SIEMENS

Data sheet

3NP1134-1CA20



SENTRON, fuse switch disconnector 3NP1, 4-pole, NH00, 160 A, for assembly and installation on mounting plate, box terminal, cover level 45 $\rm mm$

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	4			
type of device	For assembly and installation on mounting plate			
size of disconnecting link	00 and 000			
size of fuse link	NH000, NH00			
let-through current / with closed switch / maximum permissible	23 kA			
mechanical service life (switching cycles) / typical	2 000			
power factor				
• at AC-22 B	0.65			
• at AC-23 B	0.45			
 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 	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 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 	20 W
 for rated value of the current / at AC / in hot operating state / per pole 	17 W
• of the fuse / per fuse / maximum	12 W
Current	
operational current	
• at 35 °C / rated value	160 A
• at 40 °C / rated value	155 A
 at 45 °C / rated value 	145 A
• at 50 °C / rated value	140 A
• at 55 °C / rated value	133 A
 at AC / rated value 	160 A
 at AC-23 B / at 690 V / rated value 	35 A
• at AC-23 B / at 500 V / rated value	63 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 	125 A
 at AC-22 B / at 500 V / rated value 	160 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	63 A
• at DC-23 B / at 240 V / rated value	100 A
• at DC-23 B / at 120 V / rated value	100 A
• at DC-22 B / at 440 V / rated value	125 A
• at DC-22 B / at 240 V / rated value	160 A
• at DC-22 B / at 120 V / rated value	160 A
• at DC-21 B / at 440 V / rated value	160 A
• at DC-21 B / at 240 V / rated value	160 A
• at DC-21 B / at 120 V / rated value	160 A
let-through current / with high-speed activation / maximum permissible	15 kA
Main circuit	
operational current	
rated value	160 A
with capacitive load / at 400 V / rated value	72 A
 with capacitive load / at 500 V / rated value 	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	No
 product function / phase failure monitoring 	No
 product component / undervoltage release 	No
 product component / undervoltage release with 	No
leading contact	
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
Product function	
product function	
 fuse monitoring 	No
 overvoltage protection monitoring 	No
Short circuit	
conditional short-circuit current (Iq)	
 rated value 	80 kA
 at AC / at 240 V / with high-speed activation / 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 240 V / rated value 	120 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	
 solid or stranded / minimum 	6 mm ²
 solid or stranded / maximum 	70 mm²
 finely stranded / with core end processing / minimum 	6 mm ²
 finely stranded / with core end processing / maximum 	50 mm²
 stranded / minimum 	6 mm ²
stranded / maximum	70 mm²
tightening torque / with screw-type terminals	(0.1)
• minimum	10 N·m
• maximum	10 N·m
type of connectable conductor cross-sections / of the laminated conductors / maximum	9 x 12 mm
type of connection technology	Box terminal
type of electrical connection / for main current circuit	box terminal
Mechanical Design	
height	202 mm
width	147.7 mm
depth	86.5 mm
fastening method	
	mounting plate
fastening method	
fastening method • floor mounting	No
fastening method	

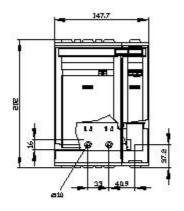
• rail mounting		No				
mounting position		horiz	ontal/vertical			
net weight		1.08 kg				
Environmental conditions						
ambient temperature / during operation						
• minimum		-25 °C				
• maximum	55 °C					
ambient temperature / during storage						
• minimum		-50 °C				
• maximum		80 °C	80 °C			
General Product Approval	Declaration o Conformity	of	Test Certificates		Marine / Shipping	
Miscellaneous EFFE	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	DNV-GL ENVILLEMENT	

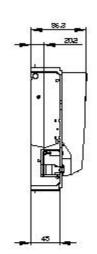
other

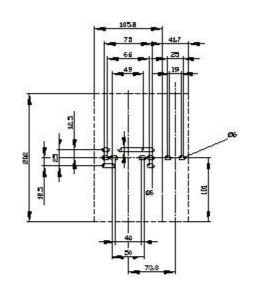
Miscellaneous

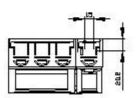
Further information

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=3NP1134-1CA20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1134-1CA20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1134-1CA20 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









C