



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00,
160A 40MM BUSBAR SYSTEM COVERS FOR RITTAL
BOX TERMINAL FUSE MONITORING
ELECTROMECHANICAL

Model		
product brand name		SENTRON
Product designation		Fuse switch disconnecter
Design of the product		3-pole
Busbar design		busbar thickness 5 or 10 mm
Design of the safety monitoring		electro mechanical
Design of the operating mechanism		handle unit
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		snap on mount on busbar system Rittal 40 mm
Size of disconnecting link		00 and 000
Size of fuse link		NH000, NH00
Continuous current / at 35 °C / Rated value	A	160
Let-through current / with closed switch / maximum permissible	kA	23
cut-off value I²t,max. / 500 V	A ² .s	158 000
I²t value / with closed switch / maximum permissible	kA ² .s	158
Power factor		
• at AC-22 B		0.65
• at AC-23 B		0.45
• with capacitive load		-0.25
circuit-breaker / Design		3NP11
Mechanical service life (switching cycles) / typical		2 000

Fuse system		LV HRC fuse
Voltage		
Insulation voltage / Rated value	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		
<ul style="list-style-type: none"> • with closed switch / with cover or cable lug cover 		IP40
<ul style="list-style-type: none"> • with closed switch / without cover or cable lug cover 		IP30
<ul style="list-style-type: none"> • on the front 		IP40
<ul style="list-style-type: none"> • open 		IP20
Dissipation		
Active power loss		
<ul style="list-style-type: none"> • maximum 	W	12
Electricity		
Continuous current		
<ul style="list-style-type: none"> • Rated value 	A	160
<ul style="list-style-type: none"> • at 40 °C / Rated value 	A	155
<ul style="list-style-type: none"> • at 45 °C / Rated value 	A	145
<ul style="list-style-type: none"> • at 50 °C / Rated value 	A	140
<ul style="list-style-type: none"> • at 55 °C / Rated value 	A	133
Let-through current / with high-speed activation / maximum permissible	kA	15
Let-through current / I_c / maximum permissible		
<ul style="list-style-type: none"> • 400 V 	A	23 000
<ul style="list-style-type: none"> • 500V 	A	23 000
cut-off value I²t_{max.} / 400 V	A ² ·s	158 000
Main circuit		
Operating voltage		
<ul style="list-style-type: none"> • with AC / Rated value / minimum 	V	24
<ul style="list-style-type: none"> • with AC / Rated value / maximum 	V	690
<ul style="list-style-type: none"> • for DC / Rated value 	V	250
<ul style="list-style-type: none"> • for DC / Rated value / minimum 	V	24
<ul style="list-style-type: none"> • for DC / Rated value / maximum 	V	250
Operating current		
<ul style="list-style-type: none"> • at AC-21 B / at 400 V / Rated value 	A	160
<ul style="list-style-type: none"> • at AC-21 B / at 500 V / Rated value 	A	160
<ul style="list-style-type: none"> • at AC-21 B / at 690 V / Rated value 	A	160

• at AC-22 B / at 400 V / Rated value	A	160
• at AC-22 B / at 500 V / Rated value	A	160
• at AC-22 B / at 690 V / Rated value	A	125
• at AC-23 B / at 400 V / Rated value	A	160
• at AC-23 B / at 500 V / Rated value	A	63
• at AC-23 B / at 690 V / Rated value	A	35
• at DC-21 B / at 240 V / Rated value / maximum	A	160
• at DC-21 B / at 440 V / Rated value / maximum	A	160
• at DC-22 B / at 240 V / Rated value / maximum	A	160
• at DC-22 B / at 440 V / Rated value / maximum	A	125
• at DC-23 B / at 240 V / Rated value / maximum	A	100
• at DC-23 B / at 440 V / Rated value / maximum	A	63
• with capacitive load / at 400 V / maximum	A	72
• with capacitive load / at 500 V / maximum	A	55

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 disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Product details

Product feature / interlock	Yes
Product component	
• Trip indicator	Yes
• Phase failure monitoring	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product property / sealable	Yes
Product expansion	
• Auxiliary switch	Yes
• optional	
— locking capability	Yes
— motor drive	No
— Phase failure monitoring	Yes
— Voltage trigger	No

— Overvoltage protection monitoring

Yes

Product function

Product function

- fuse monitoring

Yes

- Overvoltage protection monitoring

No

Short circuit

Conditional short-circuit current (I_q)

