SIEMENS

Data sheet 3NP1133-1JC22



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A 60MM BUSBAR SYSTEM COVERS FOR RITTAL BOX TERMINAL 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 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 ² ·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

Insulation voltage / Rated value	Fuse system		LV HRC fuse
Power factor / at AC-21 B Surge voltage resistance / Rated value Protection class Protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • on the front • open Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value	Voltage		
Protection class Protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • on the front • open Dissipation Active power loss • maximum Pated value • at 40 °C / Rated value • at 45 °C / Rated value • at 55 °C / Rated value		V	690
Protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • on the front • open Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value	Power factor / at AC-21 B		0.95
Protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • on the front • open Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 50 °C / Rated value	Surge voltage resistance / Rated value	kV	8
 with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover on the front open IP40 open IP20 Dissipation Active power loss maximum Rated value at 40 °C / Rated value at 45 °C / Rated value at 45 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value at 50 °C / Rated value 			
cover • with closed switch / without cover or cable lug cover • on the front • open Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value	Protection class IP		
cover • on the front • open Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value	-		IP40
on the front open IP40 IP20 Dissipation Active power loss maximum W 12 Electricity Continuous current Rated value A 160 at 40 °C / Rated value A 155 at 45 °C / Rated value A 145 at 50 °C / Rated value A 140 at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible			IP30
Open IP20 Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 55 °C / Rated value Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible			ID40
Dissipation Active power loss • maximum W 12 Electricity Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible			
Active power loss • maximum Maximum Maximum Maximum	• open		IP20
 ● maximum ■ Electricity Continuous current ● Rated value ● at 40 °C / Rated value ● at 45 °C / Rated value ● at 50 °C / Rated value ● at 50 °C / Rated value A 145 ● at 55 °C / Rated value A 140 ● at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible 	Dissipation		
Continuous current • Rated value • at 40 °C / Rated value • at 45 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value A 140 • at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible	Active power loss		
Continuous current Rated value A 160 at 40 °C / Rated value A 155 at 45 °C / Rated value A 145 at 50 °C / Rated value A 140 at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible	• maximum	W	12
 Rated value at 40 °C / Rated value at 45 °C / Rated value at 50 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value A 140 at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible 	Electricity		
 at 40 °C / Rated value at 45 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible 	Continuous current		
 at 45 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value A 140 at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible 	Rated value	Α	160
at 50 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible	• at 40 °C / Rated value	Α	155
at 55 °C / Rated value A 133 Let-through current / with high-speed activation / maximum permissible Let-through current / Ic / maximum permissible	• at 45 °C / Rated value	Α	145
Let-through current / with high-speed activation / kA 15 maximum permissible Let-through current / lc / maximum permissible	• at 50 °C / Rated value	Α	140
maximum permissible Let-through current / Ic / maximum permissible	• at 55 °C / Rated value	Α	133
		kA	15
• 400 V A 23 000	Let-through current / Ic / maximum permissible		
	• 400 V	Α	23 000
• 500V A 23 000	• 500V	Α	23 000
cut-off value I**2t,max. / 400 V A ² ·s 158 000	cut-off value I**2t,max. / 400 V	A²·s	158 000
Main circuit	Main circuit		
Operating voltage	Operating voltage		
• with AC / Rated value / minimum V 230	with AC / Rated value / minimum	V	230
• with AC / Rated value / maximum V 690	with AC / Rated value / maximum	V	690
Operating current	Operating current		
• at AC-21 B / at 400 V / Rated value A 160	• at AC-21 B / at 400 V / Rated value	Α	160
• at AC-21 B / at 500 V / Rated value A 160	• at AC-21 B / at 500 V / Rated value	Α	160
• at AC-21 B / at 690 V / Rated value A 160	• at AC-21 B / at 690 V / Rated value	Α	160
• at AC-22 B / at 400 V / Rated value A 160	• at AC-22 B / at 400 V / Rated value	Α	160
• at AC-22 B / at 500 V / Rated value A 160	• at AC-22 B / at 500 V / Rated value	Α	160
• at AC-22 B / at 690 V / Rated value A 125	• at AC-22 B / at 690 V / Rated value	Α	125

• at AC-23 B / at 400 V / Rated value	Α	160
• at AC-23 B / at 500 V / Rated value	Α	63
• at AC-23 B / at 690 V / Rated value	Α	35
 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
 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	6
single or multi-stranded / maximum	mm²	70
finely stranded / with core end processing /	mm²	6
minimum		
finely stranded / with core end processing /	mm²	50
maximum		
• 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	215.1
Width	mm	105.8
Depth	mm	174.4
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 attachment 		No
• rail mounting		Yes
Busbar center-to-center spacing	mm	60

Environmental conditions		
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 61346-2		Q	
● acc. to DIN EN 81346-2		Q	

General Product Approval



CB











Declaration of Conformity	Test Certificates	Shipping Ap	pproval		
	Type Test	4 8		T. 1	



Type Test
Certificates/Test
Report





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Further information

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/3NP11331JC22

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

http://support.automation.siemens.com/WW/view/en/3NP11331JC22/all

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

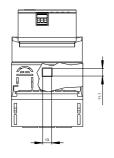
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11331JC22

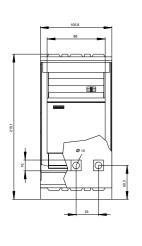
CAx-Online-Generator

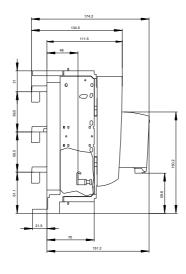
http://www.siemens.com/cax

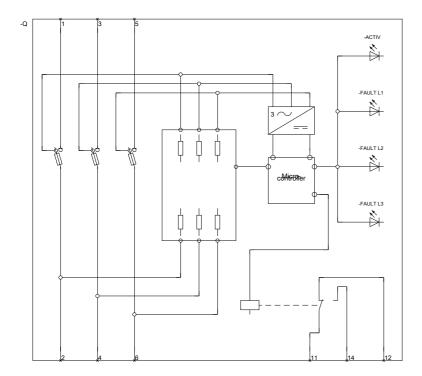
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









last modified: 11.03.2015