## **SIEMENS**

Data sheet 3NP1133-1JC10



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A 60MM BUSBAR SYSTEM COVERS FOR RITTAL FLAT CONNECTOR

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 eib Rittal 60 mm
Size of disconnecting link		00 and 000
Size of fuse link		NH000, NH00
Continuous current / at 35 °C / Rated value	Α	160
Let-through current / with closed switch / maximum permissible	kA	23
cut-off value I**2t,max. / 500 V	A <sup>2</sup> ·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					
Protection class IP						
<ul><li>with closed switch / with cover or cable lug</li></ul>		IP40				
cover						
with closed switch / without cover or cable lug		IP30				
cover		IP40				
• on the front		IP20				
• open		IP20				
Dissipation						
Active power loss						
• maximum	W	12				
Electricity						
Continuous current						
Rated value	Α	160				
• at 40 °C / Rated value	Α	155				
• at 45 °C / Rated value	Α	145				
• at 50 °C / Rated value	Α	140				
• at 55 °C / Rated value	Α	133				
Let-through current / with high-speed activation / maximum permissible	kA	15				
Let-through current / Ic / maximum permissible						
• 400 V	Α	23 000				
• 500V	Α	23 000				
cut-off value I**2t,max. / 400 V	A²·s	158 000				
Main circuit						
Operating voltage						
<ul><li>with AC / Rated value / maximum</li></ul>	V	690				
• for DC / Rated value	V	440				
• for DC / Rated value / maximum	V	440				
Operating current						
• at AC-21 B / at 400 V / Rated value	Α	160				
• at AC-21 B / at 500 V / Rated value	Α	160				
• at AC-21 B / at 690 V / Rated value	Α	160				
• at AC-22 B / at 400 V / Rated value	Α	160				
• at AC-22 B / at 500 V / Rated value	Α	160				
• at AC-22 B / at 690 V / Rated value	Α	125				
• at AC-23 B / at 400 V / Rated value	Α	160				

<ul> <li>at AC-23 B / at 500 V / Rated value</li> <li>at AC-23 B / at 690 V / Rated value</li> <li>at DC-21 B / at 240 V / Rated value / maximum</li> </ul>	A A	63 35
	Α	25
• at DC-21 B / at 240 V / Rated value / maximum		33
	Α	160
• at DC-21 B / at 440 V / Rated value / maximum	Α	160
• at DC-22 B / at 240 V / Rated value / maximum	Α	160
• at DC-22 B / at 440 V / Rated value / maximum	Α	125
• at DC-23 B / at 240 V / Rated value / maximum	Α	100
• at DC-23 B / at 440 V / Rated value / maximum	Α	63
• with capacitive load / at 400 V / maximum	Α	72
• with capacitive load / at 500 V / maximum	Α	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
<ul> <li>EMERGENCY OFF switch</li> </ul>		No
safety switch		Yes
maintenance/repair switch		Yes
Product details		
Product feature / interlock		Yes
Product component		
Trip indicator		No
Phase failure monitoring		No
• undervoltage release		No
undervoltage release with leading contact		No
Product property / sealable		Yes
Product expansion		
Auxiliary switch		Yes
• optional		
<ul><li>— locking capability</li></ul>		Yes
— motor drive		No
<ul> <li>Phase failure monitoring</li> </ul>		Yes
— fuse monitoring		Yes
— Voltage trigger		No
<ul> <li>Overvoltage protection monitoring</li> </ul>		Yes
Product function		
Product function		

