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 designation	3NP1 fuse switch disconnector
design of the safety monitoring	Without
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
let-through current with closed switch maximum	40 kA
mechanical service life (operating cycles) typical	1 000
I2t value with closed switch maximum	2 150 kA2.s
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
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-21 B at 240 V rated value	400 A
● at AC-21 B at 400 V rated value	400 A
● at AC-21 B at 500 V rated value	400 A
● at AC-21 B at 690 V rated value	400 A
● at AC-22 B at 240 V rated value	400 A
● at AC-22 B at 400 V rated value	400 A
● at AC-22 B at 500 V rated value	400 A
● at AC-22 B at 690 V 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 DC-21 B at 120 V rated value	400 A
● at DC-21 B at 240 V rated value	400 A
● at DC-21 B at 440 V rated value	400 A
● at DC-22 B at 120 V rated value	400 A
● at DC-22 B at 240 V rated value	400 A
● at DC-22 B at 440 V rated value	315 A
● at DC-23 B at 120 V rated value	250 A
● at DC-23 B at 240 V rated value	250 A
● at DC-23 B at 440 V rated value	160 A
let-through current with high-speed activation maximum permissible	40 kA
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
● 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
Main circuit	
operational current	
● rated value	400 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 function phase failure monitoring	No
product component	
● undervoltage release	No
● undervoltage release with leading contact	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
● locking capability	Yes
● phase failure monitoring	Yes
● fuse monitoring	Yes
● voltage trigger	No
● overvoltage protection monitoring	Yes

Product function	
product function overvoltage protection monitoring	No
Short circuit	
conditional short-circuit current (Iq)	
• 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	25 mm²
• solid or stranded maximum	240 mm²
• stranded minimum	25 mm²
• stranded maximum	240 mm²
tightening torque with screw-type terminals	
• minimum	10 N·m
• maximum	12 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	34 x 18 mm
type of connection technology	Flat terminal
Mechanical Design	
height	306 mm
width	209.4 mm
depth	130 mm
fastening method	mounting plate
fastening method	
• floor mounting	Yes
• rail mounting	No
mounting position	horizontal/vertical
net weight	4.21 kg
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C
Certificates	
reference code according to IEC 81346-2	Q
Approvals Certificates	

General Product Approval

Confirmation

General Product Approval		Test Certificates		Marine / Shipping	
Miscellaneous		Type Test Certificates/Test Report	Special Test Certificate		

other		Environment	
Miscellaneous	Confirmation	Environmental Con-	Environmental Con-