- Rated value

kA

80

- with AC / at 500 V / with high-speed activation / Rated value

kA

80

- with AC / at 690 V / with high-speed activation / Rated value

kA

80

- with closed switch / with AC / at 500 V / Rated value

kA

120

- with closed switch / with AC / at 690 V / Rated value

kA

120

Connections

Arrangement of electrical connectors / for main current circuit

other

Connectable conductor cross-section / for main contacts

- single or multi-stranded / minimum

mm²

6

- single or multi-stranded / maximum

mm²

70

- finely stranded / with core end processing / minimum

mm²

6

- finely stranded / with core end processing / maximum

mm²

50

- stranded / minimum

mm²

6

- stranded / maximum

mm²

70

Tightening torque / with screw-type terminals

- minimum

N·m

10

- maximum

N·m

10

Type of connectable conductor cross-section / of the laminated conductors / maximum

9 x 8 mm

Type of electrical connection / for main current circuit

box terminals

Mechanical Design

Height

mm

215.1

Width

mm

105.8

Depth

mm

213.5

mounting position

horizontally or vertically

Mounting type

busbar mounting

Mounting type

• floor mounting		No
• front mounting		No
• front mounting with 4-hole attachment		No
• front mounting with central attachment		No
• rail mounting		Yes
Busbar center-to-center spacing	mm	40

Environmental conditions

Ambient temperature		
• during operation / minimum	°C	-25
• during operation / maximum	°C	55
• during storage / minimum	°C	-50
• during storage / maximum	°C	80

Certificates

Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval



CB



CCC



GOST



UR



UL



Declaration of Conformity	Test Certificates	Shipping Approval		
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EG-Konf.

[Type Test Certificates/Test Report](#)



DNV



GL



LRS

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11331JB21>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3NP11331JB21/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

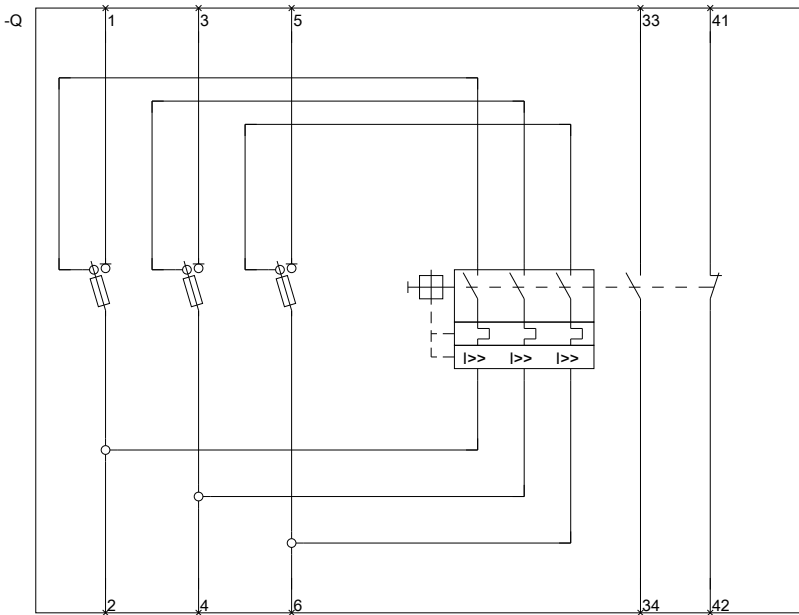
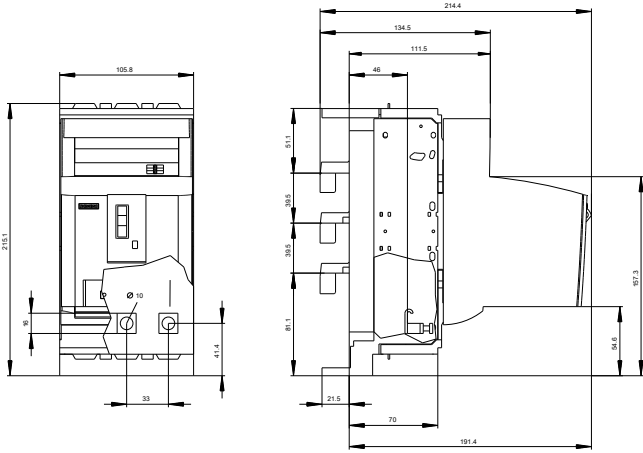
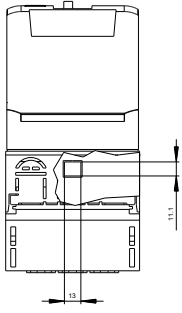
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11331JB21

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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11.03.2015