



SETRON, fuse switch disconnecter 3NP1, 4-pole, NH2, 400 A, for 60mm 8US busbar system, box terminal, cover level 32/70 mm cover level 32/70 mm

Model	
product designation	3NP1 fuse switch disconnecter
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	Without
design of the load switch strip form	No
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
type of device	For 60 mm 8US busbar system
size of disconnecting link	2 and 1
size of fuse link	NH1, NH2
let-through current with closed switch maximum	40 kA
mechanical service life (operating cycles) typical	1 000
I ² t value with closed switch maximum	2 150 kA ² .s
power factor	
• at AC-22 B	0.65
• at AC-23 B	0.35
• 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
operational current	
• at 35 °C rated value	400 A
• at 40 °C rated value	400 A
• at 45 °C rated value	392 A
• at 50 °C rated value	372 A
• at 55 °C rated value	356 A
• at AC-21 B at 240 V rated value	400 A
• at AC-21 B at 400 V rated value	400 A
• at AC-21 B at 500 V rated value	400 A
• at AC-21 B at 690 V rated value	400 A
• at AC-22 B at 240 V rated value	400 A
• at AC-22 B at 400 V rated value	400 A
• at AC-22 B at 500 V rated value	400 A

• at AC-22 B at 690 V rated value • at AC-23 B at 690 V rated value • at AC-23 B at 500 V rated value • at AC-23 B at 400 V rated value • at AC-23 B at 240 V rated value • at DC-21 B at 120 V rated value • at DC-21 B at 240 V rated value • at DC-21 B at 440 V rated value • at DC-22 B at 120 V rated value • at DC-22 B at 240 V rated value • at DC-22 B at 440 V rated value • at DC-23 B at 120 V rated value • at DC-23 B at 240 V rated value • at DC-23 B at 440 V rated value	400 A 125 A 315 A 400 A 400 A 400 A 400 A 400 A 400 A 400 A 315 A 250 A 250 A 160 A
let-through current with high-speed activation maximum permissible	40 kA
operating voltage • at AC rated value maximum • at DC rated value • at DC rated value maximum	690 V 440 V 440 V
Protection class	
protection class IP • with closed switch with cover or cable lug cover • with closed switch without cover or cable lug cover • open	IP40 IP30 IP20
Dissipation	
power loss [W] • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per device • for rated value of the current at AC in hot operating state per pole • of the fuse per fuse maximum	14 W 56 W 48 W 34 W
Main circuit	
operational current • rated value • with capacitive load at 400 V rated value • with capacitive load at 500 V rated value	400 A 72 A 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 • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch	No Yes No Yes Yes
Product details	
product component • undervoltage release • undervoltage release with leading contact	No No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional • locking capability • phase failure monitoring • fuse monitoring • voltage trigger • overvoltage protection monitoring	Yes Yes Yes No Yes

Product function	
product function overvoltage protection monitoring	No
Connections	
arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
• solid or stranded minimum	120 mm²
• solid or stranded maximum	300 mm²
• finely stranded with core end processing minimum	120 mm²
• finely stranded with core end processing maximum	240 mm²
• stranded minimum	120 mm²
• stranded maximum	300 mm²
tightening torque with screw-type terminals	
• minimum	25 N·m
• maximum	25 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	32 x 10 mm
type of connection technology	Box terminal
Mechanical Design	
height	306 mm
width	289 mm
width of the busbar	
• minimum	12 mm
• maximum	30 mm
depth	157 mm
fastening method	busbar
fastening method	
• floor mounting	No
• rail mounting	Yes
mounting position	horizontal/vertical
busbar center-to-center spacing	60 mm
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C
Certificates	
reference code according to IEC 81346-2	Q
Approvals Certificates	
General Product Approval	

[Confirmation](#)



[Miscellaneous](#)



Test Certificates	Marine / Shipping	other	Environment
Special Test Certificate Type Test Certificates/Test Report		Confirmation	Miscellaneous EPD Typ II

Environment

[Environmental Confirmations](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3NP1154-1BC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1154-1BC20>

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

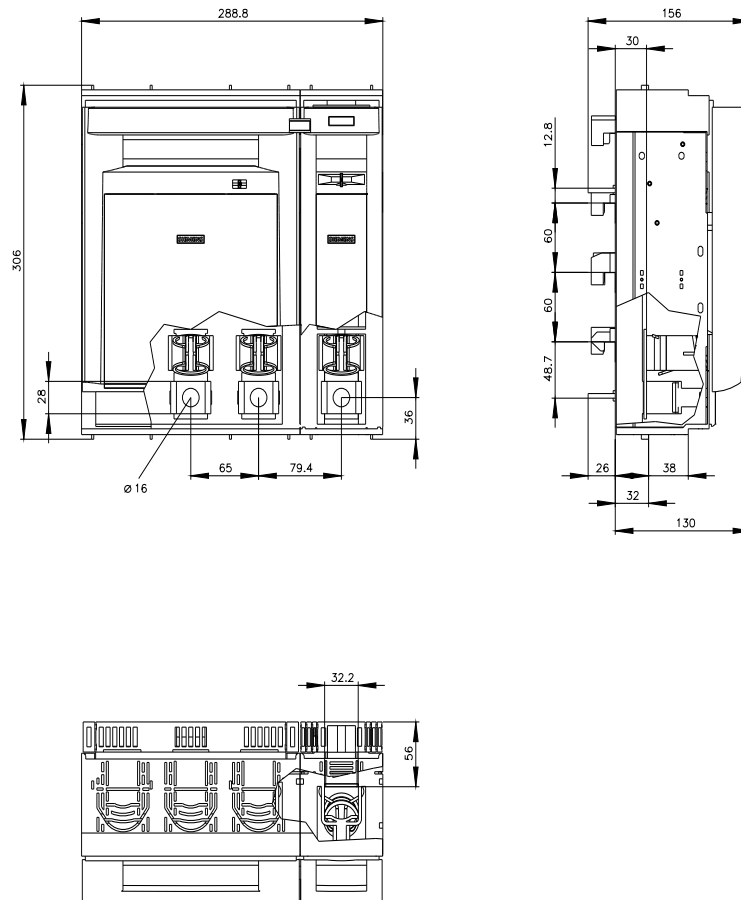
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1154-1BC20

CAX-Online-Generator

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

Tender specifications

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



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