SIEMENS

Data sheet 3NP1113-1BC20

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH000 narrow, 125 A, for busbar systems 60 mm, box terminal, cable outlet downwards Cover level 32/60/70 mm

Model	
product designation	3NP1 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 busbar systems
size of disconnecting link	0
size of fuse link	NH000
let-through current with closed switch maximum	15 kA
mechanical service life (operating cycles) typical	2 000
I2t value with closed switch maximum	150 kA2.s
power factor	
● at AC-22 B	0.65
● at AC-23 B	0.45
fuse system	LV HRC fuse
degree of pollution	2
Voltage	
insulation voltage	
● rated value	800 V
● with degree of pollution 2 at AC rated value	800 V
power factor at AC-21 B	0.95
surge voltage resistance rated value	6 kV
operating voltage	
● at AC rated value maximum	690 V
Protection class	
protection class IP	
● with closed switch with cover or cable lug cover	IP30
● open	IP10
Dissipation	
power loss [W]	
● with conventional rated thermal current without fuse per pole	4.6 W
● with conventional rated thermal current without fuse per device	13.8 W
● for rated value of the current at AC in hot operating state per pole	13.6 W
● of the fuse per fuse maximum	9 W
operational current	

● at 35 °C rated value	125 A
● at 40 °C rated value	111 A
● at 45 °C rated value	95 A
● at 50 °C rated value	76 A
● at 55 °C rated value	51 A
● at AC-21 B at 240 V rated value	125 A
● at AC-21 B at 400 V rated value	125 A
● at AC-21 B at 500 V rated value	125 A
● at AC-21 B at 690 V rated value	80 A
● at AC-22 B at 240 V rated value	125 A
● at AC-22 B at 400 V rated value	125 A
● at AC-22 B at 500 V rated value	125 A
● at AC-23 B at 400 V rated value	63 A
● at AC-23 B at 240 V rated value	63 A
let-through current with high-speed activation maximum permissible	10 kA
Main circuit	
operational current	
● rated value	125 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	
● 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	No
● fuse monitoring	No
● voltage trigger	No
● overvoltage protection monitoring	No
Product function	
product function 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	1.5 mm²
● solid or stranded maximum	50 mm²
● finely stranded with core end processing minimum	1.5 mm²
● finely stranded with core end processing maximum	35 mm²
● stranded minimum	16 mm²
● stranded maximum	50 mm²
tightening torque with screw-type terminals	
● minimum	4 N·m
● maximum	5 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	6 x (9 x 0.8) mm
type of connection technology	Box terminal
Mechanical Design	
height	208 mm

width	53 mm
width of the busbar	
● minimum	12 mm
● maximum	30 mm
depth	129 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	0.61 kg

Environmental conditions

ambient temperature during operation	
● minimum	-25 °C
● maximum	70 °C
ambient temperature during storage	
● minimum	-50 °C
● maximum	80 °C

Certificates

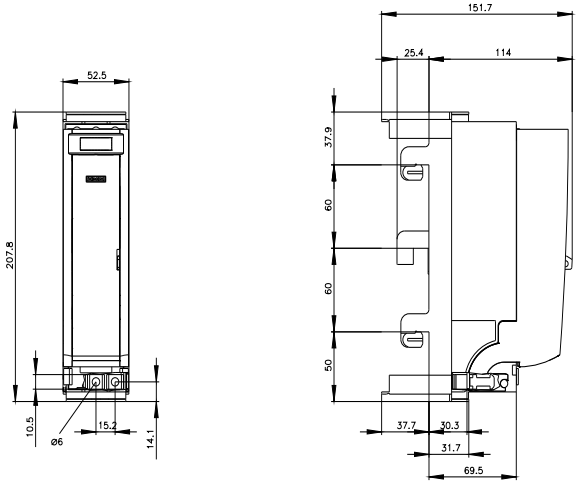
reference code according to IEC 81346-2	Q

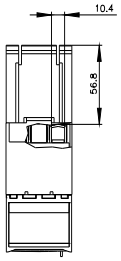
General Product Approval		Declaration of Conformity			Test Certificates
Confirmation	Miscellaneous	EAC	UKCA	CE EG-Konf.	Type Test Certificates/Test Report

