SIEMENS

Product data sheet 3NP1143-1DA23

Number of poles



3

FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1, 250A MOUNTING PLATE CONSTRUCTION COVER LEVEL 70 MM BOX TERMINAL FUSE MONITORING ELECTRONIC, EFM 20

Similar to image

General technical details:			
product brand name	SENTRON		
Product designation	Fuse switch disconnector		
Fuse system	LV HRC fuse		
Installation size of fuse-link	NH0, NH1		
Installation size of disconnecting link	1 and 0		
Type from device	Auf- und Einbau		
Design of the product	3-pole		
Design of the operating mechanism	handle unit		
Type of the driving mechanism / motor drive	No		
Design of the safety monitoring	elektronisch EFM20		
Number of NC contacts / for auxiliary contacts	0		
Number of NO contacts / for auxiliary contacts	0		
Number of changeover contacts / for auxiliary contacts	0		
Design of the load switch / Strip form	No		
Product equipment / interlock	Yes		
Product feature / sealable	Yes		
Product component			

phase failure monitoring		Yes
undervoltage release mechanism		No
undervoltage release with leading contact		No
trip indicator		Yes
Acceptability for application		
switch disconnector		Yes
emergency stop switch		No
main switch		No
safety cut-out switch		Yes
maintenance/repair switch		Yes
Product function		
fuse monitoring		Yes
overvoltage protection monitoring		Yes
Product extension		
auxiliary switch		Yes
• optional		
voltage trigger		No
 locking capability 		Yes
motor drive		No
Continuous current		
• rated value	Α	250
• at 35 °C / rated value	Α	250
• at 40 °C / rated value	Α	245
• at 45 °C / rated value	Α	240
• at 50 °C / rated value	Α	233
• at 55 °C / rated value	Α	233
Operating current		
• at AC-21 B		
• at 400 V / rated value	Α	250
• at 500 V / rated value	Α	250
• at 690 V / rated value	Α	250
• at AC-22 B		
• at 400 V / rated value	Α	250
• at 500 V / rated value	Α	250
• at 690 V / rated value	Α	250
• at AC-23 B		
• at 400 V / rated value	Α	250
• at 500 V / rated value	Α	200
• at 690 V / rated value	Α	100
with capacitive load		

