuse monitoring 	No
Short circuit	

Short-circuit current making capacity (Icm) / for	3.55 kA
switch disconnector / at 690 V AC/440 V DC / without 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	Top and bollom
Tightening torque / with screw-type terminals	
• minimum	5 N·m
• maximum	6.5 N·m
Type of connectable conductor cross-sections /	1x (1 16 mm²)
for copper conductor / solid	
 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 /	2x (0,8x9 mm)
with flexible busbar	
 Type of connectable conductor cross-sections / 	1x (6 25 mm²)
for copper conductor / stranded	
Type of electrical connection	
Type of electrical connection	
 for main current circuit 	Box terminal
	Box terminal
• for main current circuit	Box terminal 122 mm
for main current circuit Mechanical Design	
for main current circuit Mechanical Design Height Width Depth	122 mm
for main current circuit Mechanical Design Height Width Depth Mounting position	122 mm 185.5 mm 166 mm any
for main current circuit Mechanical Design Height Width Depth	122 mm 185.5 mm 166 mm
for main current circuit Mechanical Design Height Width Depth Mounting position	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard
for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard
for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment front mounting with central attachment 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No
 for main current circuit 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 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment front mounting with central attachment rail mounting 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment front mounting with central attachment rail mounting Net weight 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes 1 800 g
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment front mounting with central attachment rail mounting Net weight Environmental conditions Degree of pollution 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes 1 800 g
 for main current circuit 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 Ambient temperature 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes 1 800 g
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment front mounting with central attachment rail mounting Net weight Environmental conditions Degree of pollution Ambient temperature during operation / minimum during operation / maximum 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes 1 800 g 3 -25 °C
 for main current circuit Mechanical Design Height Width Depth Mounting position Mounting type front mounting with 4-hole attachment front mounting with central attachment rail mounting Net weight Environmental conditions Degree of pollution Ambient temperature during operation / minimum 	122 mm 185.5 mm 166 mm any Floor mounting and snap-on mounting on 35 mm standard mounting rail No No Yes 1 800 g

Certificates			
Equipment marking /	acc. to DIN EN 61346-2	Q	
General Product	Approval	other	
(m)		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=3KF1408-2LB11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF1408-2LB11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF1408-2LB11

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

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







