SIEMENS

Data sheet 3KF4340-0MF11



Switch disconnector with fuse 400 A, Size 4, 3-pole for LV HRC fuse Sz. 1 and 2 Front operating mechanism center Basic unit without handle flat terminal

Model	
product brand name	SENTRON
design of the product	3KF switch disconnector with fuses
product variations	3KF NH
design of the actuating element	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
mechanical service life (switching cycles) / typical	8 000
electrical endurance (switching cycles)	
• at AC-23 A / at 440 V	3 000
• at AC-23 A / at 690 V	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 A²-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 A²-s
of the fuse / at 500 V / maximum permissible	2 150 000 A ² ·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
fuse system	LV HRC fuse
overvoltage category	IV
operating voltage / with current paths in series	
 with degree of pollution 2 / at DC / rated value 	440 / 3
 with degree of pollution 3 / at DC / rated value 	440 / 3
surge voltage resistance / rated value	12 kV
Supply voltage	
operating voltage / at AC / rated value / maximum	690 V
Protection class	
protection class IP	IP00
protection class IP	
with closed switch / with cover or cable lug cover	IP20
• on the front	IP00

Dissipation	
power loss [W]	
with conventional rated thermal current / per pole	26 W
with conventional rated thermal current / per device	78 W
with conventional rated thermal current / without	26 W
fuse / per pole	
 with conventional rated thermal current / without fuse / per device 	78 W
 for rated value of the current / at AC / in hot operating state / per pole 	26 W
of the fuse / per fuse / maximum	34 W
operational current	
 at 35 °C / 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
at AC / rated value	400 A
• at AC-21 A / at 500 V / rated value	400 A
at AC-21 A / at 690 V / rated value	400 A
• at DC-23 A / at 440 V / rated value / note	400 A
• at DC-23 A / at 220 V / rated value / note	400 A
• at DC-22 A / at 440 V / rated value / note	400 A
at DC-22 A / at 220 V / rated value / note	400 A
at DC-21 A / at 440 V / rated value / note	400 A
at DC-21 A / at 220 V / rated value	400 A
operational 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	
 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 withstand current (lcw) / at 690 V AC/440 V DC / limited to 1 s / rated value	12 kA
Main circuit	
operating power / at AC-23 A / at 500 V / rated value	280 kW
operational current / rated value	400 A
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
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	8
number of NO contacts / for auxiliary contacts	8
suitability for use	
main switch	Yes
switch disconnector	Yes
 EMERGENCY OFF switch 	Yes
safety switch	Yes

