SIEMENS

Data sheet

3NP1143-1BC20



SENTRON, fuse switch disconnector 3NP1, 3-pole, NH1, 250 A, for 60mm 8US busbar system, Rahmenklemme, cover level 32/70 mm

Model			
product brand name	SENTRON		
Busbar design	busbar thickness 5 or 10 mm		
Design of the load switch / Strip form	No		
Type of the driving mechanism / motor drive	No		
General technical data			
Number of poles	3		

	-
	1 and 0
	NH0, NH1
А	250
kA	32
A²∙s	780 000
	0.65
	0.45
	-0.25
	3NP11
	1 600
	kA

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		IP30
cover		1040
• on the front		IP40
• open		IP20
Dissipation	_	
Power loss [W]		
 for rated value of the current / at AC / in hot 	W	7.66
operating state / per pole		
• maximum	W	23
Electricity		
Continuous current		
● rated value	А	250
• at 40 °C / rated value	А	245
• at 45 °C / rated value	А	240
• at 50 °C / rated value	А	233
• at 55 °C / rated value	А	233
Let-through current / with high-speed activation / maximum permissible	kA	25
Let-through current / Ic / maximum permissible	-	
• 400 V	А	32 000
• 500V	А	32 000
cut-off value I**2t,max. / 400 V	A²·s	780 000
Main circuit		
Operating voltage		
• at AC / rated value / maximum	V	690
• at DC / rated value	V	440
• at DC / rated value / maximum	V	440
Operating current / with capacitive load		
• at 400 V / maximum	А	72
• at 500 V / maximum	A	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		No
 Phase failure monitoring 		No
 undervoltage release 		No
 undervoltage release with leading contact 		No
Product feature / sealable		Yes
Product extension		
Auxiliary switch		Yes
• optional		
— locking capability		Yes
— motor drive		No
— Phase failure monitoring		Yes
— fuse monitoring		Yes
— Voltage trigger		No
- Overvoltage protection monitoring		Yes
Product function	_	
Product function		
fuse monitoring		No
 Overvoltage protection monitoring 		No
Short circuit		
Conditional short-circuit current (Iq)		
• rated value	kA	80
 at AC / at 500 V / with high-speed activation / rated value 	kA	80
 at AC / at 690 V / with high-speed activation / rated value 	kA	50
 with closed switch / at AC / at 500 V / rated value 	kA	120

 \bullet with closed switch / at AC / at 690 V / rated value

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

kΑ

100

Mechanical Design

Height	mm	306
Width	mm	183.7
Depth	mm	141
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
Net weight	kg	2.85

Environmental conditions				
Degree of pollution		3		
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 Produ	uct Approval	Declaration of Conformity	Test Certificates		Shipping Approval		
		EG-Konf.	spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinigu ng/Werkszeugnis	DNV DNV		
Shipping Approval							
GL	Llovd's Kegister						

-urther information

GL

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

LRS

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP1143-1BC20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP1143-1BC20/all

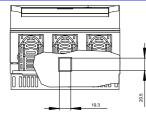
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1143-1BC20

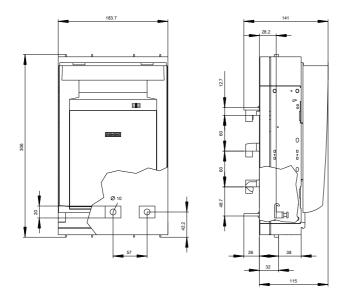
CAx-Online-Generator

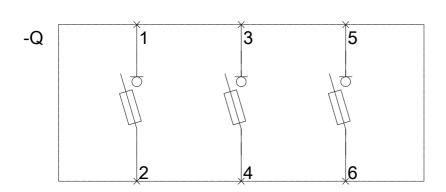
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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