SIEMENS

Data sheet 3NP1133-1CA10



SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for assembly and installation on mounting plate, flat terminal, Cover level 45 mm

product brand name	SENTRON
product designation	3NP1 fuse switch disconnector
design of the product	cover level 45 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 assembly and installation on mounting plate
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	
power loss [W]	

 with conventional rated thermal current without fuse per pole 	5 W
with conventional rated thermal current without fuse	15 W
per device ■ for rated value of the current at AC in hot operating	17 W
state per pole of the fuse per fuse maximum	12 W
	1Z VV
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	No
trip indicator undervoltage release	No No
undervoltage release with leading contact	No No
undervoltage release with leading contact product feature coalable.	No You
product extension quviliany switch	Yes Yes
product extension auxiliary switch product extension optional	1 50
locking capability	Yes
	160

• 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 arrangement of electrical connectors for main current other connectable conductor cross-section for main contacts solid or stranded minimum 2.5 mm² • solid or stranded maximum 95 mm² 2.5 mm² stranded minimum stranded maximum 95 mm² tightening torque with screw-type terminals 10 N·m • minimum • maximum 12 N·m type of connectable conductor cross-sections of the 24 x 12 mm laminated conductors maximum type of connection technology Flat terminal type of electrical connection for main current circuit busbar connection Mechanical Design height 202 mm width 105.8 mm depth 86.5 mm fastening method mounting plate fastening method • floor mounting Yes • 4-hole front mounting No • front mounting with central attachment No • rail mounting Nο horizontal/vertical mounting position net weight 0.73 kg **Environmental conditions** ambient temperature during operation -25 °C • minimum 55 °C maximum ambient temperature during storage • minimum -50 °C

• maximum 80 °C

General Product Approval

Confirmation







Miscellaneous



Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>





other

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=3NP1133-1CA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1CA10

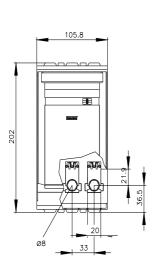
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1CA10

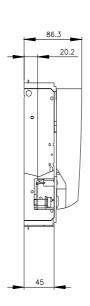
CAx-Online-Generator

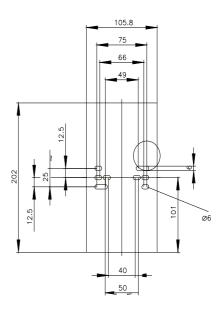
http://www.siemens.com/cax

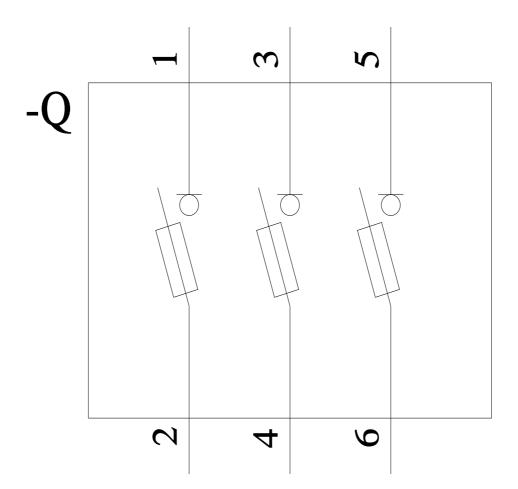
Tender specifications

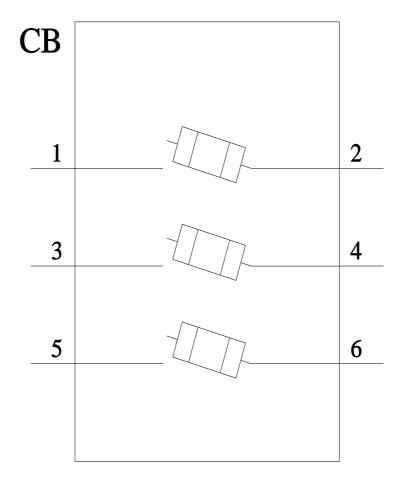
http://www.siemens.com/specifications











Ø