SIEMENS

Data sheet 3NP1154-1DA20



SENTRON, fuse switch disconnector 3NP1, 4-pole, NH2, 400 A, for assembly and installation on mounting plate, Box terminal, cover level $70 \mathrm{mm}$

Model					
product brand name	SENTRON				
product designation	3NP1 fuse switch disconnector				
design of the product	cover level 70 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	2 and 1				
size of fuse link	NH1, NH2				
let-through current / with closed switch / maximum permissible	40 kA				
mechanical service life (switching cycles) / typical	1 000				
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	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	14 W
 with conventional rated thermal current / without fuse / per device 	56 W
 for rated value of the current / at AC / in hot operating state / per pole 	48 W
of the fuse / per fuse / maximum	34 W
Current	
operational current	
• at 35 °C / rated value	400 A
at 40 °C / rated value	400 A
• at 45 °C / rated value	392 A
at 50 °C / rated value	372 A
at 55 °C / rated value	356 A
at AC / rated value	400 A
at AC-23 B / at 690 V / rated value	125 A
• at AC-23 B / at 500 V / rated value	315 A
at AC-23 B / at 400 V / rated value	400 A
• at AC-23 B / at 240 V / rated value	400 A
at AC-22 B / at 690 V / rated value	400 A
• at AC-22 B / at 500 V / rated value	400 A
at AC-22 B / at 400 V / rated value	400 A
• at AC-22 B / at 400 V / rated value	400 A
• at AC-22 B / at 240 V / rated value	400 A
• at AC-21 B / at 500 V / rated value	400 A
• at AC-21 B / at 400 V / rated value	400 A
	400 A
at AC-21 B / at 240 V / rated value at DC 23 B / at 440 V / rated value at DC 33 B / at 440 V / rated value	
• at DC-23 B / at 440 V / rated value	160 A
 at DC-23 B / at 240 V / rated value 	250 A
 at DC-23 B / at 120 V / rated value 	250 A
 at DC-22 B / at 440 V / rated value 	315 A
 at DC-22 B / at 240 V / rated value 	400 A
 at DC-22 B / at 120 V / rated value 	400 A
• at DC-21 B / at 440 V / rated value	400 A
at DC-21 B / at 240 V / rated value	400 A
at DC-21 B / at 120 V / rated value	400 A
let-through current / with high-speed activation / maximum permissible	40 kA
Main circuit	
operational current	
• rated value	400 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
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	W.
• 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			
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 	100 kA			
 with closed switch / at AC / at 500 V / rated value 	100 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 	120 mm²			
 solid or stranded / maximum 	300 mm ²			
 finely stranded / with core end processing / minimum 	120 mm²			
 finely stranded / with core end processing / maximum 	240 mm ²			
• stranded / minimum	120 mm²			
stranded / maximum	300 mm²			
tightening torque / with screw-type terminals				
• minimum	25 N·m			
maximum	25 N·m			
type of connectable conductor cross-sections / of the laminated conductors / maximum	32 x 10 mm			
type of connection technology	Box terminal			
type of electrical connection / for main current circuit	box terminal			
Mechanical Design				
height	306 mm			
width	289 mm			
width depth	289 mm 130 mm			
depth	130 mm			
depth fastening method	130 mm			
depth fastening method fastening method	130 mm mounting plate			

rail mounting		No			
mounting position		horizontal/vertical			
Environmental conditions					
ambient temperature / during operation					
• minimum		-25 °	С		
maximum		55 °C			
ambient temperature / during storage					
• minimum		-50 °	C		
• maximum		80 °C			
General Product Approval	Declaration o Conformity	f	Test Certificates		Marine / Shipping
				'	

Miscellaneous





Type Test Certificates/Test Report

Special Test Certificate



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=3NP1154-1DA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1154-1DA20

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

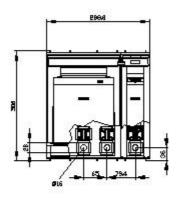
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1154-1DA20

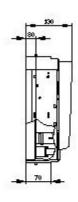
CAx-Online-Generator

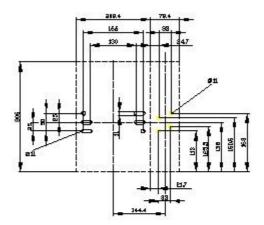
http://www.siemens.com/cax

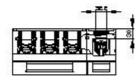
Tender specifications

http://www.siemens.com/specifications









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