SIEMENS

Data sheet 3NP1121-1CA20



SENTRON, fuse switch disconnector 3NP1, 1-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 actuating element	Cover handle			
design of the load switch / strip form	No			
type of the driving mechanism / motor drive	No			
General technical data				
number of poles	1			
type of device	For assembly and installation on mounting plate			
size of disconnecting link	000			
size of fuse link	NH000			
let-through current / with closed switch / maximum permissible	15 kA			
mechanical service life (switching cycles) / typical	2 000			
power factor				
● at AC-22 B	0.65			
● at AC-23 B	0.35			
with capacitive load	-0.25			
fuse system	LV HRC fuse			
degree of pollution	3			
Voltage				
insulation voltage				
rated value	690 V			
 with degree of pollution 3 / at AC / rated value 	690 V			
with degree of pollution 2 / at AC / rated value	1 000 V			
power factor / at AC-21 B	0.95			
surge voltage resistance / rated value	8 kV			
operating voltage				
at AC / rated value / maximum	240 V			
at DC / rated value	120 V			
at DC / rated value / maximum	120 V			
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
Dissipation	
power loss [W]	
with conventional rated thermal current / without fuse / per pole	5 W
 with conventional rated thermal current / without fuse / per device 	5 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	
operational current	
• at 35 °C / rated value	160 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
at AC / rated value	160 A
at AC-23 B / at 240 V / rated value	160 A
at AC-22 B / at 240 V / rated value	160 A
• at AC-21 B / at 240 V / rated value	160 A
 at DC-23 B / at 120 V / rated value 	80 A
 at DC-22 B / at 120 V / rated value 	100 A
at DC-21 B / at 120 V / rated value	160 A
let-through current / with high-speed activation / maximum permissible	10 kA
Main circuit	
operational current	
• rated value	100 A
with capacitive load / at 400 V / rated value	72 A
with capacitive load / at 400 V / rated value with capacitive load / at 500 V / rated value	55 A
	33 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	No
product function / phase failure monitoring	No
product component / undervoltage release	No
product component / undervoltage release with leading contact	No
product feature / sealable	Yes
product extension / auxiliary switch	Yes
product extension / optional	
locking capability	Yes
motor drive	No
phase failure monitoring	Yes
fuse monitoring	Yes
voltage trigger	No
overvoltage protection monitoring	Yes
- 10. 10. 10. 10. 10. 11. 11. 11. 11. 11.	

	Comorning				
	Declaration of Conformity	f	Test Certificates	Marine / Shipping	other
• maximum		80 °C			
• minimum		-50 °C			
ambient temperature / during storage					
• maximum		55 °C			
minimum		-25 °C			
ambient temperature / during operation					
Environmental conditions					
net weight		0.21 kg			
mounting position		horizontal/vertical			
rail mounting		No			
front mounting with central attachment		No			
4-hole front mounting		No			
• floor mounting		No			
fastening method		mount	ing plate		
fastening method		mounting plate			
depth		38.8 mm 74.1 mm			
width		141.7			
Mechanical Design		144 7	mm		
type of electrical connection / for main current circuit		box terminal			
type of connection technology		Box terminal			
laminated conductors / maximum		Boy to	rminal		
type of connectable conductor cross-sections / of the		8 x 8 mm			
• maximum		4 N·m			
• minimum		3.5 N·	m		
tightening torque / with screw-type terminals					
stranded / maximum		50 mm	l ²		
stranded / minimum		1.5 mr	n²		
 finely stranded / with core end processing maximum 	/	35 mm	l ²		
 finely stranded / with core end processing minimum 	/	1.5 mr	n²		
solid or stranded / maximum		50 mm ²			
solid or stranded / minimum		1.5 mm ²			
connectable conductor cross-section / for main of	contacts				
arrangement of electrical connectors / for main circuit	current	other			
Connections					
• with closed switch / at AC / at 240 V / rate	d value	120 kA			
 at AC / at 240 V / with high-speed activation value 	on / rated	80 kA			
rated value		80 kA			
conditional short-circuit current (Iq)					
Short circuit					
 overvoltage protection monitoring 		No			
		INO			
• fuse monitoring		No			



<u>ate</u>



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=3NP1121-1CA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1121-1CA20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1121-1CA20

CAx-Online-Generator

http://www.siemens.com/cax

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











