SIEMENS

Data sheet 3NP1163-1BC10

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH3, 630 A, for Busbar system 8US 60 mm, flat terminal, Cover level 32/70 mm

Model	
product designation	Fuse switch disconnector
busbar design	busbar thickness 5 or 10 mm
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 60 mm 8US busbar system
size of disconnecting link	3 and 2
size of fuse link	NH2, NH3
let-through current with closed switch maximum	60 kA
mechanical service life (operating cycles) typical	1 000
I2t value with closed switch maximum	5 400 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	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-21 B at 240 V rated value	630 A
● at AC-21 B at 400 V rated value	630 A
● at AC-21 B at 500 V rated value	630 A
● at AC-21 B at 690 V rated value	630 A
● at AC-22 B at 240 V rated value	630 A
● at AC-22 B at 400 V rated value	630 A
● at AC-22 B at 500 V rated value	630 A

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● at AC-22 B at 690 V rated value	500 A
● at AC-23 B at 690 V rated value	200 A
● at AC-23 B at 500 V rated value	500 A
● at AC-23 B at 400 V rated value	630 A
● at AC-23 B at 240 V rated value	630 A
● at DC-21 B at 120 V rated value	630 A
● at DC-21 B at 240 V rated value	630 A
● at DC-21 B at 440 V rated value	630 A
● at DC-22 B at 120 V rated value	630 A
● at DC-22 B at 240 V rated value	630 A
● at DC-22 B at 440 V rated value	500 A
● at DC-23 B at 120 V rated value	400 A
● at DC-23 B at 240 V rated value	400 A
● at DC-23 B at 440 V rated value	250 A
let-through current with high-speed activation maximum permissible	50 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	30 W
● with conventional rated thermal current without fuse per device	90 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
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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use 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

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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	50 kA
• at AC at 500 V with high-speed activation rated value	50 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	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 of the laminated conductors maximum	40 x 18 mm
type of connection technology	Flat terminal
Mechanical Design	
height	306 mm
width	249.4 mm
width of the busbar	
• minimum	12 mm
• maximum	30 mm
depth	164.5 mm
fastening method	busbar
fastening method	
• floor mounting	No
• rail mounting	Yes
mounting position	horizontal/vertical
busbar center-to-center spacing	60 mm
net weight	6.84 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	

CCC EG-Konf. UKCA Confirmation UR VDE

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

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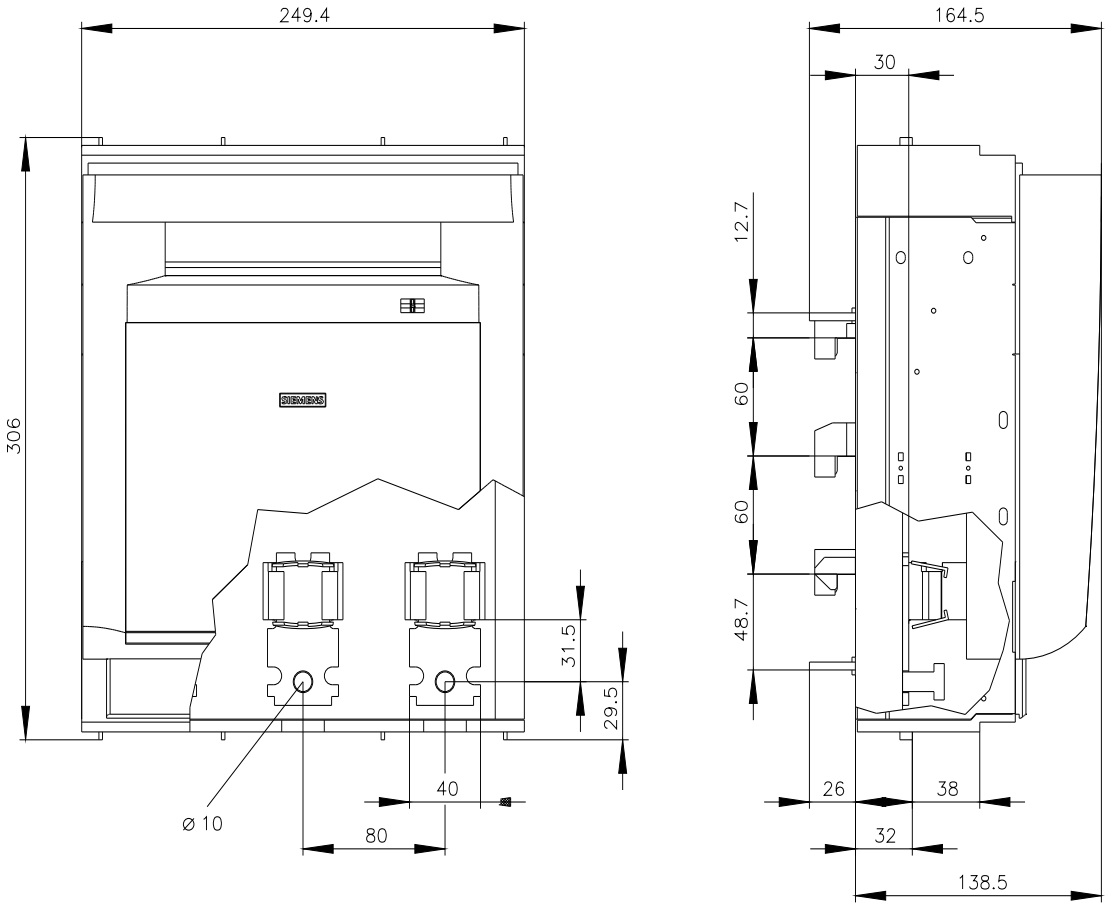
other		Environment	
Confirmation	Miscellaneous	Environmental Con-firmations	Environmental Con-firmations