Short circuit Conditional short-drout current (Iq)  Rated value  with AC / at 500 V / with high-speed activation / Rated value  with AC / at 690 V / with high-speed activation / Rated value  with AC / at 690 V / with high-speed activation / Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 500 V / Rated value  connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main contacts  single or multi-stranded / minimum  single or multi-stranded / maximum  stranded / Imaximum  Tightening forque / with screw-type terminals  minimum  maximum  Tightening forque / with screw-type terminals  minimum  maximum  Nrm 10  Nrm 12  Type of electrical connection / for main current circuit  Mechanical Design  Height  mm 215.1  Worth  mounting type  floor mounting  front mounting  front mounting with 4-hole attachment  front mounting with central attachment  rail mounting  whose in the first mounting with central attachment  rail mounting  Row A 80  RA 120  25  86  120  120  120  120  120  120  120  12	• fuse monitoring		No		
Conditional short-circuit current (iq)  Rated value  with AC / at 500 V / with high-speed activation / Rated value  with AC / at 500 V / with high-speed activation / Rated value  with AC / at 500 V / with high-speed activation / Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 690 V / Rated value  with closed switch / with AC / at 690 V / Rated value  with closed switch / with AC / at 690 V / Rated value  Connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main current circuit  Connectable conductor cross-section / for main current circuit  single or multi-stranded / minimum mm² 2.5  single or multi-stranded / maximum mm² 95  stranded / minimum 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  Mechanical Design  Height mm 134.5  Depth mm 134.5  mounting type  floor mounting for front mounting with 4-hole attachment for all mounting front mounting with central attachment for all mounting front mounting with central attachment for all mounting for conditions	<ul> <li>Overvoltage protection monitoring</li> </ul>	Overvoltage protection monitoring			
Conditional short-circuit current (iq)  Rated value  with AC / at 500 V / with high-speed activation / Rated value  with AC / at 500 V / with high-speed activation / Rated value  with AC / at 500 V / with high-speed activation / Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 690 V / Rated value  with closed switch / with AC / at 690 V / Rated value  with closed switch / with AC / at 690 V / Rated value  Connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main current circuit  Connectable conductor cross-section / for main current circuit  single or multi-stranded / minimum mm² 2.5  single or multi-stranded / maximum mm² 95  stranded / minimum 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  Mechanical Design  Height mm 134.5  Depth mm 134.5  mounting type  floor mounting for front mounting with 4-hole attachment for all mounting front mounting with central attachment for all mounting front mounting with central attachment for all mounting for conditions	Short circuit				
with AC / at 500 V / with high-speed activation / Rated value     with AC / at 690 V / with high-speed activation / Rated value     with closed switch / with AC / at 500 V / Rated value     with closed switch / with AC / at 690 V / Rated value     with closed switch / with AC / at 690 V / Rated value     with closed switch / with AC / at 690 V / Rated value  Connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main current circuit  Single or multi-stranded / minimum     single or multi-stranded / maximum     stranded / maximum     mm²    95     stranded / minimum     stranded / maximum     mm²    95  Tightening torque / with screw-type terminals     minimum     hemaximum  Type of electrical connection / for main current circuit  Mechanical Design Height     mm					
Rated value  with AC / at 690 V / with high-speed activation / Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 690 V / Rated value  with closed switch / with AC / at 690 V / Rated value  Connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main contacts  single or multi-stranded / minimum mm² 95  single or multi-stranded / maximum mm² 95  stranded / minimum 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  Mechanical Design  Height mm 215.1  Width mm 134.5  mounting position horizontally or vertically  Mounting type  floor mounting front mounting with 4-hole attachment front mounting front mounting front mounting frail mounting frail mounting frail mounting frail mounting frail mounting flat connector No  No No No No No No No Service described attachment Front mounting with central attachment Front mounting with central attachment Frail mounting Front mounti	Rated value	kA	¢A 80		
Rated value  with closed switch / with AC / at 500 V / Rated value  with closed switch / with AC / at 690 V / Rated value  with closed switch / with AC / at 690 V / Rated value   Connections  Arrangement of electrical connectors / for main 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 95  • 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  Mechanical Design  Height mm 105.8  Depth mm 105.8  Depth mm 134.5  mounting position  Mounting type  • floor mounting  • front mounting  • front mounting  • front mounting  • ront mounting  • ront mounting  • ront mounting  • rail mounting  • rail mounting  Busbar center-to-center spacing mm 60  Environmental conditions		kA	80		
value  with closed switch / with AC / at 690 V / Rated value  Connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main contacts  single or multi-stranded / minimum stranded / minimum stranded / minimum stranded / maximum mm² 95  winder minimum stranded / maximum mm² 95  Tightening torque / with screw-type terminals minimum maximum Nrm 10 maximum Nrm 12  Type of electrical connection / for main current circuit  Mechanical Design  Height mm 105.8 Depth mm 105.8 Depth mm 105.8 Depth mm 134.5 mounting type floor mounting floor mounting front mounting mm 60  Environmental conditions		kA	80		
value  Connections  Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main contacts  • single or multi-stranded / minimum • stranded / minimum • stranded / maximum  • stranded / maximum  Tightening torque / with screw-type terminals • minimum • maximum  N·m  10 • maximum  N·m  12  Type of electrical connection / for main current circuit  Mechanical Design  Height  mm  215.1  Width  mm  105.8  Depth  mm  134.5  mounting position  Mounting type  • floor mounting • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing  mother of the rail mounting  mm  60  Environmental conditions		kA	120		