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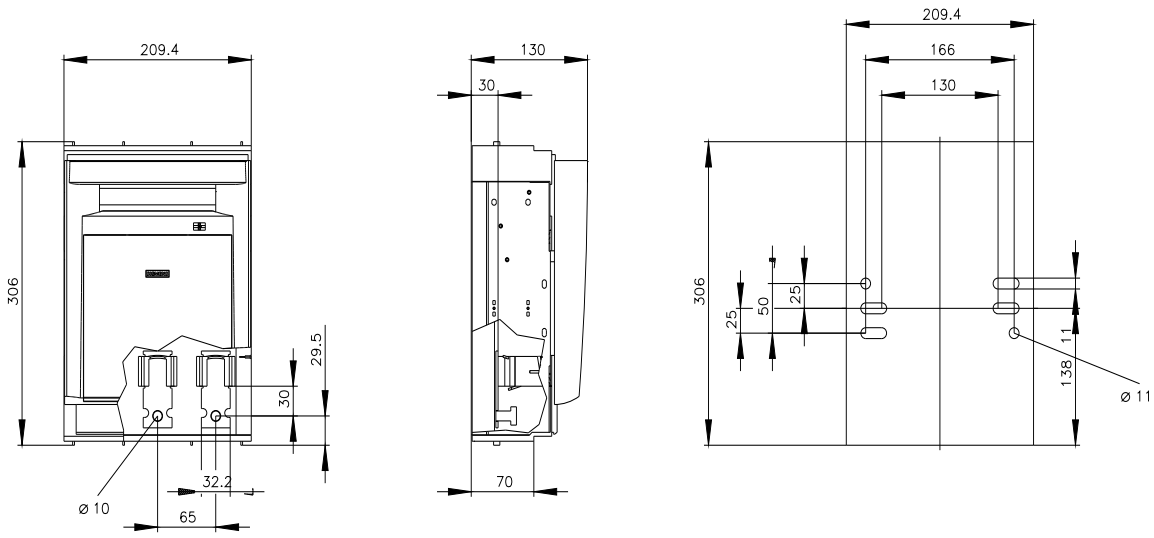
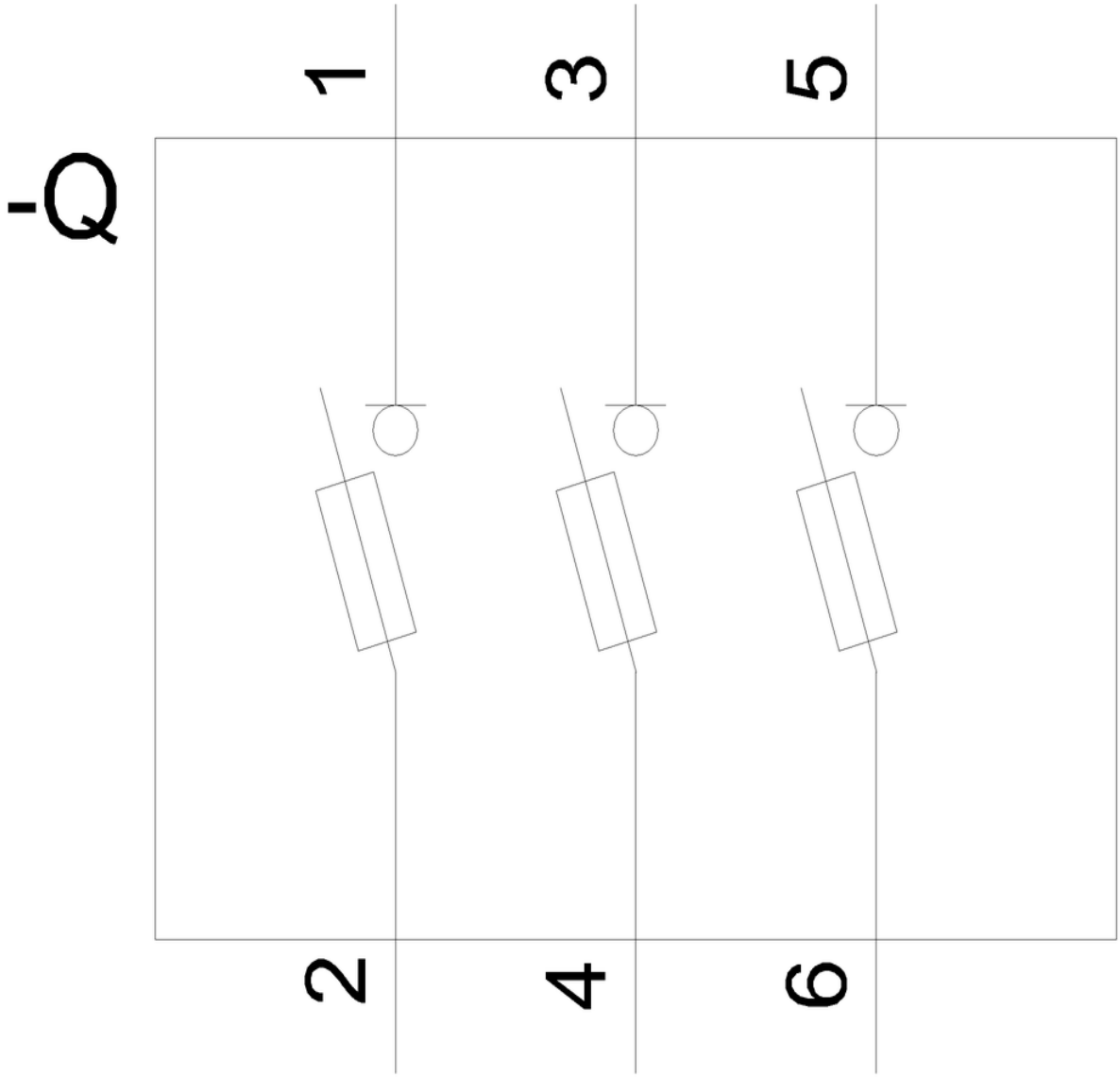
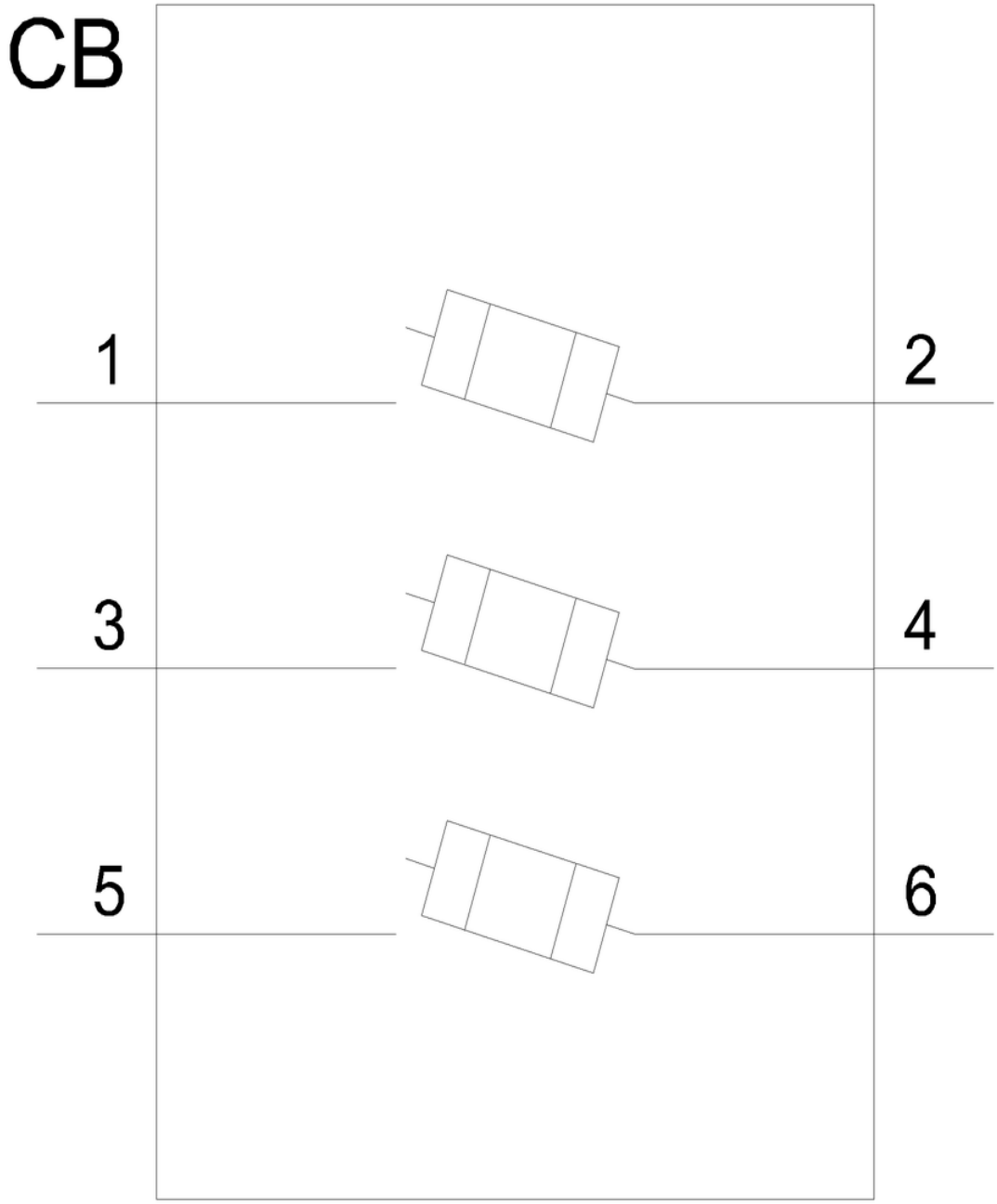
Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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







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