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=3NP1163-1BC10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1BC10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1BC10
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications



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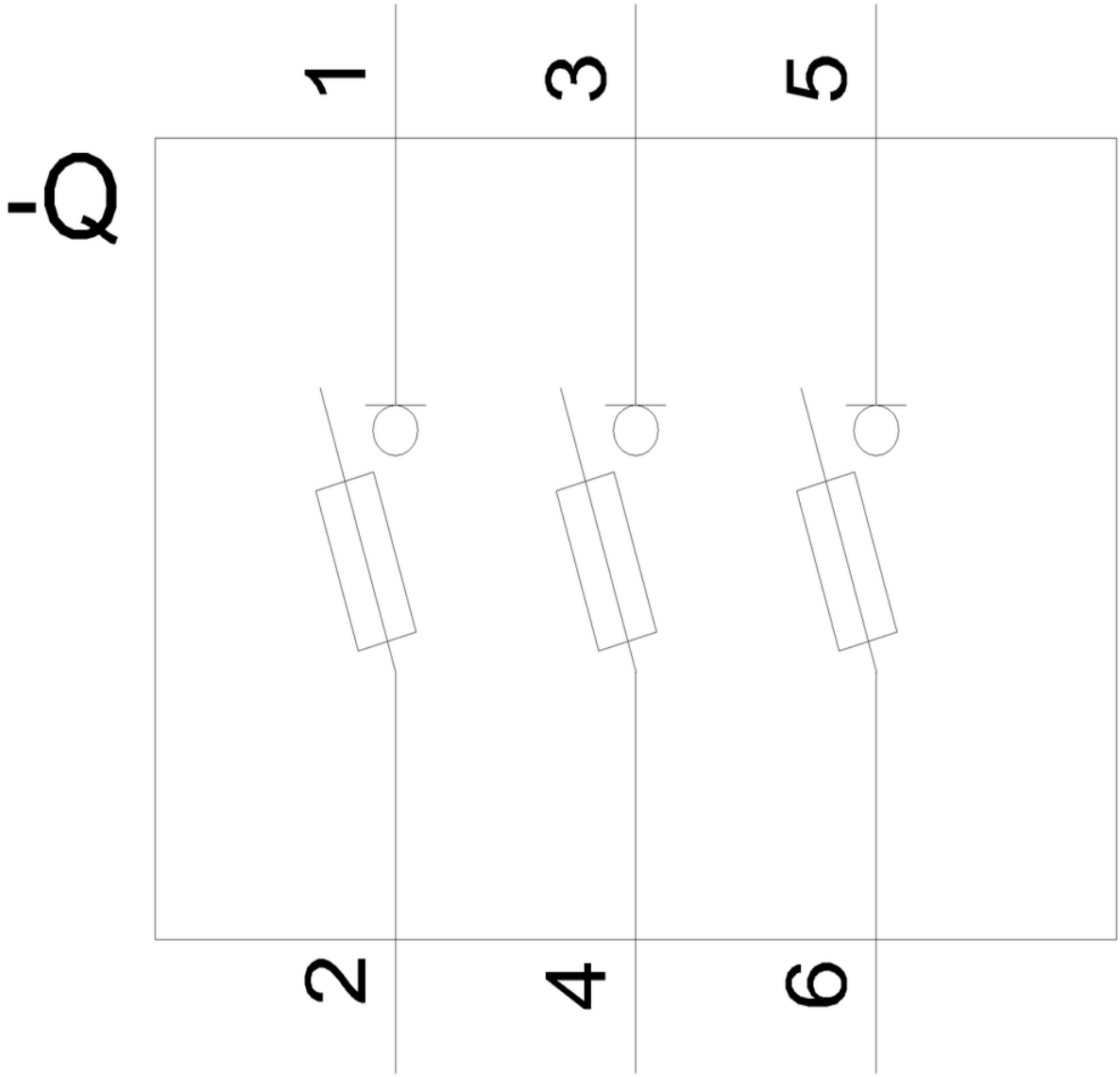