Arrangement of electrical connectors / for main current circuit  Connectable conductor cross-section / for main contacts  • single or multi-stranded / minimum		kA	120		
current circuit  Connectable conductor cross-section / for main contacts  • single or multi-stranded / minimum	Connections				
contacts  • single or multi-stranded / minimum  • single or multi-stranded / maximum  • single or multi-stranded / maximum  • stranded / minimum  • stranded / maximum  mm²  2.5  • stranded / maximum  mm²  95  Tightening torque / with screw-type terminals  • minimum  • maximum  N·m  10  • maximum  N·m  12  Type of electrical connection / for main current circuit  Mechanical Design  Height  mm  105.8  Depth  mm  134.5  mounting position  Mounting type  • floor mounting  • front mounting  • front mounting with 4-hole attachment  • front mounting with central attachment  • rail mounting  Busbar center-to-center spacing  mm  60  Environmental conditions			other		
single or multi-stranded / maximum		-			
stranded / minimum     stranded / maximum      stranded / maximum      mm²     95  Tightening torque / with screw-type terminals     • minimum     • maximum     N·m     10      • maximum     N·m     12  Type of electrical connection / for main current circuit  Mechanical Design  Height     mm     215.1  Width     mm     105.8  Depth     mm     134.5  mounting position  Mounting type      • floor mounting     • front mounting     • front mounting with 4-hole attachment     • rail mounting     • rail mounting  Busbar center-to-center spacing  mm     10  No  No  No  Service Mexicular Service  PS  No  No  No  No  No  No  No  No  No  N	• single or multi-stranded / minimum	mm²	2.5		
stranded / maximum     Tightening torque / with screw-type terminals         • minimum         • maximum         • N·m 12  Type of electrical connection / for main current circuit  Mechanical Design Height	• single or multi-stranded / maximum	mm²	95		
Tightening torque / with screw-type terminals  • minimum  • maximum  N·m  10  N·m  12  Type of electrical connection / for main current circuit  Mechanical Design  Height  mm  215.1  Width  mm  105.8  Depth  mm  134.5  mounting position  Mounting type  • floor mounting  • front mounting  • front mounting with 4-hole attachment  • front mounting  • rail mounting  • rail mounting  Busbar center-to-center spacing  M·m  10  No  12  Type of electrical connector  flat connector  flat connector  flat connector  flat connector  flat connector  No  12  Type of electrical connector  flat conne	• stranded / minimum	mm²	2.5		
minimum     maximum     Type of electrical connection / for main current circuit      Mechanical Design Height     mm	• stranded / maximum	mm²	95		
● maximum  Type of electrical connection / for main current circuit    Mechanical Design	Tightening torque / with screw-type terminals	-			
Type of electrical connection / for main current circuit  Mechanical Design  Height  Width  mm  105.8  Depth  mm  134.5  mounting position  Mounting type  • floor mounting • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing  mm  flat connector  mm  60  Environmental conditions	• minimum	N·m	10		
Height mm 215.1  Width mm 105.8  Depth mm 134.5  mounting position horizontally or vertically  Mounting type busbar mounting  • floor mounting • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing mm 60  Environmental conditions	• maximum	N·m	12		
Height mm 215.1  Width mm 105.8  Depth mm 134.5  mounting position horizontally or vertically  Mounting type busbar mounting  • floor mounting • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing mm 60  Environmental conditions	Type of electrical connection / for main current circuit		flat connector		
Width mm 105.8  Depth mm 134.5  mounting position horizontally or vertically  Mounting type busbar mounting  • floor mounting • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing mm 60  Environmental conditions	Mechanical Design				
Depth mm 134.5  mounting position horizontally or vertically  Mounting type busbar mounting  • floor mounting No • front mounting No • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing mm 60  Environmental conditions	Height	mm	215.1		
mounting position     horizontally or vertically       Mounting type     busbar mounting       • floor mounting     No       • front mounting with 4-hole attachment     No       • front mounting with central attachment     No       • rail mounting     Yes       Busbar center-to-center spacing     mm       Environmental conditions	Width	mm	105.8		
Mounting type  • floor mounting • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting  Busbar center-to-center spacing  busbar mounting  No  No  No  No  Yes  Environmental conditions	Depth	mm	134.5		
Mounting type  • floor mounting  • front mounting  • front mounting with 4-hole attachment  • front mounting with central attachment  • rail mounting  Busbar center-to-center spacing  mm  60	mounting position		horizontally or vertically		
<ul> <li>floor mounting</li> <li>front mounting</li> <li>front mounting with 4-hole attachment</li> <li>front mounting with central attachment</li> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>Busbar center-to-center spacing</li> <li>Environmental conditions</li> </ul> No Yes Busbar center-to-center spacing mm 60			busbar mounting		
<ul> <li>front mounting</li> <li>front mounting with 4-hole attachment</li> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>Busbar center-to-center spacing</li> <li>Environmental conditions</li> </ul>	Mounting type				
<ul> <li>front mounting with 4-hole attachment</li> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>Busbar center-to-center spacing</li> <li>Environmental conditions</li> </ul>	<ul><li>floor mounting</li></ul>		No		
<ul> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>Busbar center-to-center spacing</li> <li>Environmental conditions</li> </ul>	• front mounting		No		
● rail mounting  Busbar center-to-center spacing  mm 60  Environmental conditions	<ul> <li>front mounting with 4-hole attachment</li> </ul>		No		
Busbar center-to-center spacing mm 60  Environmental conditions	<ul> <li>front mounting with central attachment</li> </ul>		No		
Environmental conditions	• rail mounting		Yes		
	Busbar center-to-center spacing	mm	60		
Ambient temperature	Environmental conditions				
, united to the state of	Ambient temperature				