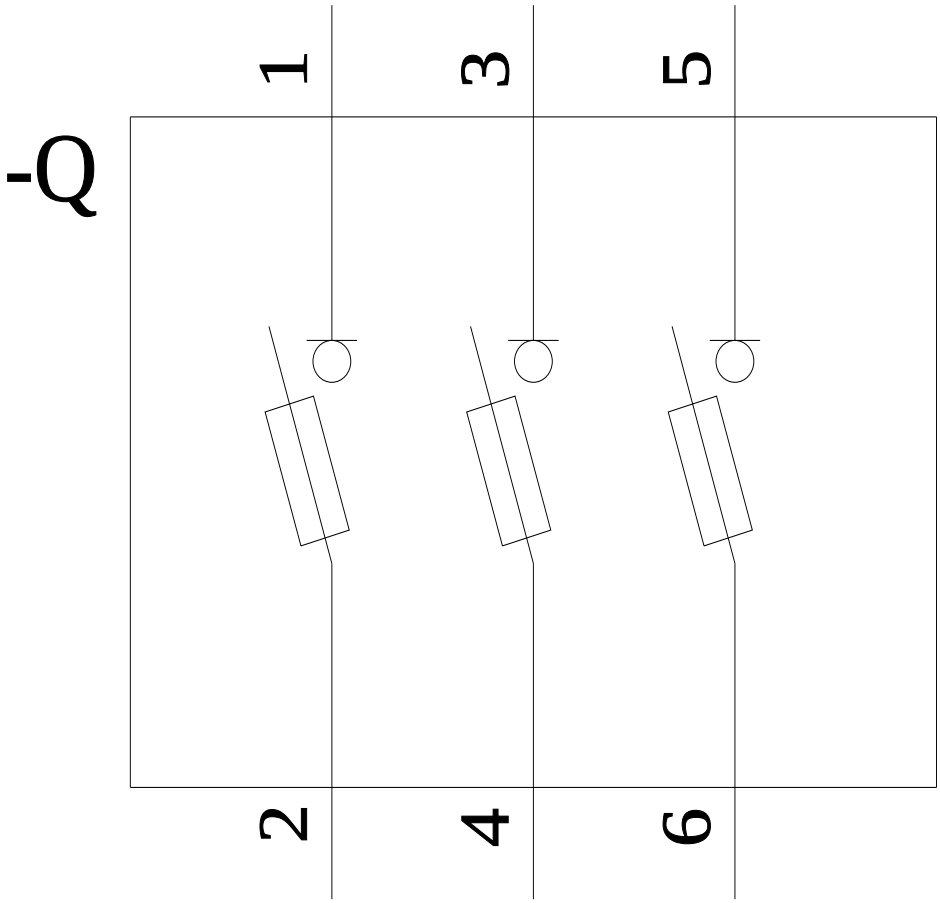
other		Environment
Miscellaneous	Confirmation	Environmental Confirmations

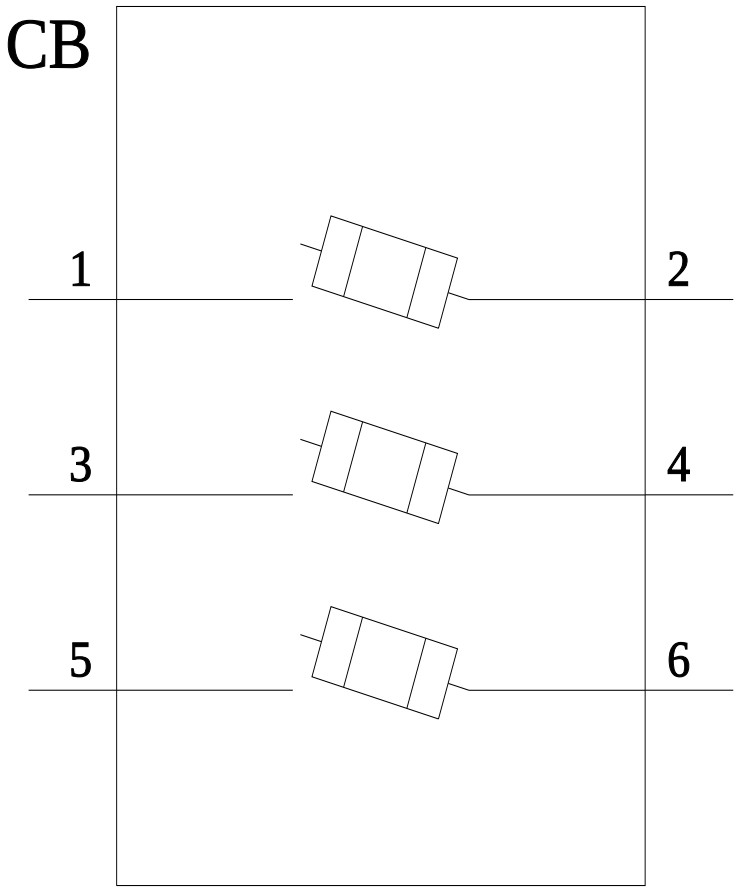
Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
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=3NP1113-1BC20
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3NP1113-1BC20
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1113-1BC20
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications









last modified: 4/19/2023