Ses **Product function / plase failure monitoring	maintenance/repair switch	Yes	
Product function / phase failure monitoring Product component / voltage trigger Product component / voltage trigger Product component / voltage release Product component / undervoltage release Product desture / sealabile Product function • Use monitoring • Indiaminum • Monitoring • Indiaminum • Use monitoring • Indiaminum • Indiaminum • Indiaminum • Product function • Indiaminum • Indiaminu	·		
product component /voltage trigger	'		
Product component / undervoltage release with leading contact	-		
product component / undervoltage release with leading contact product extension / optional product extension / optional locking capability			
leading contact product extension / auxiliary switch product extension / auxiliary switch product extension / apxiliary switch product extension / apxiliary index drive incord drive incor			
product extension / auxiliary switch product extension / optional locking capability motor drive luse monitoring foreduct function fuse monitoring No voeveroitage protection monitoring No Short circuit Short circuit current making capacity (tem) / for 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		No	
product extension / optional ocking capability ves indoor drive vise monitoring ves product function vise monitoring ves overvoltage protection monitoring No overvoltage protection monitoring No Short circuit short-circuit current making capacity (tem) / for switch disconnector / a 1690 V AC440 V DC / without fuse link / rated value / minimum vated value / with screw-type terminals value / minimum vated value / minimum vated value / with value / value vated value / value / value / value vated value / value / value / value vated value / v	product feature / sealable	Yes	
I locking capability motor drive if use monitoring ves ves monitoring ves vervoltage protection monitoring vovervoltage protection monitoring No 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 conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 600 V / by gG fuse / rated value tightening torque / with screw-type terminals management of electrical connectors / for main current circuit dightening torque / with screw-type terminals minimum maximum maximum monductor / stranded / with lug yibpe of connectable conductor cross-sections for copper busbar lype of connectable conductor rors-sections for copper busbar lype of connectable conductor rors-sections for comper busbar lype of connectable conductor rors-sections flat connector life (i 185 mm²), 2x (6 150 mm²) life (i 185 m	product extension / auxiliary switch	Yes	
	product extension / optional		
• fuse monitoring	 locking capability 	Yes	
product function • fuse monitoring • covervoltage protection monitoring No Short circuit short circuit current making capacity (tem) / for switch disconnector / at 800 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 • at 600 V / by gG fuse / rated value • minimum • maximum 44 N m 44 N m 44 N m 45 V (6 150 mm²) 1x (30 x 10 mm²) 1x (3	 motor drive 	No	
Short circuit short-circuit current making capacity (icm) / for switch disconnector / at 890 V AC/440 V DC / without fuse link / rated value / minimum conditions abort-circuit current / with line-side fuse protection at 600 V / by gG fuse / rated value 100 kA 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 kA 160 V / by gG fuse / rated value 100 V / by gGG fuse / rated value 100 V / by gGG fuse / rated value 100 V / by gG fuse / rated value 100 V / by gGG fuse / rated value 100 V / by gG fuse / rated value 100 V / by gGG fuse / rated value 100	fuse monitoring	Yes	
Short circuit Short-circuit current making capacity (cmr) / for 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 600 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value by 690 fuse / rated value and 690 fuse / rated value at 690 V / by gG fuse / rated value by 690 for onnectable conductor cross-sections / for aluminum conductor / stranded / with lug by 690 for onnectable conductor cross-sections for copper busbar by 690 for onnectable conductor cross-sections for copper busbar by 690 for onnectable conductor cross-sections for copper busbar by 690 for onnectable conductor cross-sections for copper busbar by 690 for onnectable conductor cross-sections for copper 690 fuse / stranded / with lug / acc. to DIN 46234 by 690 fuse / stranded / with lug / acc. to DIN 46235 by 690 felectrical connection / for main current circuit flat connector Micchanical Design beight 215 mm width 288.1 mm depth 288.1 mm depth 288.1 mm depth 288.1 mm depth 288.1 mm floor mounting floor mounting arill mounting with central attachment arill mounting with central attachment arill mounting with central attachment and 6150 g Environmental conditions ambient temperature / during operation minimum amabient temperature / during operation minimum amabient temperature / during storage minimum min	product function		
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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 Connectlons arrangement of electrical connectors / for main current circuit lightening torque / with screw-type terminals	Short circuit		
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type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug type of connectable conductor cross-sections • for copper busbar		30 N·m	
aluminum conductor / stranded / with lug type of connectable conductor cross-sections	• maximum	44 N·m	
type of connectable conductor cross-sections • for copper busbar type of connectable conductor cross-sections / for copper conductor • stranded / with lug / acc. to DIN 46234 • stranded / with lug / acc. to DIN 46235 type of electrical connection / for main current circuit Mechanical Design height width depth 206.5 mm fastening method 4-hole front mounting • front mounting with central attachment • rail mounting mounting position net weight Environmental conditions ambient temperature / during operation • minimum • maximum -25 °C 70 °C General Product Approval Declaration of		1x (6 240 mm²), 2x (6 150 mm²)	
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stranded / with lug / acc. to DIN 46234 stranded / with lug / acc. to DIN 46235 type of electrical connection / for main current circuit Mechanical Design	type of connectable conductor cross-sections / for copper	1X (30 X 10 111111)	
stranded / with lug / acc. to DIN 46235 type of electrical connection / for main current circuit flat connector Mechanical Design		4 (0 040 3) 0 (0 450 3)	
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Mechanical Design			
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 minimum -50 °C maximum 80 °C General Product Approval Declaration of	• maximum	70 °C	
• maximum 80 °C General Product Approval Declaration of	ambient temperature / during storage		
General Product Approval	• minimum	-50 °C	
Ganarai Product Annroval	• maximum	80 °C	
	General Product Approval		





Miscellaneous







Marine / Shipping

other





Miscellaneous

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