<ul><li>during operation / minimum</li></ul>	°C	-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**



CB











Declaration of Conformity	Test Certificates	3	Shipping Ap	oproval	
$\epsilon$	Special Test Certificate	Type Test Certificates/Test Report	<u>jå</u>	GL	Lloyd's Register
EG-Konf.			DNV	GL	LRS

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
<a href="https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11331JC10">https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11331JC10</a>

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

http://support.automation.siemens.com/WW/view/en/3NP11331JC10/all

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

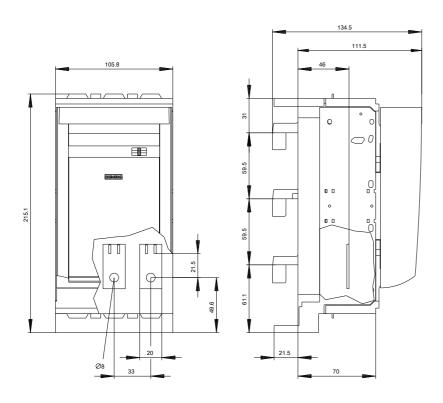
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP11331JC10

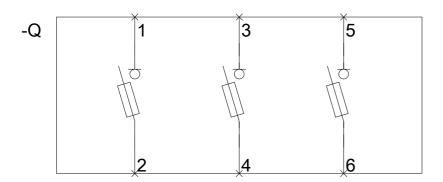
**CAx-Online-Generator** 

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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