SIEMENS

Data sheet 3NP1153-1DA10

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH2, 400 A, for assembly and installation on mounting plate, flat terminal, cover level 70 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 operating mechanism	Cover handle
Design of the load switch / Strip form	No
Type of the driving mechanism / motor drive	No

General technical data	
Number of poles	3
Type of device	For assembly and installation on mounting plate
Size of disconnecting link	2 and 1
Size of fuse link	NH1, NH2
Continuous current / at 35 °C / rated value	400 A
Let-through current / with closed switch / maximum permissible	40 kA
cut-off value I**2t,max. / 500 V	2 150 000 A ² ·s
Power factor	
● at AC-22 B	0.65

● at AC-23 B	0.35
with capacitive load	-0.25
circuit-breaker / Design	3NP11
Mechanical service life (switching cycles) / typical	1 000
Fuse system	LV HRC fuse
Degree of pollution	3
√oltage	
Insulation voltage	
• rated value	690 V
 with degree of pollution 3 / rated value 	690 V
 with degree of pollution 2 / rated value 	1 000 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV
Current / at AC / rated value	400 A
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 	42 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	
Operating current	
• 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 240 V / rated value	400 A
• at AC-21 B / at 690 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
• at AC-21 B / at 240 V / rated value	400 A
• at DC-23 B / at 440 V / rated value / maximum	160 A
• at DC-23 B / at 240 V / rated value / maximum	250 A
• at DC-23 B / at 120 V / rated value / maximum	250 A
• at DC-22 B / at 440 V / rated value / maximum	315 A
• at DC-22 B / at 240 V / rated value / maximum	400 A
• at DC-22 B / at 120 V / rated value / maximum	400 A
• at DC-21 B / at 440 V / rated value / maximum	400 A
• at DC-21 B / at 240 V / rated value / maximum	400 A
• at DC-21 B / at 120 V / rated value / maximum	400 A
Continuous current	
• 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
Let-through current / with high-speed activation / maximum permissible	40 kA
Let-through current / lc / maximum permissible	
• 400 V	40 000 A
• 500V	40 000 A
cut-off value I**2t,max. / 400 V	1 515 000 A ² ·s
Main circuit	
Operating current / with capacitive load	
• at 400 V / maximum	72 A
• at 500 V / maximum	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	Ma
Main switch	No
 switch disconnector 	Yes

EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

maintenance/repair switch	Yes
Product details	
Product feature / interlock	Yes
Product component	
Trip indicator	No
 Phase failure monitoring 	No
• undervoltage release	No
 undervoltage release with leading contact 	No
Product feature / sealable	Yes
Product extension	
Auxiliary switch	Yes
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 /	80 kA
rated value	
 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 	100 kA

Connections

value

Arrangement of electrical connectors / for main current circuit	other
Connectable conductor cross-section / for main contacts	
• single or multi-stranded	25 240 mm²
• stranded	25 240 mm²
Tightening torque / with screw-type terminals	10 12 N·m
Type of connection	Flat terminal
Type of electrical connection / for main current circuit	busbar connection

Mechanical Design	
Height	306 mm
Width	209.4 mm
Depth	130 mm
Mounting type	mounting plate
Mounting type	
 floor mounting 	Yes
• front mounting	No
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	No
Mounting position	horizontal/vertical
Net weight	4.21 kg
 during operation 	-25 +55 °C
during storage	-50 +80 °C

Certificates

Reference code

• acc. to DIN EN 61346-2

• acc. to DIN EN 81346-2

Q Q

• acc. to DIN EN 81346-2

General Product Approval

Declaration of Conformity

Test Certificates







Miscellaneous



Special Test Certificate

Test	Certific-
ates	

Shipping Approval

Type Test Certificates/Test Report



LRS

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=3NP1153-1DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1153-1DA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1153-1DA10

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









