SIEMENS

Data sheet

3NP1123-1CA20



SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH000, 160 A, for assembly and installation on Mounting plate, box terminal, Cover level 45 $\rm mm$

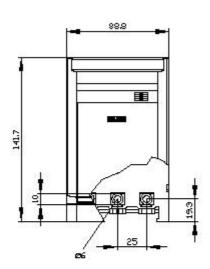
Model					
product brand name	SENTRON				
product designation	3NP1 fuse switch disconnector				
design of the product	cover level 45 mm				
design of the safety monitoring	Without				
design of the actuating element	Cover handle				
design of the load switch / strip form	No				
type of the driving mechanism / motor drive	No				
General technical data					
number of poles	3				
type of device	For assembly and installation on mounting plate				
size of disconnecting link	000				
size of fuse link	NH000				
let-through current / with closed switch / maximum permissible	15 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				
• on the front	IP40				

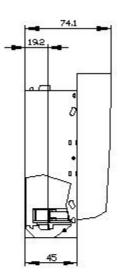
Dissipation For the set of the conventional rated thermal current / without fuse / per pole 5 W • with conventional rated thermal current / without fuse / per device 15 W • for rated value of the current / at AC / in hot operating state / per pole 14 W • of the fuse / per device 14 W operating state / per pole 9 W Current • at 35 °C / rated value 150 A • at 36 °C / rated value 130 A • at 35 °C / rated value • at 35 °C / rated value 120 A • at 35 °C / rated value • at AC - 23 B / at 600 V / rated value 160 A • at AC - 23 B / at 600 V / rated value • at AC - 23 B / at 600 V / rated value 160 A • at AC - 23 B / at 600 V / rated value • at AC - 23 B / at 600 V / rated value 160 A • at AC - 23 B / at 600 V / rated value • at AC - 23 B / at 600 V / rated value 160 A • at AC - 23 B / at 600 V / rated value • at AC - 23 B / at 600 V / rated value 160 A • at AC - 22 B / at 600 V / rated value • at AC - 22 B / rate 00 V / rated value 160 A • at AC - 22 B / rate 00 V / rated value • at AC - 22 B / rate 00 V / rated value 160 A • at AC - 22 B / rate 00 V / rated value • at AC - 22 B / rate 00 V / rated value 160 A • at AC - 22 B / rate 00 V / rated value • at AC - 22 B / rate 00 V / rated value 16	• open	IP20
power loss [M] • 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 14 W • of the fuse / per fuse / maximum 9 W Current 9 W corrent 160 A • at 45 °C / rated value 160 A • at 45 °C / rated value 140 A • at 50 °C / rated value 140 A • at 50 °C / rated value 160 A • at AC 23 B / at 900 V / rated value 160 A • at AC 23 B / at 900 V / rated value 160 A • at AC 23 B / at 900 V / rated value 160 A • at AC 23 B / at 900 V / rated value 160 A • at AC 23 B / at 900 V / rated value 160 A • at AC 23 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 22 B / at 900 V / rated value 160 A • at AC 21 B / at 900 V / rated value 160 A <td></td> <td></td>		
• with conventional rated thermal current / without 5 W fuse / per pole • with conventional rated thermal current / without 15 W • for rated value of the current / at AC / in hot 14 W operating state / per pole 9 W current • of the fuse / per fuse / maximum 9 W operational current • 160 A • 14 W • at 35 °C / rated value 160 A • • • • • • • • • • • • • • • • • • •		
• with original rated thermal current / without fuse / per device 15 W • or the fuse / per tase / maximum 9 W Current • of the fuse / per tase / maximum 9 W Current • eith of the current / at AC / in hot operating state / per pole 9 W Current • eith of C/ rated value 160 A • eith of C/ rated value 160 A • eith of C/ rated value 100 A • eith of C/ rated value 100 A • eith of C/ rated value 100 A • eith AC / rated value 100 A • eith AC / ared value 160 A • eith AC / ared value 100 A • eith AC / ared value 160 A • eith AC / ared valu	with conventional rated thermal current / without	5 W
