SIEMENS

Data sheet

3NP1133-1JB12



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A 40MM BUSBAR SYSTEM COVERS FOR RITTAL FLAT CONNECTOR FUSE MONITORING ELECTRONIC, EFM 10

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 safety monitoring		electronic EFM 10		
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 Rittal 40 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 		IP40
cover		
 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	230
 with AC / Rated value / maximum 	V	690
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	A	160
 at AC-23 B / at 500 V / Rated value 	А	63
• at AC-23 B / at 690 V / Rated value	А	35
 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
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		other
current circuit		
Connectable conductor cross-section / for main		
contacts		
 single or multi-stranded / minimum 	mm²	2.5
 single or multi-stranded / maximum 	mm²	95
• stranded / minimum	mm²	2.5
 stranded / maximum 	mm²	95
Tightening torque / with screw-type terminals		
• minimum	N∙m	10
• maximum	N∙m	12
Type of electrical connection / for main current circuit		flat connector

mm	215.1
mm	105.8
mm	174.4
horizontally or vertically	
	busbar mounting
	No
	No
	No
	No
	Yes
mm	40
	mm

Ambient temperature			
 during operation / minimum 	°C	-25	
 during operation / maximum 	°C	55	
 during storage / minimum 	°C	-50	
 during storage / maximum 	°C	80	

Certificates

Equipment marking acc. to DIN EN acc. to DIN EN 			Q Q		
General Product Approval					
СВ		GOST	UR		EHC
Declaration of Conformity	Test Certificates	Shipping Approval			
	Type Test				

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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11331JB12

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11331JB12/all

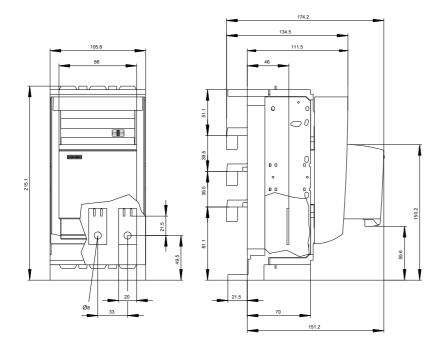
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11331JB12

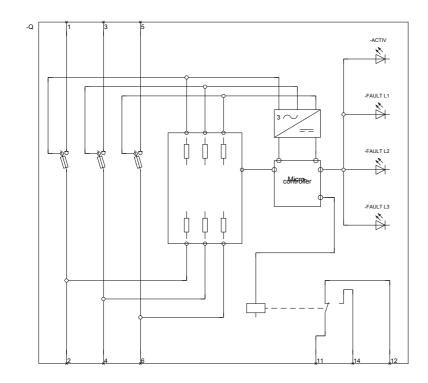
DINV

DNV

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

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





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