Let-through current · with speedy activation / maximum permissible · with closed switch / maximum permissible · with closed switch / maximum permissible · at 500 V / with AC / with speedy activation / rated value · at 500 V / with AC / with speedy activation / rated value · at 500 V / with AC / with speedy activation / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at 690 V / with AC / rated value · at AC-21 B · at AC-22 B · at AC-23 B · with capacitive load Active power loss / maximum w	• at 400 V / maximum	Α	72
with speedy activation / maximum permissible with closed switch / maximum permissible with closed switch / maximum permissible rated value rated value at 500 V / with AC / with speedy activation / rated value at 690 V / with AC / with speedy activation / rated value with closed switch at 500 V / with AC / rated value at 690 V / with AC / rated value vat 690 V / with AC / rated value vat 690 V / with AC / rated value vat 690 V / with AC / rated value vat 690 V / with AC / rated value vat 690 V / with AC / rated value vat 690 V / with AC / rated value vat AC -21 B at AC -22 B at AC -22 B at AC -23 B with capacitive load with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Izt value / with closed switch / maximum permissible kA²-s 780 Item designation according to DIN EN 61346-2	• at 500 V / maximum	Α	55
 with closed switch / maximum permissible kA 32 Conditional short-circuit current (Iq) rated value at 500 V / with AC / with speedy activation / rated value at 690 V / with AC / with speedy activation / rated value with closed switch at 500 V / with AC / rated value kA 120 at 690 V / with AC / rated value kA 100 Tension d'emploi for AC / rated value v 230 690 Power factor at AC-21 B at AC-22 B at AC-23 B ode5 at AC-23 B with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value kA 2. Ex value / with closed switch / maximum permissible kA²-s 780 Item designation according to DIN EN 61346-2 	Let-through current		
Conditional short-circuit current (Iq) • rated value • at 500 V / with AC / with speedy activation / rated value • at 690 V / with AC / with speedy activation / rated value • with closed switch • at 500 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at AC / rated value • for AC / rated value • v 230 690 Power factor • at AC -21 B • at AC -22 B • at AC -22 B • at AC -23 B • with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kA 80 **AC -25 ** **Continue of the continue	with speedy activation / maximum permissible	kA	25
rated value at 500 V / with AC / with speedy activation / rated value at 690 V / with AC / with speedy activation / rated value with closed switch at 500 V / with AC / rated value at 690 V / with AC / rated value at 690 V / with AC / rated value at 690 V / with AC / rated value vat 690 V / with AC / rated value vat AC / rated value V 230 690 Power factor at AC -21 B at AC -22 B at AC -23 B with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 8 Izt value / with closed switch / maximum permissible kA ² -s Item designation according to DIN EN 61346-2 Red Red Red Red Red Red Red Re	with closed switch / maximum permissible	kA	32
• at 500 V / with AC / with speedy activation / rated value • at 690 V / with AC / with speedy activation / rated value • with closed switch • at 500 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value * A 100 Tension d'emploi • for AC / rated value • V 230 690 Power factor • at AC-21 B • at AC-22 B • at AC-22 B • at AC-23 B • with capacitive load • with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kA 50 * 8 Item designation • according to DIN EN 61346-2 Active power loss of DIN EN 61346-2 Q	Conditional short-circuit current (Iq)		
 at 690 V / with AC / with speedy activation / rated value with closed switch at 500 V / with AC / rated value kA 120 at 690 V / with AC / rated value kA 100 Tension d'emploi for AC / rated value V 230 690 Power factor at AC-21 B at AC-22 B at AC-22 B with capacitive load with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Item designation according to DIN EN 61346-2 Q	rated value	kA	80
• with closed switch kA 120 • at 690 V / with AC / rated value kA 100 Tension d'emploi • for AC / rated value V 230 690 Power factor • at AC-21 B 0.95 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Izt value / with closed switch / maximum permissible kA²-s 780 Item designation - according to DIN EN 61346-2 Q	• at 500 V / with AC / with speedy activation / rated value	kA	80
• at 500 V / with AC / rated value kA 120 • at 690 V / with AC / rated value kA 100 Tension d'emploi • for AC / rated value V 230 690 Power factor • at AC-21 B 0.95 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Izt value / with closed switch / maximum permissible kA2-s 780 Item designation - according to DIN EN 61346-2 Q	• at 690 V / with AC / with speedy activation / rated value	kA	50
• at 690 V / with AC / rated value kA 100 Tension d'emploi V 230 690 • for AC / rated value V 230 690 Power factor 0.95 • at AC-21 B 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load W 23 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Izt value / with closed switch / maximum permissible kA²-s 780 Item designation Q • according to DIN EN 61346-2 Q	with closed switch		
Tension d'emploi V 230 690 Power factor 690 • at AC-21 B 0.95 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²-s 780 Item designation Q Q	• at 500 V / with AC / rated value	kA	120
• for AC / rated value V 230 690 Power factor • at AC-21 B 0.95 • at AC-22 B 0.65 • with capacitive load -0.25 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²-s 780 Item designation Q	• at 690 V / with AC / rated value	kA	100
Power factor	Tension d'emploi		
 at AC-21 B at AC-22 B at AC-23 B with capacitive load -0.25 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 780 Item designation according to DIN EN 61346-2 Q 	• for AC / rated value	V	230 690
 at AC-22 B at AC-23 B with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 780 Item designation according to DIN EN 61346-2 Q 	Power factor		
 at AC-23 B with capacitive load -0.25 Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 780 Item designation according to DIN EN 61346-2 Q 	• at AC-21 B		0.95
 with capacitive load Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 780 Item designation according to DIN EN 61346-2 Q 	• at AC-22 B		0.65
Active power loss / maximum W 23 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²-s 780 Item designation • according to DIN EN 61346-2 Q	• at AC-23 B		0.45
Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 780 Item designation • according to DIN EN 61346-2 Q	with capacitive load		-0.25
Impulse voltage resistance / rated value	Active power loss / maximum	W	23
I2t value / with closed switch / maximum permissible kA²-s 780	Insulation voltage / rated value	V	690
Item designation • according to DIN EN 61346-2 Q	Impulse voltage resistance / rated value	kV	8
• according to DIN EN 61346-2 Q	I2t value / with closed switch / maximum permissible	kA ² ·s	780
	Item designation		
• according to DIN EN 81346-2 Q	according to DIN EN 61346-2		Q
	according to DIN EN 81346-2		Q

