SIEMENS

Data sheet 3KF2316-0LF11

Switch disconnector with fuse 160 A, Size 2, 3-pole for LV HRC fuse Sz. 000 and 00 Front operating mechanism left Basic unit without handle flat terminal



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	00 and 000
Size of switch disconnector	2
Size of fuse link	NH000, NH00
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	8 000
• at AC-23 A / at 690 V / at 50/60 Hz	5 000
• at DC-23 A / at 440 V	1 000
I2t value	
 with closed switch / for combination switch + fuse / at 500 V / maximum 	150 600 A ² ·s

 with closed switch / for combination switch + fuse / at 400 V / maximum 	150 600 A²-s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	89 640 A ² ·s
• of the fuse / at 500 V / maximum permissible	223 000 A²·s
 of the gG fuse / at 690 V / maximum permissible 	360 000 A²·s
 of the aM fuse / at 690 V / maximum permissible 	565 000 A ² ·s
Mechanical service life (switching cycles) / typical	12 000
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 %
Operating voltage	
at AC / rated value / maximum	690 V
• at AC / at 50/60 Hz / rated value	690 V
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 pole 	7.2 W
 with conventional rated thermal current / per device 	21.6 W
 with conventional rated thermal current / without fuse / per pole 	7.2 W
 with conventional rated thermal current / without fuse / per device 	21.6 W
 for rated value of the current / at AC / in hot operating state / per pole 	7.2 W

• of the fuse / per fuse / maximum	12 W
Operating current	
• at AC-21 A / at 400 V / maximum	160 A
 at AC-21 A / at 500 V / maximum 	160 A
 at AC-21 A / at 690 V / maximum 	160 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	160 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	160 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	160 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	160 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	160 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	160 A
• at DC-23 A / at 440 V / rated value / maximum	160 A
• at DC-23 A / at 220 V / rated value / maximum	160 A
• at DC-22 A / at 440 V / rated value / maximum	160 A
• at DC-22 A / at 220 V / rated value / maximum	160 A
• at DC-21 A / at 440 V / rated value / maximum	160 A
• at DC-21 A / at 220 V / maximum	160 A
Continuous current	
• rated value	160 A
• at 40 °C / rated value	160 A
• at 45 °C / rated value	160 A
• at 50 °C / rated value	160 A
• at 55 °C / rated value	160 A
• at 60 °C / rated value	160 A
• at 65 °C / rated value	160 A
• at 70 °C / rated value	160 A
Continuous current / at DC / rated value	160 A
Let-through current / of the fuse / at 500 V / maximum permissible	18 000 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	25 500 A
Let-through current / of the aM fuse / at 690 V / maximum permissible	33 200 A
Let-through current / with closed switch ■ at 690 V / for combination switch + aM fuse / maximum permissible	27 300 A

 at 690 V / for combination switch + gG fuse / maximum permissible 	16 870 A
 for combination switch + fuse / at 400 V / maximum permissible 	18 200 A
 for combination switch + fuse / at 500 V / maximum permissible 	18 200 A
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	5 kA

ain circuit Operating power / at AC-23 A	
Operating power / at AC-23 A	
• at 400 V / at 50/60 Hz / rated value 9	90 kW
• at 500 V / at 50/60 Hz / rated value	110 kW
• at 690 V / at 50/60 Hz / rated value	132 kW
uxiliary 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	J
Number of CO contacts / for auxiliary contacts 0	
Number of NC contacts / for auxiliary contacts 6	
Number of NO contacts / for auxiliary contacts 6	6
Suitability for use	
Main switch Y	⁄es
• switch disconnector Y	⁄es
• EMERGENCY OFF switch Y	⁄es
• safety switch Y	⁄es
• maintenance/repair switch Y	′es
Product feature / interlock N	No
Product component	
 Phase failure monitoring 	No
 Voltage trigger 	No
• undervoltage release N	No
• undervoltage release with leading contact N	No
Product feature / sealable Y	/es
Product extension	
Auxiliary switch Y	res
• optional	
— locking capability Y	/es
— motor drive N	No
— fuse monitoring Y	fes

Product function	
• fuse monitoring	No
Overvoltage protection 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	7.65 kA
Connections	
Arrangement of electrical connectors / for main current circuit	Top and bottom
Tightening torque / with screw-type terminals	15 22 N·m
 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x (2.5 95 mm²), 2x (2.5 50 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234 	1x (2.5 95 mm²), 2x (2.5 50 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	1x (25 70 mm²), 2x (25 50 mm²)
Type of electrical connection	
for main current circuit	flat connector
	150 mm
Mechanical Design	150 mm 190 mm
Mechanical Design Height	
Mechanical Design Height Width	190 mm
Mechanical Design Height Width Depth	190 mm 161.5 mm
Mechanical Design Height Width Depth Mounting type	190 mm 161.5 mm
Mechanical Design Height Width Depth Mounting type Mounting type	190 mm 161.5 mm floor mounting
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment	190 mm 161.5 mm floor mounting No
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment	190 mm 161.5 mm floor mounting No No
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting	190 mm 161.5 mm floor mounting No No No
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting Mounting position	190 mm 161.5 mm floor mounting No No No No any
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting Mounting position Net weight	190 mm 161.5 mm floor mounting No No No No any
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting Mounting position Net weight Environmental conditions	190 mm 161.5 mm floor mounting No No No No any
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting Mounting position Net weight Environmental conditions Ambient temperature	190 mm 161.5 mm floor mounting No No No No any 2 200 g
Mechanical Design Height Width Depth Mounting type Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting Mounting position Net weight Environmental conditions Ambient temperature • during operation	190 mm 161.5 mm floor mounting No No No any 2 200 g

• acc. to DIN EN 61346-2

• acc. to DIN EN 81346-2

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General Product Approval Declaration of other Conformity





Miscellaneous



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=3KF2316-0LF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF2316-0LF11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2316-0LF11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









