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Data sheet 3NP1133-1BC10

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for Busbar system 8US 60 mm, flat terminal, Cover level 32/70 mm

Model	
product brand name	SENTRON
product designation	3NP1 fuse switch disconnector
design of the product	cover level 32/70 mm
busbar design	busbar thickness 5 or 10 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	3
type of device	For 60 mm 8US busbar system
size of disconnecting link	00 and 000
size of fuse link	NH000, NH00
let-through current with closed switch maximum permissible	23 kA
mechanical service life (switching cycles) typical	2 000
power factor	
● at AC-22 B	0.65
● at AC-23 B	0.45
● 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	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
● on the front	IP40
Dissipation	

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power loss [W]	
● with conventional rated thermal current without fuse per pole	5 W
● with conventional rated thermal current without fuse per device	15 W
● for rated value of the current at AC in hot operating state per pole	17 W
● of the fuse per fuse maximum	12 W
Current	
operational current	
● at 35 °C rated value	160 A
● at 40 °C rated value	155 A
● at 45 °C rated value	145 A
● at 50 °C rated value	140 A
● at 55 °C rated value	133 A
● at AC rated value	160 A
● at AC-23 B at 690 V rated value	35 A
● at AC-23 B at 500 V rated value	63 A
● at AC-23 B at 400 V rated value	160 A
● at AC-23 B at 240 V rated value	160 A
● at AC-22 B at 690 V rated value	125 A
● at AC-22 B at 500 V rated value	160 A
● at AC-22 B at 400 V rated value	160 A
● at AC-22 B at 240 V rated value	160 A
● at AC-21 B at 240 V rated value	160 A
● at AC-21 B at 400 V rated value	160 A
● at AC-21 B at 500 V rated value	160 A
● at AC-21 B at 690 V rated value	160 A
● at DC-23 B at 440 V rated value	63 A
● at DC-23 B at 240 V rated value	100 A
● at DC-23 B at 120 V rated value	100 A
● at DC-22 B at 440 V rated value	125 A
● at DC-22 B at 240 V rated value	160 A
● at DC-22 B at 120 V rated value	160 A
● at DC-21 B at 440 V rated value	160 A
● at DC-21 B at 240 V rated value	160 A
● at DC-21 B at 120 V rated value	160 A
let-through current with high-speed activation maximum permissible	15 kA
Main circuit	
operational current	
● rated value	160 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 component	
● trip indicator	No
● undervoltage release	No
● undervoltage release with leading contact	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	

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● 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
Connections	
arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
● solid or stranded minimum	2.5 mm²
● solid or stranded maximum	95 mm²
● stranded minimum	2.5 mm²
● stranded maximum	95 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	24 x 12 mm
type of connection technology	Flat terminal
type of electrical connection for main current circuit	busbar connection
Mechanical Design	
height	206.2 mm
width	105.8 mm
depth	137.5 mm
fastening method	busbar
fastening method	
● floor mounting	No
● 4-hole front mounting	No
● front mounting with central attachment	No
● rail mounting	Yes
mounting position	horizontal/vertical
busbar center-to-center spacing	60 mm
net weight	0.98 kg
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

Confirmation

Miscellaneous

Declaration of Conformity

Test Certificates

Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping

other

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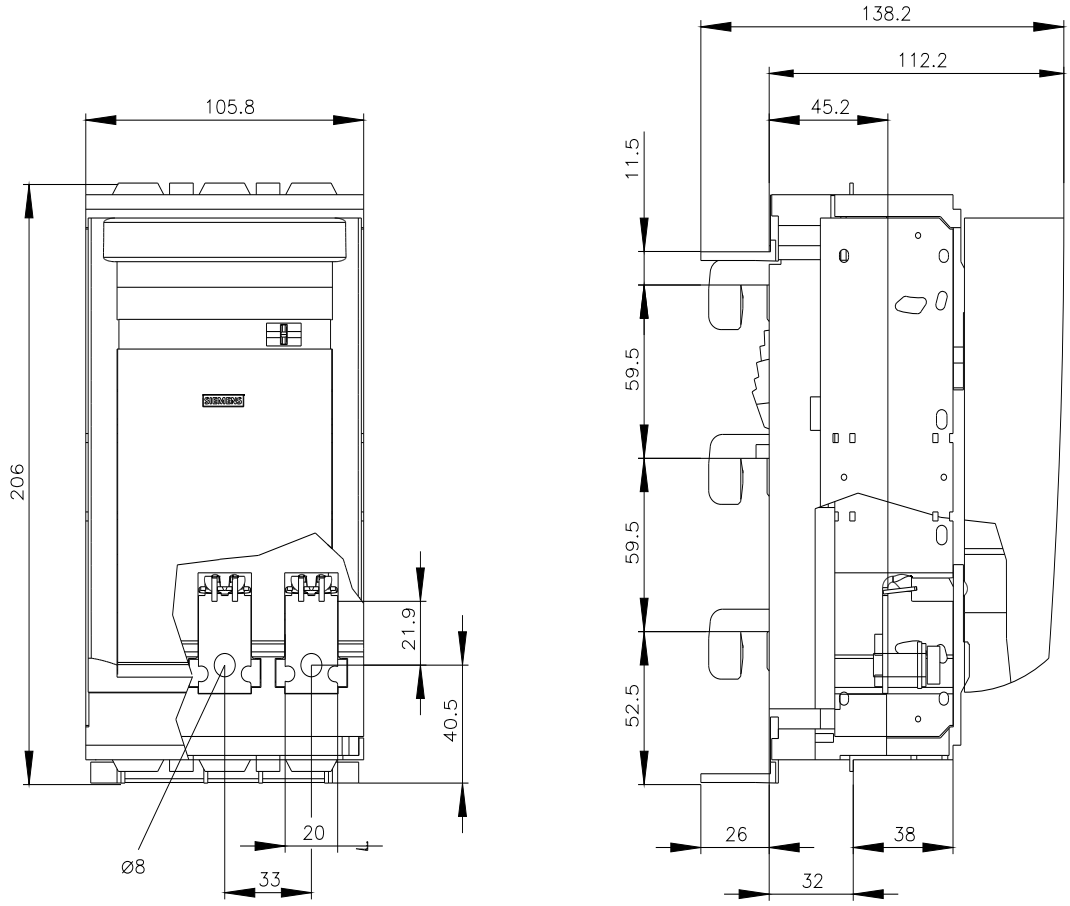
Miscellaneous