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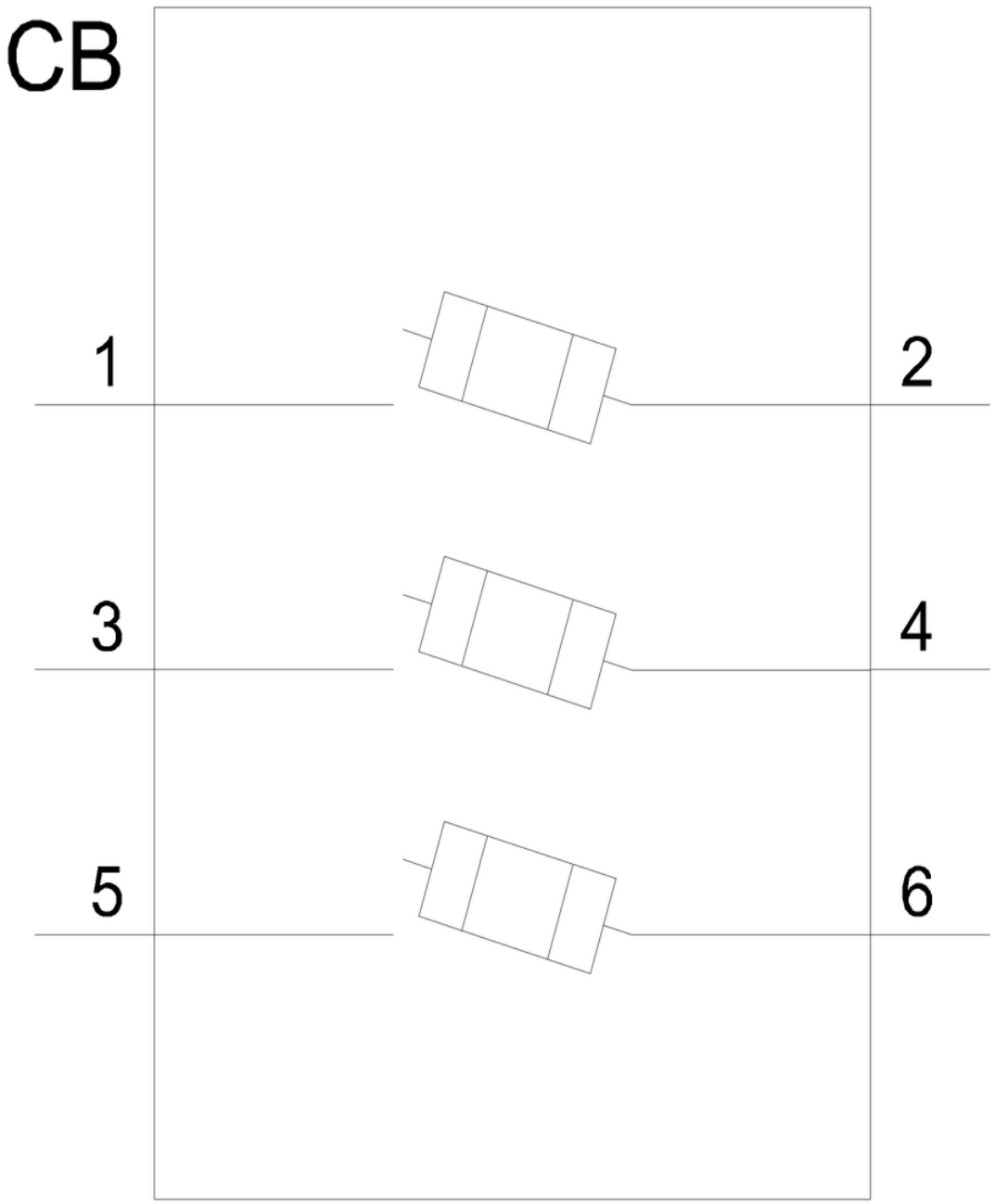

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