SIEMENS

Data sheet

3NP1133-1BB12

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for Busbar system 8US 40 mm, flat terminal, Fuse monitoring: electronic EFM10, Cover level 32/70 mm



Model			
Product brand name	SENTRON		
Product designation	3NP1 fuse switch disconnector		
Design of the product	cover level 32/70 mm		
Busbar design	busbar thickness 5 or 10 mm		
Design of the safety monitoring	electronic EFM 10		
Design of the operating mechanism	Cover handle		
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	For 40 mm 8US busbar system		
Size of disconnecting link	00 and 000		
Size of fuse link	NH000, NH00		
Continuous current / at 35 °C / rated value	160 A		
Let-through current / with closed switch / maximum	23 kA		
permissible			
cut-off value I**2t,max. / 500 V	158 000 A ^{2.} s		
Power factor			

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a -1 40 00 D	0.65
• at AC-22 B	
• 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	690 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV
Protection class	
Protection class IP	
 with closed switch / with cover or cable lug cover 	IP40
 with closed switch / without cover or cable lug cover 	IP30
• on the front	IP40
• open	IP20
Electricity Continuous current	
	160 A
• rated value	155 A
• at 40 °C / rated value	155 A 145 A
• at 45 °C / rated value	
• at 50 °C / rated value	140 A
• at 55 °C / rated value	133 A
Let-through current / with high-speed activation / maximum permissible	15 kA
Let-through current / Ic / maximum permissible	
• 400 V	23 000 A
• 500V	23 000 A
cut-off value I**2t,max. / 400 V	158 000 A²·s
Main circuit	
Operating voltage	
• at AC / rated value / minimum	230 V
• at AC / rated value / maximum	690 V
Operating current / with capacitive load	
• at 400 V / maximum	72 A
• at 500 V / maximum	55 A
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 feature / sealable	Yes
Product extension	
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	80 kA
 at AC / at 500 V / with high-speed activation / rated value 	80 kA
 at AC / at 690 V / with high-speed activation / rated value 	80 kA
 with closed switch / at AC / at 500 V / rated value 	120 kA
 with closed switch / at AC / at 690 V / rated value 	120 kA
Connections	

Arrangement of electrical connectors / for main current circuit	other
Connectable conductor cross-section / for main contacts	
 single or multi-stranded / minimum 	2.5 mm ²
 single or multi-stranded / maximum 	95 mm²
 stranded / minimum 	2.5 mm ²
 stranded / maximum 	95 mm ²
Tightening torque / with screw-type terminals	
• minimum	10 N·m
• maximum	12 N·m
Type of electrical connection / for main current circuit	busbar connection

Mechanical Design		
Height	210.4 mm	
Width	105.8 mm	
Depth	177.4 mm	
Mounting position	horizontal/vertical	
Mounting type	busbar	
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	40 mm	
Net weight	1.12 kg	

Environmental conditions			
Degree of pollution	2		
Ambient temperature			
 during operation / minimum 	-25 °C		
 during operation / maximum 	55 °C		
 during storage / minimum 	-50 °C		
 during storage / maximum 	80 °C		
Certificates			
Reference code			
• acc. to DIN EN 61346-2	Q		
• acc. to DIN EN 81346-2	Q		

General Proc	duct Approval			Declaration of Conformity	Test Certific- ates
	UR	UDE VDE	Miscellaneous	EG-Konf.	Type Test Certific- ates/Test Report

Shipping Approval



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Further information

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NP1133-1BB12

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1BB12

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1BB12

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

Tender specifications http://www.siemens.com/specifications





