

SENTRON, fuse switch disconnecter 3NP1, 3-pole, NH2, 400 A, for assembly and installation on mounting plate, Flachanschluss, cover level 70mm



Model		
product brandname		SENTRON
Product designation		3NP1 fuse switch disconnecter
Design of the product		cover level 70 mm
Design of the load switch / Strip form		No
Type of the driving mechanism / motor drive		No

General technical data		
Number of poles		3
Size of disconnecting link		2 and 1
Continuous current / at 35 °C / rated value	A	400
Let-through current / with closed switch / maximum permissible	kA	40
cut-off value $I^{**2}t_{max.}$ / 500 V	A ² ·s	2 150 000
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
Voltage		
Insulation voltage / rated value	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / rated value	kV	8
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]		
• for rated value of the current / at AC / in hot operating state / per pole	W	11.3
• maximum	W	34
Electricity		
Continuous current		
• rated value	A	400
• at 40 °C / rated value	A	400
• at 45 °C / rated value	A	392
• at 50 °C / rated value	A	372
• at 55 °C / rated value	A	356
Let-through current / with high-speed activation / maximum permissible	kA	40
Let-through current / I_c / maximum permissible		
• 400 V	A	40 000
• 500V	A	40 000
cut-off value I²t_{max} / 400 V	A ² ·s	2 150 000
Main circuit		
Operating voltage		
• at AC / rated value / maximum	V	690
• at DC / rated value	V	440
• at DC / rated value / maximum	V	440
Operating current / with capacitive load		
• at 400 V / maximum	A	72
• at 500 V / maximum	A	55
Suitability		

Suitability for use		
• Main switch		No
• switch disconnecter		Yes
• EMERGENCY OFF switch		No
• safety 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 (I_q)		
• rated value	kA	80
• at AC / at 500 V / with high-speed activation / rated value	kA	80
• at AC / at 690 V / with high-speed activation / rated value	kA	50
• with closed switch / at AC / at 500 V / rated value	kA	100
• with closed switch / at AC / at 690 V / rated value	kA	100

Connections

Arrangement of electrical connectors / for main current circuit		other
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Connectable conductor cross-section / for main contacts		
• single or multi-stranded / minimum	mm ²	25
• single or multi-stranded / maximum	mm ²	240
• stranded / minimum	mm ²	25
• stranded / maximum	mm ²	240
Tightening torque / with screw-type terminals		
• minimum	N·m	10
• maximum	N·m	12
Type of electrical connection / for main current circuit		busbar connection

Mechanical Design		
Height	mm	306
Width	mm	209.4
Depth	mm	129.9
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
Net weight	kg	4.21

Environmental conditions		
Degree of pollution		3
Ambient temperature		
• during operation / minimum	°C	-25
• during operation / maximum	°C	55
• during storage / minimum	°C	-50
• during storage / maximum	°C	80

Certificates		
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
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[Typprüfbescheinigung/Werkszeugnis](#)



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP1153-1DA10>

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

<http://support.automation.siemens.com/WW/view/en/3NP1153-1DA10/all>

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

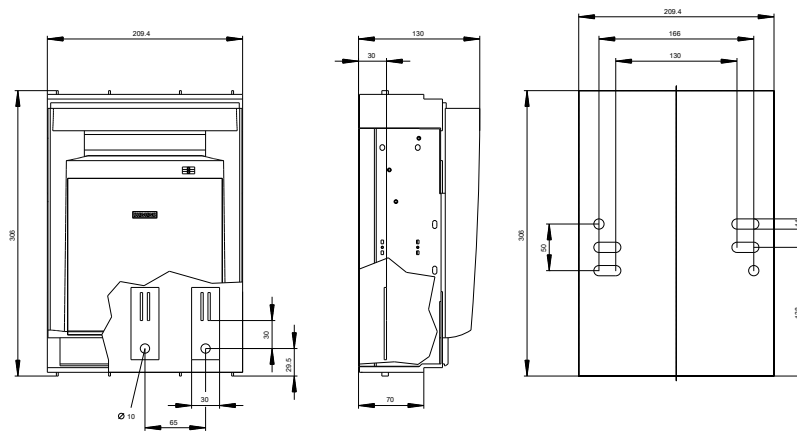
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3NP1153-1DA10

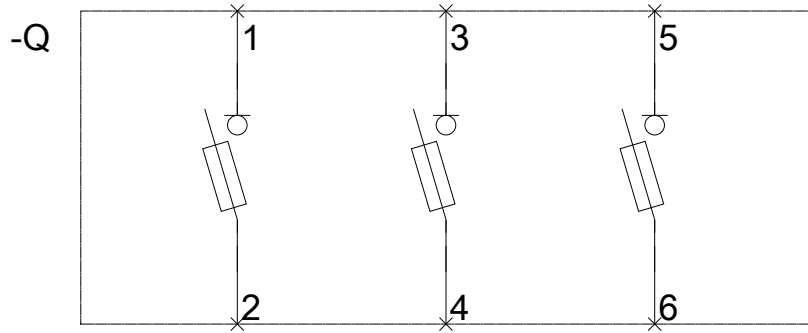
CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>





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