• of the fuse / per fuse / maximum 9 W Current • of the fuse / per fuse / maximum 9 W • et al 50 °C / rated value 160 A • of the fuse / per fuse / maximum • et al 50 °C / rated value 150 A • of the fuse / per fuse / maximum • et al 50 °C / rated value 130 A • of the fuse / per fuse / maximum • et al 50 °C / rated value 120 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 500 V / rated value 160 A • of the fuse / per fuse / maximum • et al C-23 B / at 240 V / rated value 160 A • of the fuse / per fuse / maximum • of DC-23 B / at 120 V / rated value	with conventional rated thermal current / without	15 W
• of the fuse / per fuse / maximum 9 W Current	 for rated value of the current / at AC / in hot 	14 W
operational current 160 A et at 35 °C / rated value 160 A et at 40 °C / rated value 150 A et at 5° °C / rated value 140 A et at 5° °C / rated value 130 A et at 5° °C / rated value 120 A et at 5° °C / rated value 120 A et AC / rated value 160 A et AC / rated value 160 A et AC / rated value 160 A et AC -23 B / at 400 V / rated value 160 A et AC-23 B / at 400 V / rated value 160 A et AC-23 B / at 400 V / rated value 160 A et AC-23 B / at 400 V / rated value 160 A et AC-23 B / at 400 V / rated value 160 A et AC-23 B / at 240 V / rated value 160 A et AC-23 B / at 240 V / rated value 160 A et AC-23 B / at 240 V / rated value 160 A et AC-21 B / at 240 V / rated value 160 A et AC-21 B / at 240 V / rated value 160 A et AC-23 B / at 240 V / rated value 160 A et AC-23 B / at 240 V / rated value 160 A et AC-23 B / at 240 V / rated value 160		9 W
• at 35 °C / rated value 160 A • at 45 °C / rated value 140 A • at 55 °C / rated value 140 A • at 55 °C / rated value 120 A • at AC / rated value 160 A • at AC / 23 B / at 600 V / rated value 160 A • at AC / 23 B / at 400 V / rated value 160 A • at AC / 23 B / at 400 V / rated value 160 A • at AC / 23 B / at 400 V / rated value 160 A • at AC / 22 B / at 600 V / rated value 160 A • at AC / 22 B / at 400 V / rated value 160 A • at AC / 22 B / at 20 V / rated value 160 A • at AC / 22 B / at 600 V / rated value 160 A • at AC / 21 B / at 600 V / rated value 160 A • at AC / 22 B / at 400 V / rated value 160 A • at AC / 21 B / at 600 V / rated value 160 A • at AC / 21 B / at 400 V / rated value 160 A • at AC / 21 B / at 20 V / rated value 160 A	Current	
• at 35 °C / rated value 160 A • at 45 °C / rated value 140 A • at 55 °C / rated value 140 A • at 55 °C / rated value 120 A • at AC / rated value 160 A • at AC / 23 B / at 600 V / rated value 160 A • at AC / 23 B / at 400 V / rated value 160 A • at AC / 23 B / at 400 V / rated value 160 A • at AC / 23 B / at 400 V / rated value 160 A • at AC / 22 B / at 600 V / rated value 160 A • at AC / 22 B / at 400 V / rated value 160 A • at AC / 22 B / at 20 V / rated value 160 A • at AC / 22 B / at 600 V / rated value 160 A • at AC / 21 B / at 600 V / rated value 160 A • at AC / 22 B / at 400 V / rated value 160 A • at AC / 21 B / at 600 V / rated value 160 A • at AC / 21 B / at 400 V / rated value 160 A • at AC / 21 B / at 20 V / rated value 160 A		
