SIEMENS

Data sheet 3NP1123-1JC22



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH000, 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		000
Size of fuse link		NH000
Continuous current / at 35 °C / Rated value	Α	160
Let-through current / with closed switch / maximum permissible	kA	15
cut-off value I**2t,max. / 500 V	A²·s	56 000
I2t value / with closed switch / maximum permissible	kA2.s	56
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 		IP30
cover		
• on the front		IP40
• open		IP20
Dissipation		
Active power loss		
• maximum	W	9
Electricity		
Continuous current		
Rated value	Α	100
● at 40 °C / Rated value	Α	150
• at 45 °C / Rated value	Α	140
• at 50 °C / Rated value	Α	130
• at 55 °C / Rated value	Α	120
Let-through current / with high-speed activation /	kA	10
maximum permissible		
Let-through current / Ic / maximum permissible	Δ.	45,000
• 400 V	A	15 000
• 500V	A	15 000
cut-off value I**2t,max. / 400 V	A²·s	56 000
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	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	125
• at AC-22 B / at 690 V / Rated value	Α	50

• at AC-23 B / at 400 V / Rated value	Α	160
• at AC-23 B / at 500 V / Rated value	Α	40
• at AC-23 B / at 690 V / Rated value	Α	25
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)		
	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	1.5
single or multi-stranded / maximum	mm²	50
• finely stranded / with core end processing /	mm²	1.5
minimum		
finely stranded / with core end processing /	mm²	35
maximum		
• stranded / minimum	mm²	1.5
• stranded / maximum	mm²	50
Tightening torque / with screw-type terminals		
• minimum	N·m	3.5
• maximum	N·m	4
Type of connectable conductor cross-section / of the		8 x 8 mm
laminated conductors / maximum		
Type of electrical connection / for main current circuit		box terminals

Mechanical Design			
Height	mm	210.4	
Width	mm	88.8	
Depth	mm	166.2	
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 Appro	val	
	Type Test	2 2		



Type Test
Certificates/Test
Report





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LRS

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/3NP11231JC22

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

http://support.automation.siemens.com/WW/view/en/3NP11231JC22/all

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

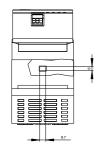
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11231JC22

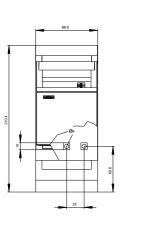
CAx-Online-Generator

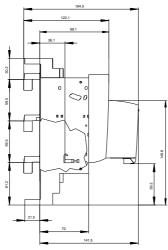
http://www.siemens.com/cax

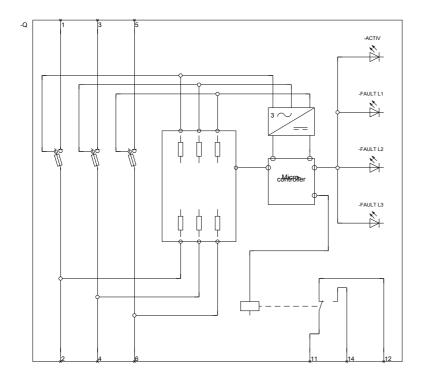
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









last modified: 11.03.2015