SIEMENS

Data sheet

3NP1143-1DA12



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1, 250A MOUNTING PLATE CONSTRUCTION COVER LEVEL 70 MM FLAT CONNECTOR FUSE MONITORING ELECTRONIC, EFM 10

Model	
product brand name	SENTRON
Product designation	Fuse switch disconnector
Design of the product	3-pole
Design of the safety monitoring	electronic EFM 10
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		Construction and installation	
Size of disconnecting link		1 and 0	
Size of fuse link		NH0, NH1	
Continuous current / at 35 °C / Rated value	А	250	
Let-through current / with closed switch / maximum permissible	kA	32	
cut-off value I**2t,max. / 500 V	A²·s	780 000	
I2t value / with closed switch / maximum permissible	kA2.s	780	
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		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		
 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		
Active power loss		
• maximum	W	23
Electricity		
Continuous current		
Rated value	А	250
• at 40 °C / Rated value	А	245
● at 45 °C / Rated value	А	240
• at 50 °C / Rated value	А	233
• at 55 °C / Rated value	А	233
Let-through current / with high-speed activation / maximum permissible	kA	25
Let-through current / Ic / maximum permissible		
• 400 V	А	32 000
• 500V	А	32 000
cut-off value I**2t,max. / 400 V	A²·s	780 000
Main circuit		
Operating voltage		
 with AC / Rated value / minimum 	V	230
 with AC / Rated value / maximum 	V	690
Operating current		
• at AC-21 B / at 400 V / Rated value	А	250
• at AC-21 B / at 500 V / Rated value	А	250
• at AC-21 B / at 690 V / Rated value	А	250
• at AC-22 B / at 400 V / Rated value	А	250
• at AC-22 B / at 500 V / Rated value	А	250
• at AC-22 B / at 690 V / Rated value	А	250
• at AC-23 B / at 400 V / Rated value	А	250
• at AC-23 B / at 500 V / Rated value	А	200

• at AC-23 B / at 690 V / Rated value	А	100
	A	72
• with capacitive load / at 400 V / maximum		
 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 disconnector 		Yes
EMERGENCY OFF switch		No
 safety switch 		Yes
maintenance/repair switch		Yes
Product details		
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 (Iq)		
Rated value	kA	80
with AC / at 500 V / with high-speed activation / Dated value	kA	80
Rated value		

 with AC / at 690 V / with high-speed activation / Rated value 	kA	50
 with closed switch / with AC / at 500 V / Rated value 	kA	120
• with closed switch / with 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 	mm²	16
 single or multi-stranded / maximum 	mm²	150
• stranded / minimum	mm²	16
• stranded / maximum	mm²	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

eight	mm	306	
Vidth	mm	183.7	
Depth	mm	146.3	
mounting position		horizontally or vertically	
Mounting type	_	floor mounting	
Mounting type			
 floor mounting 		Yes	
• front mounting		No	
 front mounting with 4-hole attachment 		No	
 front mounting with central attachment 		No	
• rail mounting		No	
nvironmental conditions			
Ambient temperature			
 during operation / minimum 	°C	-25	
 during operation / maximum 	°C	55	
 during storage / minimum 	°C	-50	
 during storage / maximum 	°C	80	
ertificates			
Equipment marking			
• acc. to DIN EN 61346-2		Q	
• acc. to DIN EN 81346-2		Q	

General Produ	ict Approval				Declaration of Conformity		
	GOST		UR	EAC	EG-Konf.		
Test Certificates	Shipping App	Shipping Approval					
Type Test							

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/3NP11431DA12

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11431DA12/all

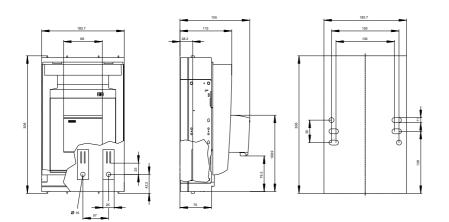
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11431DA12

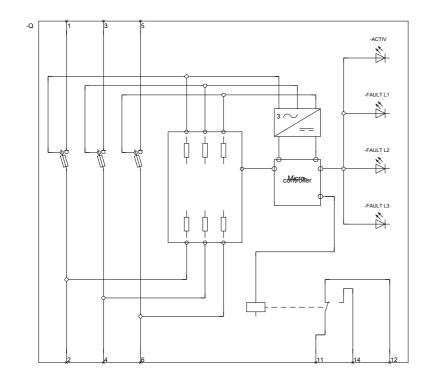
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





last modified:

11.03.2015