• at 45 °C / rated value140 A• at 50 °C / rated value130 A• at 55 °C / rated value120 A• at AC / rated value160 A• at AC-23 B / at 690 V / rated value25 A• at AC-23 B / at 0V / rated value160 A• at AC-23 B / at 0V / rated value160 A• at AC-23 B / at 0V / rated value160 A• at AC-23 B / at 0V / rated value160 A• at AC-23 B / at 0V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-21 B / at 000 V / rated value160 A• at AC-21 B / at 000 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-23 B / at 240 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-23 B / at 240 V / rated value160 A• at DC-23 B / at 240 V / rated value100 A• at DC-23 B / at 240 V / rated value100 A• at DC-22 B / at 120 V / rated value100 A• at DC-22 B / at 240 V / rated value100 A• at DC-21 B / at 440 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• with capacitive load / at 400		160 A
• at 50 °C / rated value130 A• at 55 °C / rated value120 A• at AC / rated value160 A• at AC / rated value25 A• at AC / 23 B / at 500 V / rated value40 A• at AC / 23 B / at 500 V / rated value160 A• at AC / 23 B / at 400 V / rated value160 A• at AC / 23 B / at 400 V / rated value160 A• at AC / 23 B / at 240 V / rated value160 A• at AC / 22 B / at 500 V / rated value160 A• at AC / 22 B / at 500 V / rated value160 A• at AC / 22 B / at 500 V / rated value160 A• at AC / 22 B / at 600 V / rated value160 A• at AC / 21 B / at 600 V / rated value160 A• at AC / 21 B / at 500 V / rated value160 A• at AC / 21 B / at 500 V / rated value160 A• at AC / 21 B / at 400 V / rated value160 A• at AC / 21 B / at 400 V / rated value160 A• at AC / 21 B / at 240 V / rated value160 A• at AC / 21 B / at 240 V / rated value160 A• at DC / 23 B / at 240 V / rated value100 A• at DC / 23 B / at 240 V / rated value100 A• at DC / 23 B / at 240 V / rated value100 A• at DC / 23 B / at 240 V / rated value100 A• at DC / 21 B / at 240 V / rated value100 A• at DC / 21 B / at 240 V / rated value100 A• at DC / 21 B / at 240 V / rated value100 A• at DC / 21 B / at 240 V / rated value100 A• at DC / 21 B / at 240 V / rated value100 A• at DC / 21 B / at 240 V / rated value	• at 40 °C / rated value	150 A
• at 35 °C / rated value120 A• at AC / rated value160 A• at AC-23 B / at 690 V / rated value25 A• at AC-23 B / at 600 V / rated value40 A• at AC-23 B / at 400 V / rated value160 A• at AC-23 B / at 500 V / rated value160 A• at AC-23 B / at 690 V / rated value160 A• at AC-23 B / at 690 V / rated value160 A• at AC-22 B / at 690 V / rated value125 A• at AC-22 B / at 690 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-21 B / at 500 V / rated value160 A• at AC-21 B / at 500 V / rated value160 A• at AC-21 B / at 500 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 200 V / rated value160 A• at AC-21 B / at 200 V / rated value160 A• at DC-23 B / at 440 V / rated value80 A• at DC-23 B / at 440 V / rated value80 A• at DC-23 B / at 440 V / rated value50 A• at DC-22 B / at 240 V / rated value100 A• at DC-21 B / at 440 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A <td< td=""><td>• at 45 °C / rated value</td><td>140 A</td></td<>	• at 45 °C / rated value	140 A
• at AC / rated value 160 A • at AC-23 B / at 500 V/ rated value 25 A • at AC-23 B / at 00 V/ rated value 160 A • at AC-23 B / at 00 V/ rated value 160 A • at AC-23 B / at 00 V/ rated value 160 A • at AC-23 B / at 00 V/ rated value 160 A • at AC-22 B / at 600 V/ rated value 50 A • at AC-22 B / at 00 V/ rated value 160 A • at AC-22 B / at 00 V/ rated value 160 A • at AC-22 B / at 00 V/ rated value 160 A • at AC-22 B / at 00 V/ rated value 160 A • at AC-21 B / at 00 V/ rated value 160 A • at AC-21 B / at 400 V/ rated value 160 A • at AC-21 B / at 400 V/ rated value 160 A • at AC-21 B / at 400 V/ rated value 160 A • at AC-21 B / at 400 V/ rated value 160 A • at DC-32 B / at 400 V/ rated value 25 A • at DC-23 B / at 20 V/ rated value 80 A • at DC-23 B / at 20 V/ rated value 50 A • at DC-22 B / at 240 V/ rated value 100 A • at DC-21 B / at 400 V/ rated value 100 A • at DC-21 B / at 240 V/ rated value 160 A • at DC-21 B / at 240		130 A
