SIEMENS

Data sheet 3NP1161-1DA10



SENTRON, fuse switch disconnector 3NP1, 1-pole, NH3, 630 A, for assembly and installation on mounting plate, Flat 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	1		
type of device	For assembly and installation on mounting plate		
size of disconnecting link	3 and 2		
size of fuse link	NH2, NH3		
let-through current / with closed switch / maximum permissible	60 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		
• open	IP20		

Dissipation	
power loss [W]	
with conventional rated thermal current / without fuse / per pole	30 W
with conventional rated thermal current / without fuse / per device	30 W
 for rated value of the current / at AC / in hot operating state / per pole 	78 W
• of the fuse / per fuse / maximum	48 W
Current	
operational current	
at 35 °C / rated value	630 A
• at 40 °C / rated value	610 A
• at 45 °C / rated value	575 A
• at 50 °C / rated value	555 A
• at 55 °C / rated value	530 A
at AC / rated value	630 A
at AC-23 B / at 240 V / rated value	630 A
• at AC-23 B / at 240 V / rated value	630 A
• at AC-22 B / at 240 V / rated value • at AC-21 B / at 240 V / rated value	630 A
 at AC-21 B / at 240 V / rated value at DC-23 B / at 120 V / rated value 	
 at DC-23 B / at 120 V / rated value at DC-22 B / at 120 V / rated value 	400 A
	630 A 630 A
at DC-21 B / at 120 V / rated value lot through oursent / with high speed activation / maximum.	
let-through current / with high-speed activation / maximum permissible	50 kA
Main circuit	
operational current	
• rated value	630 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 component / trip indicator product function / phase failure monitoring	No
	No
product component / undervoltage release product component / undervoltage release with	No No
 product component / undervoltage release with leading contact 	NO THE PROPERTY OF THE PROPERT
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		
Connections				
arrangement of electrical connectors / for mai	in current	other		
connectable conductor cross-section / for ma	in contacts			
solid or stranded / minimum		120 mm²		
solid or stranded / maximum		300 mm²		
stranded / minimum		120 mm²		
stranded / maximum		300 mm²		
tightening torque / with screw-type terminals				
• minimum		10 N·m		
• maximum		12 N·m		
type of connectable conductor cross-sections laminated conductors / maximum	s / of the	40 x 18 mm		
type of connection technology		Flat terminal		
type of electrical connection / for main current	t circuit	busbar connection		
Mechanical Design				
height		306 mm		
width		89.4 mm		
depth		138.5 mm		
fastening method		mounting plate		
fastening method				
floor mounting		Yes		
4-hole front mounting		No		
 front mounting with central attachment 		No		
rail mounting	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		
General Product Approval	Declaration of	of Conformity	Test Certificates	

Miscellaneous



UK Declaration of Conformity



Type Test Certificates/Test Report Special Test Certificate

Marine / Shipping

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=3NP1161-1DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1161-1DA10

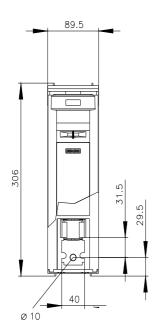
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

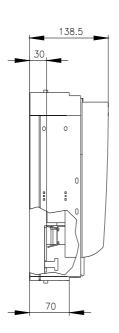
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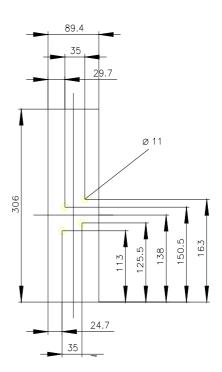
CAx-Online-Generator

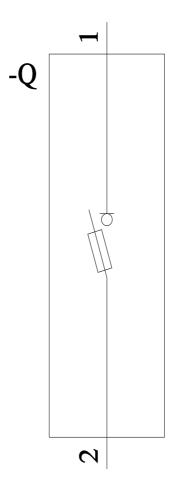
http://www.siemens.com/cax

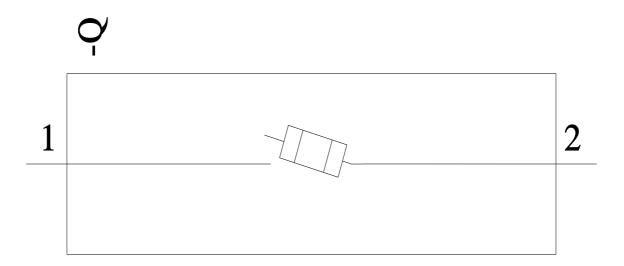
Tender specifications











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