SIEMENS

Data sheet

3NP1133-1BB23



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A 40MM BUSBAR SYSTEM COVER LEVEL 32/70 MM BOX TERMINAL FUSE MONITORING ELECTRONIC, EFM 20

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 20
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 Siemens 8US 40
		mm
Size of disconnecting link		00 and 000
Size of fuse link		NH000, NH00
Continuous current / at 35 °C / Rated value	А	160
Let-through current / with closed switch / maximum	kA	23
permissible		
cut-off value I**2t,max. / 500 V	A²∙s	158 000
l2t 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

Fuse system Voltage Insulation voltage / Rated value V Power factor / at AC-21 B V Surge voltage resistance / Rated value KV Protection class KV 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 • open	LV HRC fuse 690 0.95 8 IP40 IP30 IP40
Insulation voltage / Rated value V Power factor / at AC-21 B KV Surge voltage resistance / Rated value kV 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 • on the front	0.95 8 IP40 IP30
Insulation voltage / Rated value V Power factor / at AC-21 B KV Surge voltage resistance / Rated value kV 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 • on the front	0.95 8 IP40 IP30
Power factor / at AC-21 B Surge voltage resistance / Rated value KV 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 	0.95 8 IP40 IP30
Surge voltage resistance / Rated value kV Protection class Protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • on the front	8 IP40 IP30
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	IP40 IP30
 Protection class IP with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover on the front 	IP30
 with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover on the front 	IP30
cover • with closed switch / without cover or cable lug cover • on the front	IP30
cover • on the front	
	IP40
• open	
	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 / kA maximum permissible	15
Let-through current / Ic / maximum permissible	
• 400 V A	23 000
• 500V A	23 000
cut-off value I**2t,max. / 400 V A ² ·s	158 000
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 A	160
• at AC-21 B / at 500 V / Rated value A	160
• at AC-21 B / at 690 V / Rated value A	160
• at AC-22 B / at 400 V / Rated value A	160
• at AC-22 B / at 500 V / Rated value A	160
• at AC-22 B / at 690 V / Rated value A	125

• at AC-23 B / at 400 V / Rated value	А	160
• at AC-23 B / at 500 V / Rated value	А	63
• at AC-23 B / at 690 V / Rated value	А	35
 with capacitive load / at 400 V / maximum 	А	72
 with capacitive load / at 500 V / maximum 	А	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 		Yes
• 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
— Voltage trigger		No
Product function		
Product function		
 fuse monitoring 		Yes
 Overvoltage protection monitoring 		Yes
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 current circuit		other
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 / minimum 	mm²	6
 finely stranded / with core end processing / maximum 	mm²	50
• 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 laminated conductors / maximum		9 x 8 mm
Type of electrical connection / for main current circuit		box terminals

Mechanical Design		
Height	mm	210.4
Width	mm	105.8
Depth	mm	177.2
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	40

Environmental conditions		
Ambient temperature		
 during operation / minimum 	°C	-25
 during operation / maximum 	°C	55

during storage during storage Certificates Equipment marking			°C °C	-50 80		
• acc. to DIN EN	l 61346-2			Q		
acc. to DIN EN				Q		
General Product	t Approval					
СВ	(m)			°		гпг
СВ		GOST	7	UR		tHL
•-	CCC	GOST		UR		LUI
СВ				UR	U	LUI

urther information

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

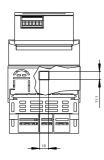
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11331BB23

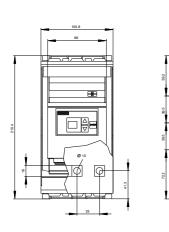
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11331BB23/all

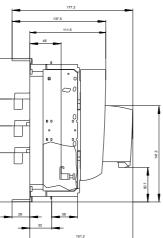
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11331BB23

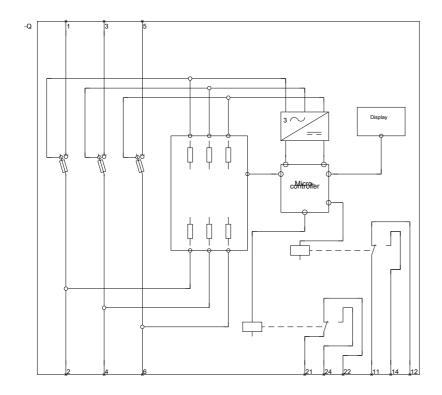
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv









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