• at AC-23 B / at 690 V / rated value25 A• at AC-23 B / at 400 V / rated value40 A• at AC-23 B / at 400 V / rated value160 A• at AC-23 B / at 400 V / rated value160 A• at AC-22 B / at 690 V / rated value50 A• at AC-22 B / at 600 V / rated value125 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-21 B / at 690 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at DC-23 B / at 400 V / rated value25 A• at DC-23 B / at 400 V / rated value80 A• at DC-23 B / at 400 V / rated value80 A• at DC-23 B / at 400 V / rated value80 A• at DC-23 B / at 400 V / rated value100 A• at DC-22 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 20 V / rated value160 A• at DC-21 B / at 20 V / rated value160 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• at DC-21 B / at 20 V / rated value100 A• with capacitive load / at 400 V / rated v	• at 55 °C / rated value	120 A
• at AC-23 B / at 500 V / rated value40 A• at AC-23 B / at 400 V / rated value160 A• at AC-23 B / at 240 V / rated value160 A• at AC-22 B / at 600 V / rated value50 A• at AC-22 B / at 500 V / rated value125 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-22 B / at 400 V / rated value160 A• at AC-21 B / at 690 V / rated value160 A• at AC-21 B / at 500 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at DC-23 B / at 400 V / rated value160 A• at DC-23 B / at 400 V / rated value80 A• at DC-23 B / at 400 V / rated value80 A• at DC-22 B / at 400 V / rated value80 A• at DC-22 B / at 400 V / rated value100 A• at DC-22 B / at 400 V / rated value100 A• at DC-22 B / at 440 V / rated value100 A• at DC-21 B / at 120 V / rated value100 A• at DC-21 B / at 400 V / rated value160 A• at DC-21 B / at 400 V / rated value100 A• at DC-21 B / at 400 V / rated value100 A• at DC-21 B / at 400 V / rated value100 A• at DC-21 B / at 400 V / rated value100 A• at DC-21 B / at 400 V / rated value100 A• with capacitive load / at 400 V	 at AC / rated value 	160 A
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• at AC-22 B / at 690 V / rated value50 A• at AC-22 B / at 500 V / rated value125 A• at AC-22 B / at 400 V / rated value160 A• at AC-21 B / at 690 V / rated value160 A• at AC-21 B / at 690 V / rated value160 A• at AC-21 B / at 500 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-21 B / at 400 V / rated value160 A• at AC-23 B / at 440 V / rated value25 A• at DC-23 B / at 440 V / rated value80 A• at DC-23 B / at 240 V / rated value80 A• at DC-23 B / at 240 V / rated value100 A• at DC-22 B / at 240 V / rated value100 A• at DC-22 B / at 240 V / rated value100 A• at DC-21 B / at 440 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• at DC-21 B / at 240 V / rated value100 A• with capacitive load / at 400 V / rated value72 A• with capacitive load / at 500 V / rated value55 AAuxiliary circuit55 A		
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et AC-21 B / at 690 V / rated value 160 A et AC-21 B / at 500 V / rated value 160 A et AC-21 B / at 400 V / rated value 160 A et AC-21 B / at 240 V / rated value 160 A et AC-21 B / at 240 V / rated value 160 A et DC-23 B / at 240 V / rated value 25 A et DC-23 B / at 240 V / rated value 80 A et DC-22 B / at 240 V / rated value 80 A et DC-22 B / at 240 V / rated value 100 A et DC-22 B / at 240 V / rated value 100 A et DC-22 B / at 240 V / rated value 100 A et DC-22 B / at 240 V / rated value 100 A et DC-21 B / at 240 V / rated value 100 A et DC-21 B / at 240 V / rated value 100 A et DC-21 B / at 240 V / rated value 100 A et DC-21 B / at 240 V / rated value 100 A et C-21 B / at 240 V / rated value 100 A et tDC-21 B / at 240 V / rated value 100 A et tDC-21 B / at 240 V / rated value 100 A et tDc-21 B / at 200 V / rated value 10 kA Ide-through current 100 A ewith capacitive load / at 400 V / rated value 72 A ewith capacitive loa		
