SIEMENS

Data sheet

3NP1151-1DA20



SENTRON, fuse switch disconnector 3NP1, 1-pole, NH2, 400 A, for assembly and installation on mounting plate, Box terminal, cover level 70mm

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	1			
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 	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			

	IP20
• open	IF 20
Dissipation	
power loss [W]	4.4.187
 with conventional rated thermal current / without fuse / per pole 	14 W
 with conventional rated thermal current / without fuse / per device 	14 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 240 V / rated value	400 A
• at AC-22 B / at 240 V / rated value	400 A
• at AC-21 B / at 240 V / rated value	400 A
• at DC-23 B / at 120 V / rated value	250 A
• at DC-22 B / at 120 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
	72 A
with capacitive load / at 400 V / rated value	55 A
with capacitive load / at 500 V / rated value	55 A
Auxiliary circuit	<u>^</u>
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 	No
fuse monitoring	Yes
voltage trigger	No
 overvoltage protection monitoring 	No

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 act 	ivation / rated	80 kA	80 kA			
value						
 with closed switch / at AC / at 240 V / 	rated value	100 k	A			
Connections						
arrangement of electrical connectors / for main current circuit		other				
connectable conductor cross-section / for m	ain contacts					
 solid or stranded / minimum 		120 n	nm²			
 solid or stranded / maximum 		300 n	nm²			
 finely stranded / with core end proces minimum 	sing /	120 n	120 mm²			
 finely stranded / with core end processing / maximum 		240 mm ²				
• stranded / minimum		120 mm ²				
 stranded / maximum 	 stranded / maximum 		300 mm ²			
tightening torque / with screw-type terminals	3					
• 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	type of connection technology		Box terminal			
type of electrical connection / for main current circuit		box terminal				
Mechanical Design						
height		306 mm				
width		79.4 mm				
depth		130 mm				
fastening method		mounting plate				
fastening method						
floor mounting		Yes				
4-hole front mounting		No				
 front mounting with central attachment 		No				
rail mounting		No				
mounting position		horizontal/vertical				
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 of Conformity	of	Test Certificates		Marine / Shipping	
Miscellaneous ERIC	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	DIVGLOBAN	

other

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=3NP1151-1DA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1151-1DA20

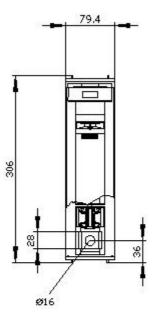
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1151-1DA20

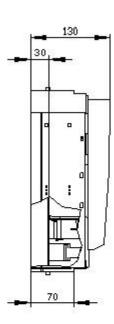
CAx-Online-Generator

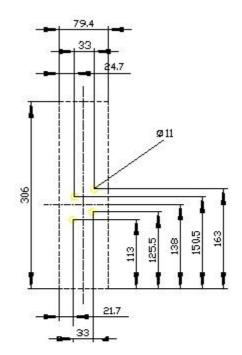
http://www.siemens.com/cax

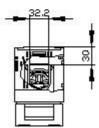
Tender specifications

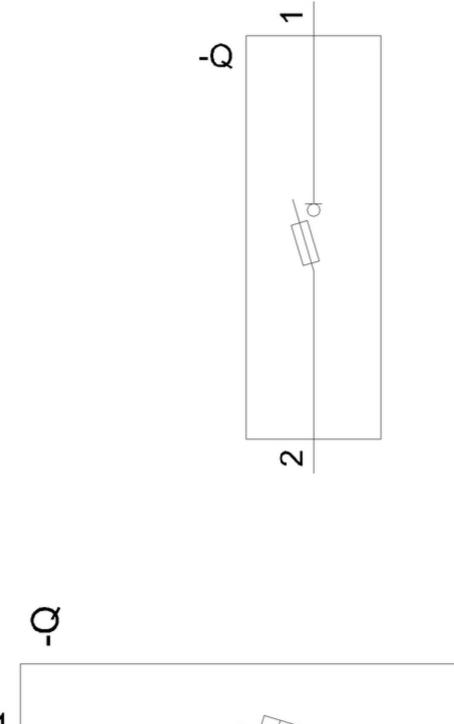
http://www.siemens.com/specifications

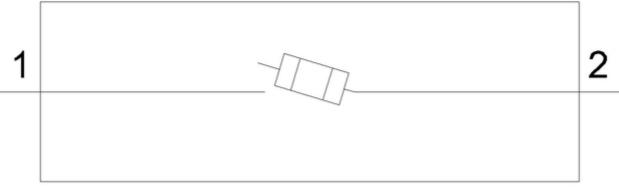












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