

FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1, 250A
60MM BUSBAR SYSTEM COVERS FOR RITTAL FLAT
CONNECTOR



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 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 eib Rittal 60 mm
Size of disconnecting link		1 and 0
Size of fuse link		NH0, NH1
Continuous current / at 35 °C / Rated value	A	250
Let-through current / with closed switch / maximum permissible	kA	32
cut-off value $I^{**}2t_{max.}$ / 500 V	A ² .s	780 000
$I2t$ value / with closed switch / maximum permissible	kA ² .s	780
Power factor		

<ul style="list-style-type: none"> • at AC-22 B • at AC-23 B • with capacitive load 		0.65
		0.45
		-0.25
circuit-breaker / Design		3NP11
Mechanical service life (switching cycles) / typical		1 600
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	23

Electricity		
Continuous current		
<ul style="list-style-type: none"> • Rated value 	A	250
<ul style="list-style-type: none"> • at 40 °C / Rated value 	A	245
<ul style="list-style-type: none"> • at 45 °C / Rated value 	A	240
<ul style="list-style-type: none"> • at 50 °C / Rated value 	A	233
<ul style="list-style-type: none"> • at 55 °C / Rated value 	A	233
Let-through current / with high-speed activation / maximum permissible	kA	25
Let-through current / I_c / maximum permissible		
<ul style="list-style-type: none"> • 400 V 	A	32 000
<ul style="list-style-type: none"> • 500V 	A	32 000
cut-off value I²t_{max} / 400 V	A ² ·s	780 000

Main circuit		
Operating voltage		
<ul style="list-style-type: none"> • at AC / Rated value / maximum 	V	690
<ul style="list-style-type: none"> • at DC / Rated value 	V	440
<ul style="list-style-type: none"> • at DC / Rated value / maximum 	V	440
Operating current		
<ul style="list-style-type: none"> • at AC-21 B / at 400 V / Rated value 	A	250

• at AC-21 B / at 500 V / Rated value	A	250
• at AC-21 B / at 690 V / Rated value	A	250
• at AC-22 B / at 400 V / Rated value	A	250
• at AC-22 B / at 500 V / Rated value	A	250
• at AC-22 B / at 690 V / Rated value	A	250
• at AC-23 B / at 400 V / Rated value	A	250
• at AC-23 B / at 500 V / Rated value	A	200
• at AC-23 B / at 690 V / Rated value	A	100
• at DC-21 B / at 240 V / Rated value / maximum	A	250
• at DC-21 B / at 440 V / Rated value / maximum	A	250
• at DC-22 B / at 240 V / Rated value / maximum	A	250
• at DC-22 B / at 440 V / Rated value / maximum	A	200
• at DC-23 B / at 240 V / Rated value / maximum	A	200
• at DC-23 B / at 440 V / Rated value / maximum	A	100
• 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		No
• 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
— 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 (I_q)

• Rated value	kA	80
• at AC / at 500 V / with high-speed activation / Rated value	kA	80
• at AC / at 690 V / with high-speed activation / Rated value	kA	50
• with closed switch / at AC / at 500 V / Rated value	kA	120
• with closed switch / at AC / at 690 V / Rated value	kA	100

Connections

Arrangement of electrical connectors / for main current circuit		other
Connectable conductor cross-section / for main contacts		
• single or multi-stranded / minimum	mm ²	16
• single or multi-stranded / maximum	mm ²	150
• stranded / minimum	mm ²	16
• stranded / maximum	mm ²	150
Tightening torque / with screw-type terminals		
• minimum	N·m	10
• maximum	N·m	12
Type of electrical connection / for main current circuit		flat connector

Mechanical Design

Height	mm	306
Width	mm	183.7
Depth	mm	138
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	60
Net weight	kg	2.85

Environmental conditions

Degree of pollution		3
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	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 EAC	 EG-Konf.	 DNV
		Typprüfbescheinigung/Werkszeugnis	spezielle Prüfbescheinigung <u>n</u>

Shipping Approval



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/3NP11431JC10>

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

<http://support.automation.siemens.com/WW/view/en/3NP11431JC10/all>

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

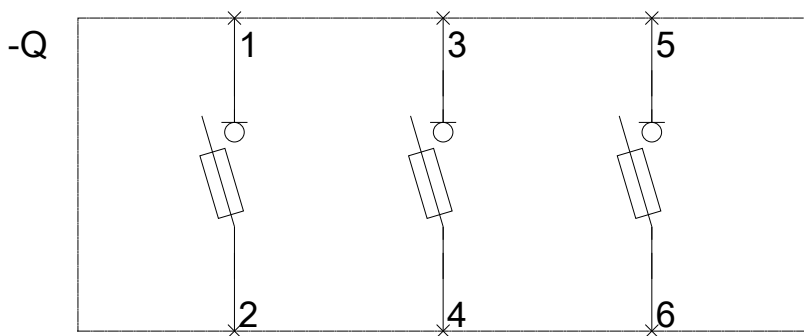
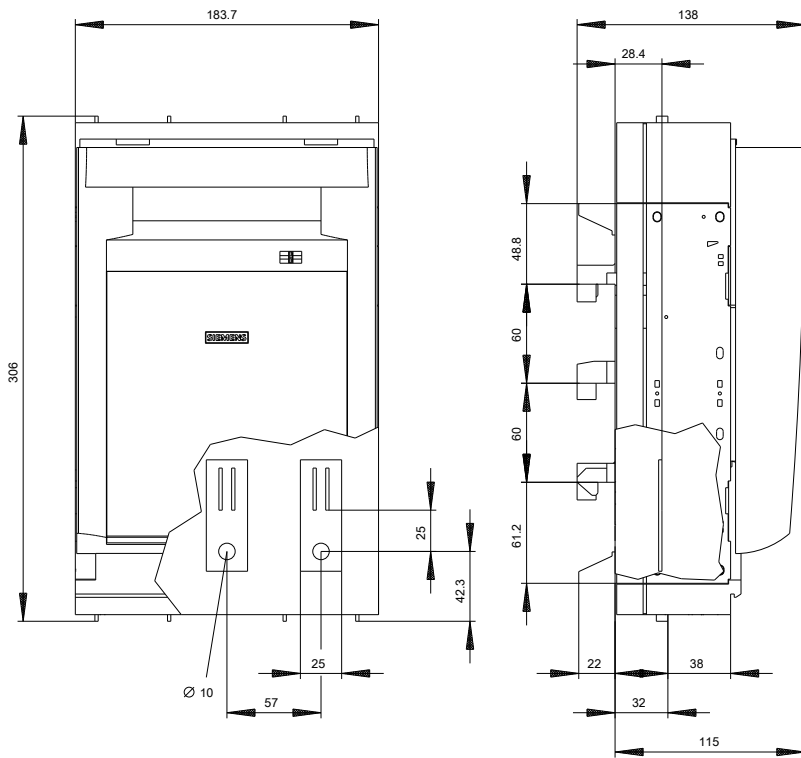
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3NP11431JC10

CAX-Online-Generator

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

Tender specifications

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



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