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with capacitive load / at 500 V / rated value 55 A Auxiliary circuit		100 A
with capacitive load / at 500 V / rated value 55 A Auxiliary circuit	 with capacitive load / at 400 V / rated value 	72 A
Auxiliary circuit		55 A
number of CO contacts / for auxiliary contacts		
	number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts 0	number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts 0	number of NO contacts / for auxiliary contacts	0
Suitability	Suitability	
suitability for use	suitability for use	
main switch No	-	No
switch disconnector Yes	switch disconnector	Yes
EMERGENCY OFF switch No	EMERGENCY OFF switch	No
safety switch Yes	 safety switch 	Yes
maintenance/repair switch Yes	-	Yes
Product details		

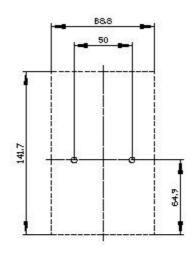
product feature / interlock	Yes
 product component / trip indicator 	– No
 product function / phase failure monitoring 	No
 product component / undervoltage release 	No
 product component / undervoltage release with 	No
leading contact	
product feature / sealable	Yes
product extension / auxiliary switch	Yes
product extension / optional	
 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
Short circuit	
conditional short-circuit current (Iq)	
rated value	80 kA
 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 	120 kA
 with closed switch / at AC / at 500 V / rated value 	120 kA
 with closed switch / at AC / at 690 V / rated value 	100 kA
Connections	
arrangement of electrical connectors / for main current	other
circuit	
connectable conductor cross-section / for main contacts	
solid or stranded / minimum	1.5 mm ²
 solid or stranded / maximum 	50 mm ²
 finely stranded / with core end processing / minimum 	1.5 mm²
 finely stranded / with core end processing / maximum 	35 mm²
 stranded / minimum 	1.5 mm²
stranded / maximum	50 mm²
tightening torque / with screw-type terminals minimum 	3.5 N·m
• maximum	4 N·m
type of connectable conductor cross-sections / of the laminated conductors / maximum	8 x 8 mm
type of connection technology	Box terminal
type of electrical connection / for main current circuit	box terminal
Mechanical Design	
height	141.7 mm
width	88.8 mm
depth	74.1 mm
fastening method	mounting plate
fastening method	
floor mounting	Yes
4-hole front mounting	No
 front mounting with central attachment 	No

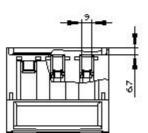
 rail mounting 			No			
mounting position		horizontal/vertical				
net weight		0.47 kg				
Environmental condit	ions					
ambient temperature	/ during operation					
 minimum 			-25 °C)		
 maximum 			55 °C			
ambient temperature	/ during storage					
 minimum 			-50 °C			
 maximum 		0° C				
General Product Ap	oproval				Declaration of Conformity	Test Certificates
CCC	SAN ®	<u>Miscellaneo</u>	<u>ous</u>	EHC	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>
Test Certificates	Marine / Shipping			other		
<u>Type Test Certific-</u> ates/Test Report	Lloyd's Register urs	DNV-GL		<u>Miscellaneous</u>		
Further information	wnloadcenter (Catalog	s. Brochures)			

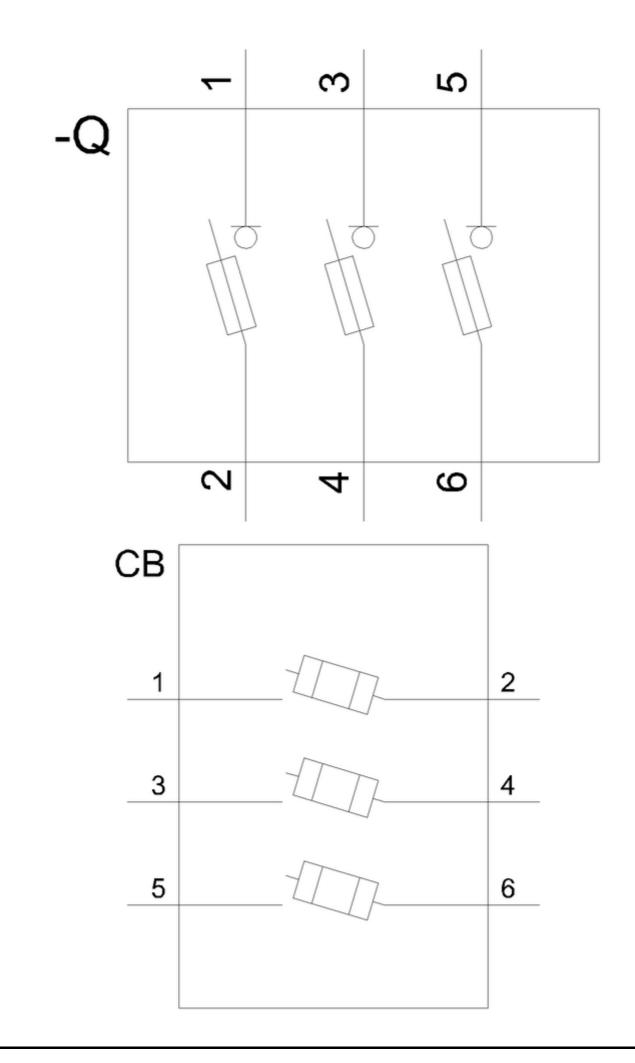
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