SIEMENS

Data sheet

3NP1123-1CA20

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH000, 160 A, for assembly and installation on Mounting plate, box terminal, Cover level 45 mm



Model	
Product brand name	SENTRON
Product designation	3NP1 fuse switch disconnector
Design of the product	cover level 45 mm
Design of the safety monitoring	Without
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 assembly and installation on mounting plate
Size of disconnecting link	000
Size of fuse link	NH000
Continuous current / at 35 °C / rated value	160 A
Let-through current / with closed switch / maximum permissible	15 kA
cut-off value I**2t,max. / 500 V	223 000 A ² ·s
	223 000 A 'S
Power factor	
• at AC-22 B	0.65

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● 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
Degree of pollution	3
Voltage	
Insulation voltage	
• rated value	690 V
 with degree of pollution 3 / rated value 	690 V
 with degree of pollution 2 / rated value 	1 000 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV
Current / at AC / rated value	160 A
Operating voltage	
 at AC / rated value / maximum 	690 V
• at DC / rated value	440 V
 at DC / rated value / maximum 	440 V
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
Dissipation	
Power loss [W]	
 with conventional rated thermal current / without fuse / per pole 	5 W
 with conventional rated thermal current / without fuse / per device 	15 W
 for rated value of the current / at AC / in hot operating state / per pole 	14 W
 of the fuse / per fuse / maximum 	9 W
Current	
Operating current	
• at AC-23 B / at 690 V / rated value	25 A
• at AC-23 B / at 500 V / rated value	40 A
• at AC-23 B / at 400 V / rated value	160 A
• at AC-23 B / at 240 V / rated value	160 A

• at AC-22 B / at 690 V / rated value	50 A	
• at AC-22 B / at 500 V / rated value	125 A	
• at AC-22 B / at 400 V / rated value	160 A	
• at AC-22 B / at 240 V / rated value	160 A	
• at AC-21 B / at 690 V / rated value	160 A	
• at AC-21 B / at 500 V / rated value	160 A	
• at AC-21 B / at 400 V / rated value	160 A	
• at AC-21 B / at 240 V / rated value	160 A	
• at DC-23 B / at 440 V / rated value / maximum	25 A	
• at DC-23 B / at 240 V / rated value / maximum	80 A	
• at DC-23 B / at 120 V / rated value / maximum	80 A	
• at DC-22 B / at 440 V / rated value / maximum	50 A	
• at DC-22 B / at 240 V / rated value / maximum	100 A	
• at DC-22 B / at 120 V / rated value / maximum	100 A	
• at DC-21 B / at 440 V / rated value / maximum	100 A	
• at DC-21 B / at 240 V / rated value / maximum	160 A	
• at DC-21 B / at 120 V / rated value / maximum	160 A	
Continuous current		
• rated value	100 A	
• at 40 °C / rated value	150 A	
● at 45 °C / rated value	140 A	
• at 50 °C / rated value	130 A	
• at 55 °C / rated value	120 A	
Let-through current / with high-speed activation / maximum permissible	10 kA	
Let-through current / Ic / maximum permissible		
• 400 V	15 000 A	
• 500V	15 000 A	
cut-off value I**2t,max. / 400 V	166 000 A ^{2.} s	
Main circuit		
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	

Arrangement of electrical connectors / for main current circuit	other
Connectable conductor cross-section / for main contacts	
 single or multi-stranded 	1.5 50 mm²
 finely stranded / with core end processing 	1.5 35 mm²
• stranded	1.5 50 mm²
Tightening torque / with screw-type terminals	3.5 4 N·m
Type of connectable conductor cross-sections / of the laminated conductors / maximum	8 x 8 mm
Type of connection	Box terminal
Type of electrical connection / for main current circuit	box terminal
Mechanical Design	
Height	141.7 mm
Width	88.8 mm
Depth	74.1 mm
Mounting type	mounting plate
Mounting type	
 floor mounting 	Yes
• front mounting	No
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	No
Mounting position	horizontal/vertical
Net weight	0.47 kg
during operation	-25 +55 °C
• during storage	-50 +80 °C
Certificates	
Reference code	
• acc. to DIN EN 61346-2	Q

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

Test Certific-	Shipping Approval
ates	
Special Test Certi- ficate	LRS

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=3NP1123-1CA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1CA20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1123-1CA20

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

Tender specifications

http://www.siemens.com/specifications











