

SENTRON, fuse switch disconnecter 3NP1, 3-pole, NH3, 630 A, for 60mm 8US busbar system, screw connection, cover level 32/70 mm



Model		
product brand name		SENTRON
Busbar design		busbar thickness 5 or 10 mm
Design of the load switch / Strip form		No
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		3
Size of disconnecting link		3 and 2
Size of fuse link		NH2, NH3
Continuous current / at 35 °C / rated value	A	630
Let-through current / with closed switch / maximum permissible	kA	60
cut-off value I**2t,max. / 500 V	A ² ·s	5 400 000
Power factor		
• at AC-22 B		0.65
• at AC-23 B		0.35
• with capacitive load		-0.25
circuit-breaker / Design		3NP11
Mechanical service life (switching cycles) / typical		1 000

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		
• with closed switch / with cover or cable lug cover		IP40
• with closed switch / without cover or cable lug cover		IP30
• on the front		IP40
• open		IP20
Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	16
• maximum	W	48
Electricity		
Continuous current		
• rated value	A	630
• at 40 °C / rated value	A	610
• at 45 °C / rated value	A	575
• at 50 °C / rated value	A	555
• at 55 °C / rated value	A	530
Let-through current / with high-speed activation / maximum permissible	kA	50
Let-through current / I_c / maximum permissible		
• 400 V	A	60 000
• 500V	A	60 000
cut-off value I²t_{max} / 400 V	A ² ·s	5 400 000
Main circuit		
Operating voltage		
• at AC / rated value / maximum	V	690
• at DC / rated value	V	440
• at DC / rated value / maximum	V	440
Operating current / with capacitive load		
• at 400 V / maximum	A	72
• 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 feature / sealable		Yes
Product extension		
• 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	50
• at AC / at 500 V / with high-speed activation / rated value	kA	50
• at AC / at 690 V / with high-speed activation / rated value	kA	50
• with closed switch / at AC / at 500 V / rated value	kA	100

- 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		
<ul style="list-style-type: none"> • single or multi-stranded / minimum 	mm ²	120
<ul style="list-style-type: none"> • single or multi-stranded / maximum 	mm ²	300
<ul style="list-style-type: none"> • stranded / minimum 	mm ²	120
<ul style="list-style-type: none"> • stranded / maximum 	mm ²	300
Tightening torque / with screw-type terminals		
<ul style="list-style-type: none"> • minimum 	N·m	10
<ul style="list-style-type: none"> • maximum 	N·m	12
Type of electrical connection / for main current circuit		screw-type terminals

Mechanical Design

Height	mm	306
Width	mm	249.4
Depth	mm	160.5
Mounting type		
<ul style="list-style-type: none"> • floor mounting 		No
<ul style="list-style-type: none"> • front mounting 		No
<ul style="list-style-type: none"> • front mounting with 4-hole attachment 		No
<ul style="list-style-type: none"> • front mounting with central attachment 		No
<ul style="list-style-type: none"> • rail mounting 		Yes
Busbar center-to-center spacing	mm	60
Net weight	kg	6.84

Environmental conditions

Degree of pollution		3
Ambient temperature		
<ul style="list-style-type: none"> • during operation / minimum 	°C	-25
<ul style="list-style-type: none"> • during operation / maximum 	°C	55
<ul style="list-style-type: none"> • during storage / minimum 	°C	-50
<ul style="list-style-type: none"> • during storage / maximum 	°C	80

Certificates

Equipment marking		
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 		Q
<ul style="list-style-type: none"> • acc. to DIN EN 81346-2 		Q

General Product Approval	Declaration of Conformity	Test Certificates
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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/3NP11631BC10>

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

<http://support.automation.siemens.com/WW/view/en/3NP11631BC10/all>

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

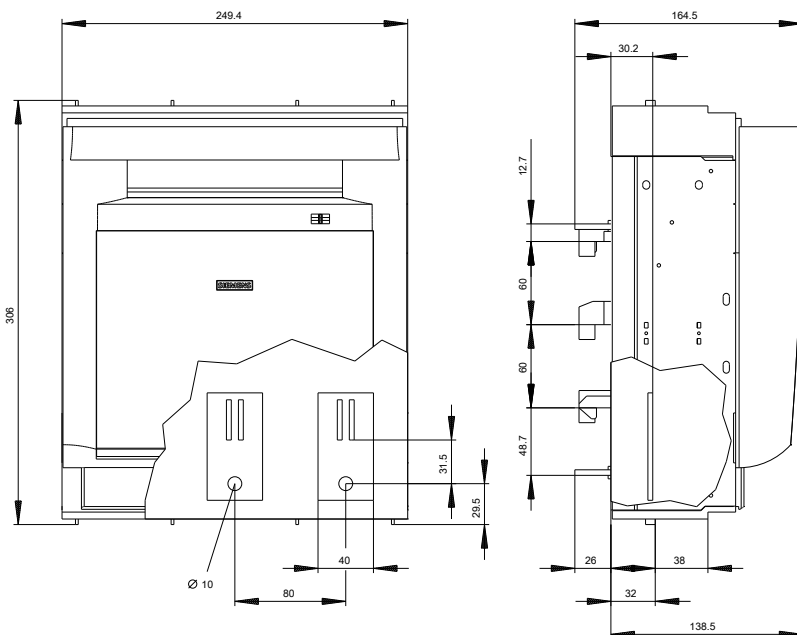
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11631BC10

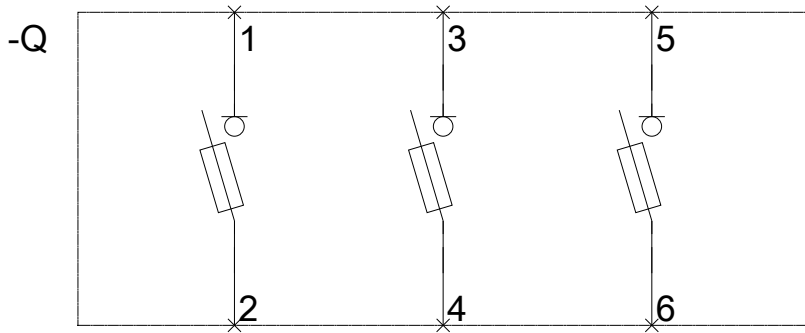
CAX-Online-Generator

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

Tender specifications

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





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