Connection elements and terminals:				
Design of the electrical connection / for main current circuit		box terminals		
Conductor cross section that can be connected / for main contacts				
single- or multi-stranded	mm²	70 185		
• stranded	mm²	70 185		
Type of connectable conductor cross-sections / of laminated conductors				
• maximum		10 x 20 mm		
Tightening torque				
with screw-type terminals	N·m	10 10		
Arrangement of electrical connectors / for main current circuit		sonstige		

Degree of protection and safety class:	
IP degree of protection	

• open	IP20
• on the front	IP40
with closed switch	
without cover or cable lug cover	IP30
with cover or cable lug cover	IP40
Degree of pollution	3
Mechanical operating cycles as operating time / typical	1,600

Ambient conditions:				
Ambient temperature				
during operating	°C	-25 +55		
during storage	°C	-50 + 80		

Installation/mounting/dimensions:			
Mounting type		floor mounting	
rail mounting		No	
front mounting		No	
front mounting with central attachment		No	
front mounting with 4-hole attachment		No	
floor mounting		Yes	
mounting position		waagerecht oder senkrecht	
Width	mm	183.7	
Height	mm	306	
Depth	mm	146.3	
Net weight	kg	2.33	

Certificates/approvals:

General Product A	Approval			Declaration of Conformity	Test Certificates
(W)	P	(UL)	A1 °	C€	Type Test Certificates/Test Report

UR

EG-Konf.

Shipping Approval



ccc



GOST





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/3NP1143-1DA23

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

http://support.automation.siemens.com/WW/view/en/3NP1143-1DA23/all

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

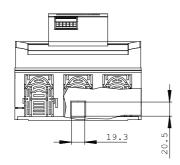
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1143-1DA23

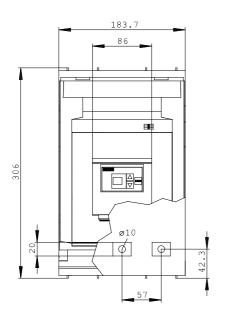
CAx-Online-Generator

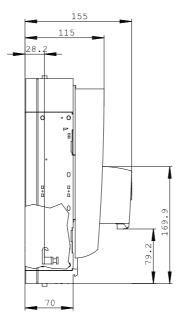
http://www.siemens.com/cax

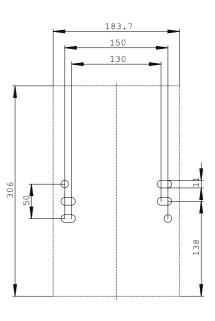
Tender specifications

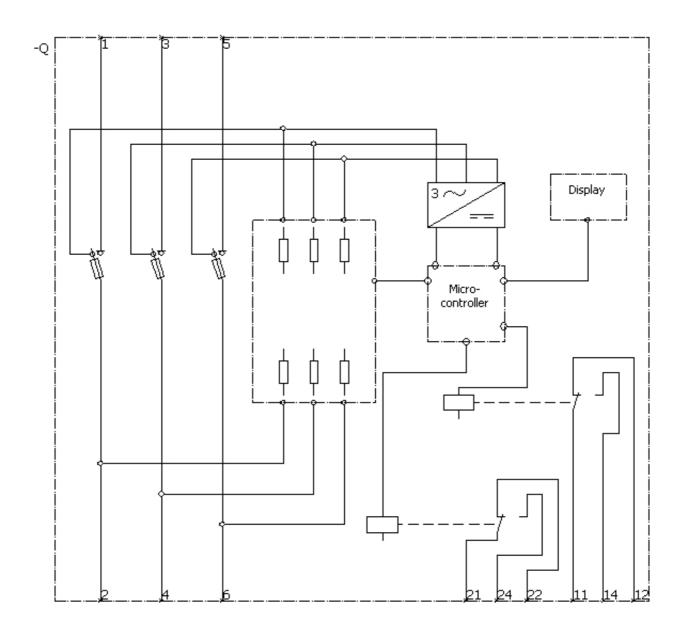
Datanorm GAEB81 GAEB83 RTF TXT











last change: Mar 17, 2014