SIEMENS

Data sheet

3NP1133-1BC21



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

Model			
product brand name	SENTRON		
Product designation	Fuse switch disconn	ector	
Design of the product	3-pole		
Busbar design	busbar thickness 5 c	or 10 mm	
Design of the safety monitoring	electro mechanical		
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 b mm	usbar system Siemens 8US 60	

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 permissible	kA	23
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 cover 		IP40
 with closed switch / without cover or cable lug cover 		IP30
• on the front		IP40
• 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	A²·s	158 000
Main circuit		
Operating voltage		
 with AC / Rated value / minimum 	V	24
 with AC / Rated value / maximum 	V	690
 for DC / Rated value 	V	250
 for DC / Rated value / minimum 	V	24
 for DC / Rated value / maximum 	V	250
Operating current		
• at AC-21 B / at 400 V / Rated value	А	160
• at AC-21 B / at 500 V / Rated value	А	160
• at AC-21 B / at 690 V / Rated value	А	160

• at AC-22 B / at 400 V / Rated value	А	160
• at AC-22 B / at 500 V / Rated value	А	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	А	160
• at DC-22 B / at 240 V / Rated value / maximum	А	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	А	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
	_	
Suitability Suitability for use		
Main switch		No
switch disconnector		Yes
EMERGENCY OFF switch		No
safety switch		Yes
maintenance/repair switch		Yes
		165
Product details		
Product feature / interlock		Yes
Product component		
Trip indicator		Yes
Phase failure monitoring		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property / sealable		Yes
Product expansion		
Auxiliary switch		Yes
• optional		
— locking capability		Yes
— motor drive		No
— Phase failure monitoring		Yes
— Voltage trigger		No

- Overvoltage protection monitoring		Yes
Product function		
Product function		
 fuse monitoring 		Yes
 Overvoltage protection monitoring 		No
Short circuit		
Conditional short-circuit current (Iq)		
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
Connections		
Arrangement of electrical connectors / for main current circuit		other
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		9 x 8 mm
laminated conductors / maximum		
Type of electrical connection / for main current circuit		box terminals
Mechanical Design		
Height	mm	210.4
Width	mm	105.8
Depth	mm	216.5
mounting position		horizontally or vertically
Mounting type		busbar mounting
Mounting type		

 floor mounting 				No		
 front mounting 				No		
 front mounting with 4-hole attachment 			No			
• front mounting	with central attachm	ent		No		
 rail mounting 				Yes		
Busbar center-to-cen	ter spacing		mm	60		
nvironmental cond	itions					
Ambient temperature)					
 during operatio 	n / minimum		°C	-25		
 during operatio 	n / 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					
СВ		GOST	(GAN ® UR	EHC
Declaration of	Test	Shipping /	Approval			
Conformity	Certificates					
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Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11331BC21

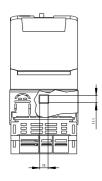
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11331BC21/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11331BC21

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Tender specifications

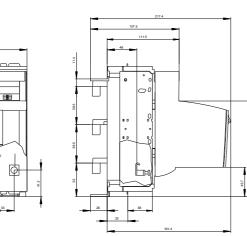
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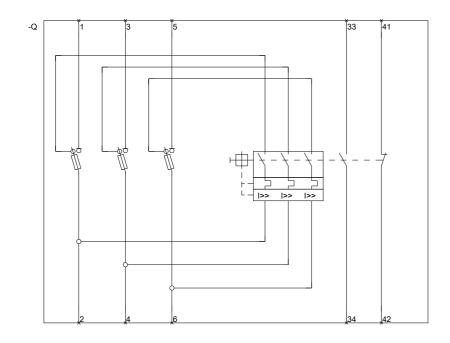


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