SIEMENS

Data sheet

3NP1133-1BC20



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A 60MM BUSBAR SYSTEM COVER LEVEL 32/70 MM BOX TERMINAL

Model	
product brand name	SENTRON
Product designation	Fuse switch disconnector
Design of the product	3-pole
Busbar design	busbar thickness 5 or 10 mm
Design of the operating mechanism	handle unit
Design of the load switch / Strip form	No
Type of the driving mechanism / motor drive	No

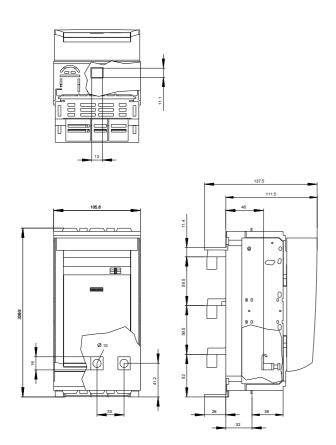
General technical data		
Number of poles		3
Type of device		snap on mount on busbar system Siemens 8US 60
		mm
Size of disconnecting link	-	00 and 000
Size of fuse link		NH000, NH00
Continuous current / at 35 °C / Rated value	А	160
Let-through current / with closed switch / maximum	kA	23
permissible		
cut-off value I**2t,max. / 500 V	A²⋅s	158 000
I2t value / with closed switch / maximum permissible	kA2.s	158
Power factor		
• at AC-22 B		0.65
• at AC-23 B		0.45
 with capacitive load 		-0.25
circuit-breaker / Design		3NP11
Mechanical service life (switching cycles) / typical		2 000

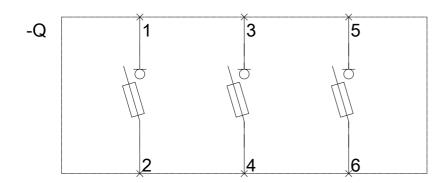
Fuse system		LV HRC fuse
Voltage		
Insulation voltage / Rated value	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		
 with closed switch / with cover or cable lug 		IP40
cover		1700
with closed switch / without cover or cable lug		IP30
 on the front 		IP40
		IP20
● open		IP20
Dissipation		
Active power loss		
• maximum	W	12
Electricity		
Continuous current		
Rated value	А	160
● at 40 °C / Rated value	А	155
● at 45 °C / Rated value	А	145
• at 50 °C / Rated value	А	140
• at 55 °C / Rated value	А	133
Let-through current / with high-speed activation / maximum permissible	kA	15
Let-through current / Ic / maximum permissible		
• 400 V	А	23 000
• 500V	А	23 000
cut-off value I**2t,max. / 400 V	A ² ·s	158 000
Main circuit Operating voltage		
with AC / Rated value / maximum	V	690
for DC / Rated value	v	440
	V	440
for DC / Rated value / maximum	V	עדר
Operating current	А	160
 at AC-21 B / at 400 V / Rated value at AC-21 B / at 500 V / Rated value 		160
at AC-21 B / at 500 V / Rated value	A	
at AC-21 B / at 690 V / Rated value	A	160
• at AC-22 B / at 400 V / Rated value	A	160
• at AC-22 B / at 500 V / Rated value	A	160

• at AC-22 B / at 690 V / Rated value	А	125
• at AC-23 B / at 400 V / Rated value	А	160
• at AC-23 B / at 500 V / Rated value	А	63
• at AC-23 B / at 690 V / Rated value	А	35
• at DC-21 B / at 240 V / Rated value / maximum	А	160
• at DC-21 B / at 440 V / Rated value / maximum	A	160
• at DC-22 B / at 240 V / Rated value / maximum	A	160
• at DC-22 B / at 440 V / Rated value / maximum	А	125
• at DC-23 B / at 240 V / Rated value / maximum	А	100
• at DC-23 B / at 440 V / Rated value / maximum	A	63
 with capacitive load / at 400 V / maximum 	А	72
 with capacitive load / at 500 V / maximum 	А	55
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
0.4.1.1.1.1.	_	
Suitability Suitability for use	_	
Main switch		No
switch disconnector		Yes
EMERGENCY OFF switch		No
safety switch		Yes
maintenance/repair switch		Yes
Product details	_	
Product feature / interlock		Yes
Product component		N
• Trip indicator		No
Phase failure monitoring		No
undervoltage release		No
undervoltage release with leading contact		No
Product property / sealable		Yes
Product expansion		Yes
Auxiliary switch		Tes
• optional		Vac
— locking capability		Yes
— motor drive		No
— Phase failure monitoring		Yes
— fuse monitoring		Yes
— Voltage trigger		No
 Overvoltage protection monitoring 		Yes

Product function		
Product function		
• fuse monitoring		No
 Overvoltage protection monitoring 		No
	_	
Short circuit		
Conditional short-circuit current (Iq)	1- 0	00
Rated value	kA	80
 with AC / at 500 V / with high-speed activation / Rated value 	kA	80
 with AC / at 690 V / with high-speed activation / Rated value 	kA	80
 with closed switch / with AC / at 500 V / Rated value 	kA	120
 with closed switch / with AC / at 690 V / Rated value 	kA	120
Compositions	_	
Connections Arrangement of electrical connectors / for main		other
current circuit		
Connectable conductor cross-section / for main contacts		
 single or multi-stranded / minimum 	mm²	6
 single or multi-stranded / maximum 	mm²	70
 finely stranded / with core end processing / minimum 	mm²	6
 finely stranded / with core end processing / maximum 	mm²	50
 stranded / minimum 	mm²	6
 stranded / maximum 	mm²	70
Tightening torque / with screw-type terminals		
• minimum	N∙m	10
• maximum	N∙m	10
Type of connectable conductor cross-section / of the laminated conductors / maximum		9 x 8 mm
Type of electrical connection / for main current circuit		box terminals
Mechanical Design		
Height	mm	210.4
Width	mm	105.8
Depth	mm	137.5
mounting position		horizontally or vertically
Mounting type		busbar mounting
Mounting type		
• floor mounting		No

• front mounting			No		
 front mounting with 4-hole attach 	iment		No		
 front mounting with central attach 	nment		No		
• rail mounting			Yes		
Busbar center-to-center spacing		mm	60		
Net weight		kg	0.98		
-					
invironmental conditions		_			
Degree of pollution		_	3		
Ambient temperature		°C	05		
during operation / minimum		-	-25		
 during operation / maximum 		°C	55		
 during storage / minimum 		°C	-50		
 during storage / maximum 		°C	80		
Certificates					
Equipment marking					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General Product Approval			1		Declaration of Conformity
					Comonnity
CB (CC)	PG	(FAL	CE
	GOST	(EHE	EG-Konf.
CB CCC	GOST	(EHE	EG-Konf.
CB CCC CCC	GOST Shipping A	Approval		EHC	EG-Konf.
Test Certificates Special Test Type Test	Shipping A	Approval	UL	EAC	EG-Konf.
Special Test Type Test Certificate Certificates/Test				Lloyd's Kegister	EG-Konf.
Test Certificates Special Test Type Test	Shipping A		L	Register	EG-Konf.
Special Test Type Test Certificate Certificates/Test	Shipping A				EG-Konf.
Special Test Type Test Certificate Certificates/Test	Shipping A		L	Register	EG-Konf.
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