SIEMENS

Data sheet 3NP1143-1BC12

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH1, 250 A, for Busbar system 8US 60 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 60 mm 8US busbar system
Size of disconnecting link	1 and 0
Size of fuse link	NH0, NH1
Continuous current / at 35 °C / rated value	250 A
Let-through current / with closed switch / maximum permissible	32 kA
cut-off value I**2t,max. / 500 V	780 000 A²·s
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	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	IP40
cover	
with closed switch / without cover or cable lug	IP30
cover	
• on the front	IP40
• open	IP20
Electricity	
Continuous current	
• rated value	250 A
• at 40 °C / rated value	245 A
• at 45 °C / rated value	240 A
• at 50 °C / rated value	233 A
• at 55 °C / rated value	233 A
Let-through current / with high-speed activation /	25 kA
maximum permissible	
Let-through current / Ic / maximum permissible	
• 400 V	32 000 A
• 500V	32 000 A
cut-off value I**2t,max. / 400 V	780 000 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 	50 kA
 with closed switch / at AC / at 500 V / rated value 	120 kA
• with closed switch / at AC / at 690 V / rated value	100 kA
Connections	

Arrangement of electrical connectors / for main current circuit	other	
Connectable conductor cross-section / for main contacts		
• single or multi-stranded / minimum	16 mm²	
• single or multi-stranded / maximum	150 mm²	
• stranded / minimum	16 mm²	
• stranded / maximum	150 mm²	
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	306 mm	
Width	183.7 mm	
Depth	172.3 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	60 mm	
Net weight	2.99 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 Product Approval

Declaration of Conformity

Test Certificates







Miscellaneous



Type Test Certificates/Test Report

Shipping Approval



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=3NP1143-1BC12

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1143-1BC12

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1143-1BC12

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