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=3NP1133-1BC10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1BC10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1BC10
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications



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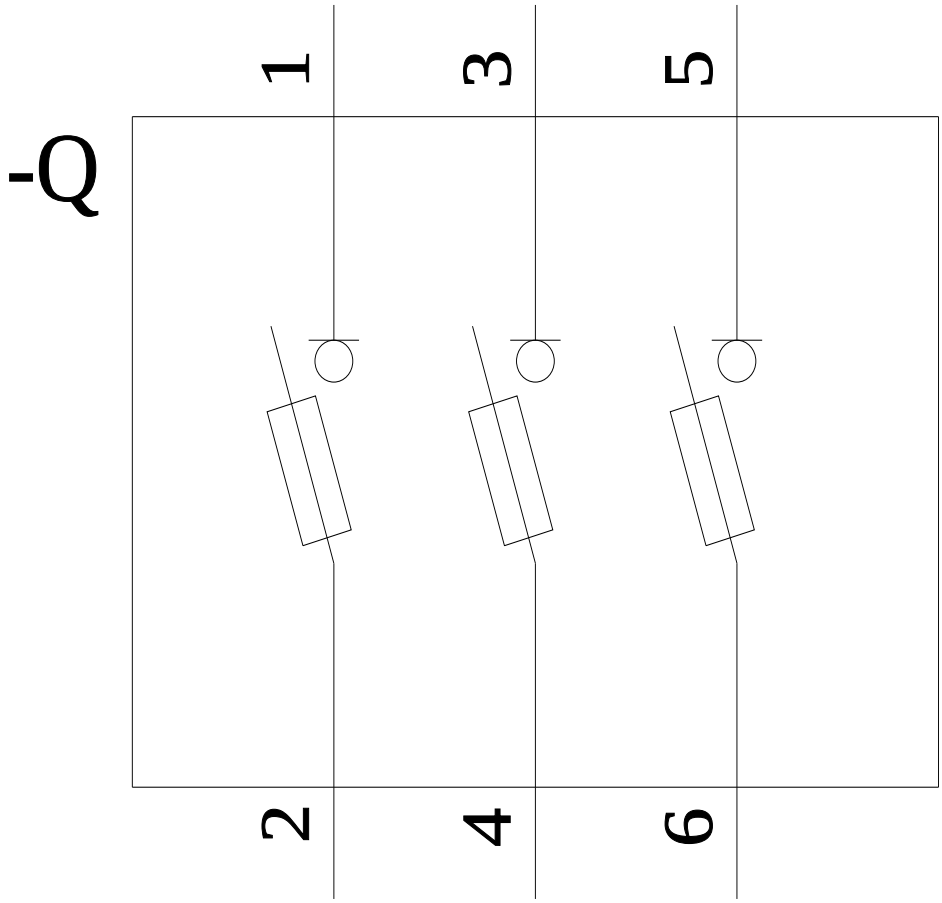

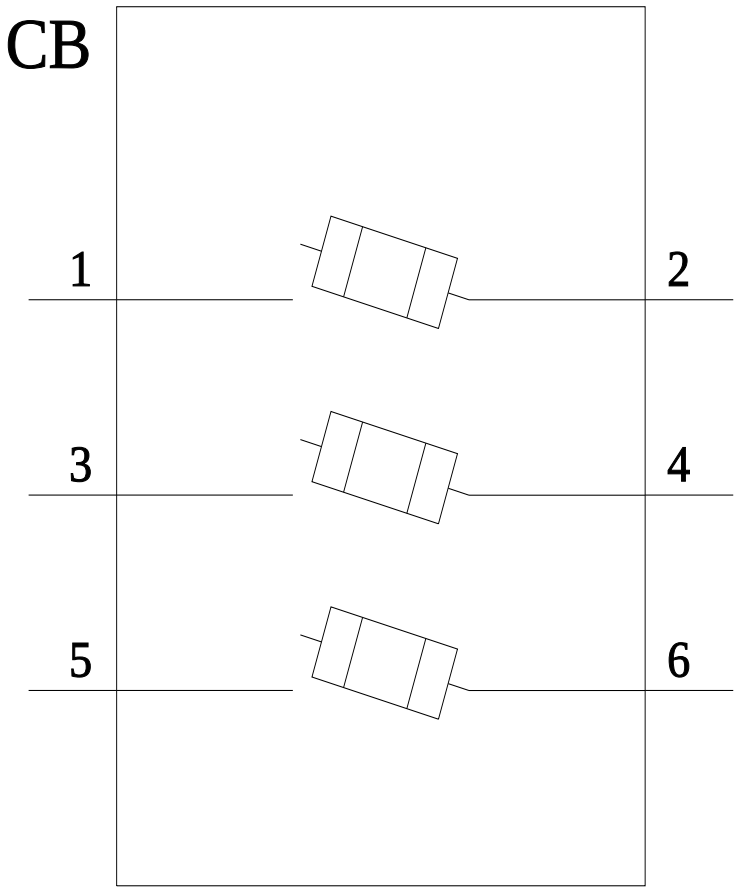

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