SIEMENS

Data sheet

3NP1124-1CA20

SENTRON, fuse switch disconnector 3NP1, 4-pole, NH000, 160 A, for assembly and installation on mounting plate, box terminal, cover level 45 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 operating mechanism	Cover handle	
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 assembly and installation on mounting plate	
Size of disconnecting link	0	
Size of fuse link	NH000	
Continuous current / at 35 °C / rated value	160 A	
Let-through current / with closed switch / maximum permissible	15 kA	
cut-off value I**2t,max. / 500 V	56 000 A²·s	
Power factor		
• at AC-22 B	0.65	

● at AC-23 B	0.35
circuit-breaker / Design	3NP11
Mechanical service life (switching cycles) / typical	2 000
Fuse system	LV HRC fuse
Voltage	
Insulation voltage / rated value	690 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV
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
Electricity	
Continuous current	
• rated value	100 A
• at 40 °C / rated value	150 A
• at 45 °C / rated value	140 A
• at 50 °C / rated value	130 A
• at 55 °C / rated value	120 A
Let-through current / with high-speed activation / maximum permissible	10 kA
Let-through current / Ic / maximum permissible	
• 400 V	15 000 A
• 500V	15 000 A
cut-off value I**2t,max. / 400 V	56 000 A²·s
Main circuit	
Operating voltage	
 at AC / rated value / maximum 	690 V
• at DC / rated value	440 V
• at DC / rated value / maximum	440 V
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 disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
	Yes
 maintenance/repair switch 	165
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 (Iq)	
• 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 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	other
current circuit	

Or any stable and destant and static of farmering		
Connectable conductor cross-section / for main contacts		
 single or multi-stranded / minimum 	1.5 mm ²	
 single or multi-stranded / maximum 	50 mm²	
 finely stranded / with core end processing / minimum 	1.5 mm ²	
 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	8 x 8 mm	
laminated conductors / maximum		
Type of electrical connection / for main current circuit	box terminal	
Mechanical Design		
Height	141.7 mm	
Width	127.6 mm	
Depth	74.1 mm	
Mounting position	horizontal/vertical	
Mounting type	mounting plate	
Mounting type		
 floor mounting 	No	
 front mounting 	No	
 front mounting with 4-hole attachment 	No	
 front mounting with central attachment 	No	
• rail mounting	No	
Net weight	0.71 kg	
Environmental conditions		
Degree of pollution	3	
Ambient temperature		
 during operation / minimum 	-25 °C	
 during operation / maximum 	55 °C	
 during storage / minimum 	-50 °C	
 during storage / maximum 	80 °C	
Certificates		
Reference code		
• acc. to DIN EN 61346-2	Q	
• acc. to DIN EN 81346-2	Q	

General Product A	pproval	Declaration of Con- formity	Test Certificates
	Miscellaneous	EG-Konf.	Type Test Certificates/Test Report

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=3NP1124-1CA20

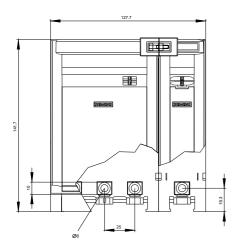
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1124-1CA20

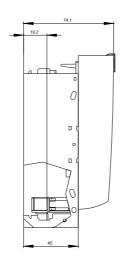
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1124-1CA20

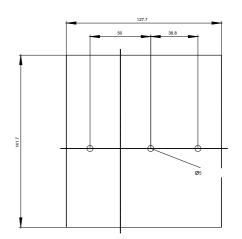
CAx-Online-Generator http://www.siemens.com/cax

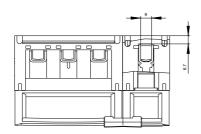
Tender specifications

http://www.siemens.com/specifications









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