SIEMENS

Data sheet 3NP1143-1JC22



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1, 250A 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		1 and 0
Size of fuse link		NH0, NH1
Continuous current / at 35 °C / Rated value	Α	250
Let-through current / with closed switch / maximum permissible	kA	32
cut-off value I**2t,max. / 500 V	A²·s	780 000
I2t value / with closed switch / maximum permissible	kA2.s	780
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		1 600

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		IDOO			
with closed switch / without cover or cable lug		IP30			
cover		IP40			
• on the front					
• open		IP20			
Dissipation					
Active power loss					
• maximum	W	23			
Electricity					
Continuous current					
Rated value	Α	250			
• at 40 °C / Rated value	Α	245			
• at 45 °C / Rated value	Α	240			
• at 50 °C / Rated value	Α	233			
● at 55 °C / Rated value	Α	233			
Let-through current / with high-speed activation /	kA	25			
maximum permissible					
Let-through current / Ic / maximum permissible					
• 400 V	Α	32 000			
• 500V	Α	32 000			
cut-off value I**2t,max. / 400 V	A²·s	780 000			
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	250			
• at AC-21 B / at 500 V / Rated value	Α	250			
• at AC-21 B / at 690 V / Rated value	Α	250			
• at AC-22 B / at 400 V / Rated value	Α	250			
• at AC-22 B / at 500 V / Rated value	Α	250			
• at AC-22 B / at 690 V / Rated value	Α	250			

• at AC-23 B / at 400 V / Rated value	Α	250
• at AC-23 B / at 500 V / Rated value	Α	200
• at AC-23 B / at 690 V / Rated value	Α	100
 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	50
with closed switch / with AC / at 500 V / Rated value	kA	120
• with closed switch / with AC / at 690 V / Rated value	kA	100
Connections		
Arrangement of electrical connectors / for main current circuit		other
Connectable conductor cross-section / for main contacts		
• single or multi-stranded / minimum	mm²	70
• single or multi-stranded / maximum	mm²	185
• stranded / minimum	mm²	70
• stranded / maximum	mm²	185
Tightening torque / with screw-type terminals		
• minimum	N·m	10
• maximum	N·m	10
Type of connectable conductor cross-section / of the		10 x 20 mm
laminated conductors / maximum		
Type of electrical connection / for main current circuit		box terminals
Mechanical Design		
Height	mm	306
Width	mm	183.7
Depth	mm	169.3
mounting position		horizontally or vertically
Mounting type		busbar mounting
Mounting type		
• floor mounting		No

• 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

°C

°C

°C

• during operation / maximum

• during storage / minimum

• during storage / maximum

55

-50

80

Certificates **Equipment marking** Q • acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2

General Product Approval

Declaration of Conformity













Test	Shipping Ap	proval		
Certificates				
Type Test Certificates/Test Report	<u> </u>	[GL⊚]	Lloyd's Register	
	DNV	GL	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/3NP11431JC22

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11431JC22/all

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

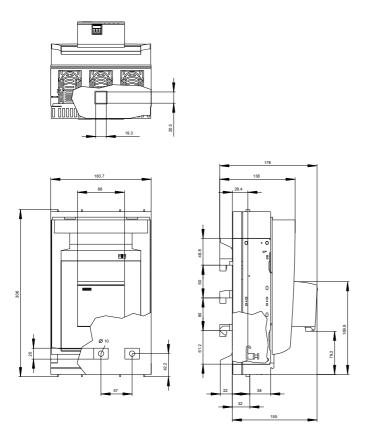
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11431JC22

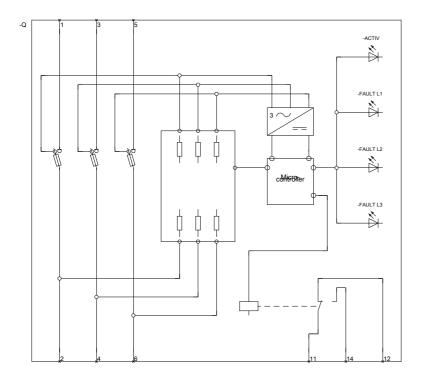
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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