SIEMENS

Product data sheet 3NP1133-1CA23

Number of poles



3

FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A MOUNTING PLATE CONSTRUCTION COVER LEVEL 45 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	NH000, NH00	
Installation size of disconnecting link	00 and 000	
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	160
• at 35 °C / rated value	Α	160
• at 40 °C / rated value	Α	155
• at 45 °C / rated value	Α	145
• at 50 °C / rated value	Α	140
• at 55 °C / rated value	Α	133
Operating current		
• at AC-21 B		
• at 400 V / rated value	Α	160
• at 500 V / rated value	Α	160
• at 690 V / rated value	Α	160
• at AC-22 B		
• at 400 V / rated value	Α	160
• at 500 V / rated value	Α	160
• at 690 V / rated value	Α	125
• at AC-23 B		
• at 400 V / rated value	Α	160
• at 500 V / rated value	Α	63
• at 690 V / rated value	Α	35
with capacitive load		

Let-through current with speedy activation / maximum permissible with closed switch / maximum permissible rated value rated value rated value rated value rates 500 V / with AC / with speedy activation / rated value rates 500 V / with AC / with speedy activation / rated value rates 500 V / with AC / with speedy activation / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 500 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with AC / rated value rates 600 V / with capacitive load rates 60	• at 400 V / maximum	Α	72
with speedy activation / maximum permissible with closed switch / maximum permissible with closed switch / maximum permissible in rated value in rated value in at 500 V / with AC / with speedy activation / rated value in at 690 V / with AC / with speedy activation / rated value in at 690 V / with AC / rated value in at 690 V / with AC / rated value in at 690 V / with AC / rated value in at 690 V / with AC / rated value in at 690 V / with AC / rated value in at AC -21 B in at AC -22 B in at AC -23 B in with capacitive load in with capacitive lo	• at 500 V / maximum	Α	55
 with closed switch / maximum permissible kA 23 Conditional short-circuit current (Iq) rated value at 500 V / with AC / with speedy activation / rated value kA 80 at 690 V / with AC / with speedy activation / rated value kA 80 with closed switch at 500 V / with AC / rated value kA 120 tat 690 V / with AC / rated value kA 120 Tension d'emploi for AC / rated value V 230 690 Power factor at AC-21 B at AC-22 B o. 65 at AC-23 B with capacitive load Active power loss / maximum W 12 Insulation voltage / rated value kV 8 Izt value / with closed switch / maximum permissible kA²-s 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 • 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 • to 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 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kA 80 • vith closed switch / maximum permissible • kA²-s Item designation • according to DIN EN 61346-2	with speedy activation / maximum permissible	kA	15
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 Tension d'emploi for 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 12 Insulation voltage resistance / rated value kA 80 80 80 80 80 80 80 80 80 80	with closed switch / maximum permissible	kA	23
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 kA 120 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 at AC-23 B at AC-23 B at AC-25 B at AC-25 B at AC-25 B at AC-26 B at AC-27 B at AC-28 B at AC-29 B at AC-29 B at AC-29 B at AC-20	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 tat 690 V / with AC / rated value kA 120 Tension d'emploi for 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 12 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 120 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 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Izt value / with closed switch / maximum permissible kA²-s 158 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 120 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 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 Izt value / with closed switch / maximum permissible kA2-s 158 Item designation - according to DIN EN 61346-2 Q	• at 690 V / with AC / with speedy activation / rated value	kA	80
• at 690 V / with AC / rated value RA 120 Tension d'emploi • for 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 12 Insulation voltage / rated value Inpulse voltage resistance / rated value RV 8 Item designation • according to DIN EN 61346-2 RO 230 690 V 230 690 V 230 690 V 290 0.95 0.65 0.45 0.45 0.25 V 690 RV 8 Item designation • according to DIN EN 61346-2	with closed switch		
Tension d'emploi 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 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²-s 158 Item designation .according to DIN EN 61346-2 Q	at 500 V / with AC / rated value	kA	120
• for AC / rated value V 230 690 Power factor	• at 690 V / with AC / rated value	kA	120
Power factor • at AC-21 B • at AC-22 B • at AC-23 B • with capacitive load Active power loss / maximum W 12 Insulation voltage / rated value Impulse voltage resistance / rated value It value / with closed switch / maximum permissible • according to DIN EN 61346-2	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 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 158 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 -0.25 Active power loss / maximum W 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 12t value / with closed switch / maximum permissible kA²·s 158 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 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²-s 158 Item designation according to DIN EN 61346-2 Q 	• at AC-21 B		0.95
 with capacitive load Active power loss / maximum W Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV I2t value / with closed switch / maximum permissible kA²·s I58 Item designation according to DIN EN 61346-2 Q 	• at AC-22 B		0.65
Active power loss / maximum W 12 Insulation voltage / rated value V 690 Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²-s 158 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 158 Item designation • according to DIN EN 61346-2 Q	with capacitive load		-0.25
Impulse voltage resistance / rated value kV 8 I2t value / with closed switch / maximum permissible kA²·s 158 Item designation • according to DIN EN 61346-2 Q	Active power loss / maximum	W	12
I2t value / with closed switch / maximum permissible kA²-s 158 Item designation • according to DIN EN 61346-2 Q	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	l2t value / with closed switch / maximum permissible	kA ² ·s	158
	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	6 70
• stranded	mm²	6 70
stranded wire / with conductor end processing	mm²	6 50
Type of connectable conductor cross-sections / of laminated conductors		
• maximum		9 x 8 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	2,000

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	105.8
Height	mm	202
Depth	mm	126.2
Net weight	kg	0.87

Certificates/approvals:

General Product Approval

Declaration of Conformity













Test Certificates

Shipping Approval

Type Test
Certificates/Test
Report





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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/3NP1133-1CA23

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

http://support.automation.siemens.com/WW/view/en/3NP1133-1CA23/all

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

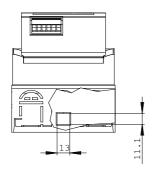
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1CA23

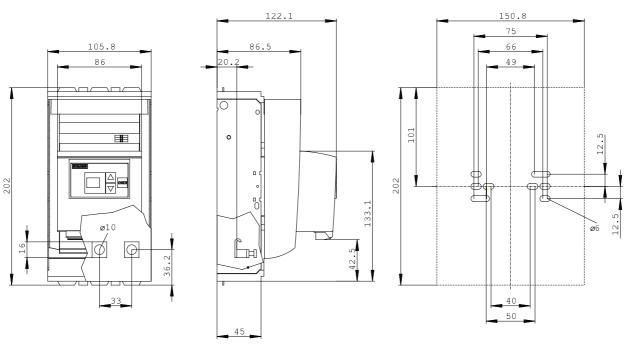
CAx-Online-Generator

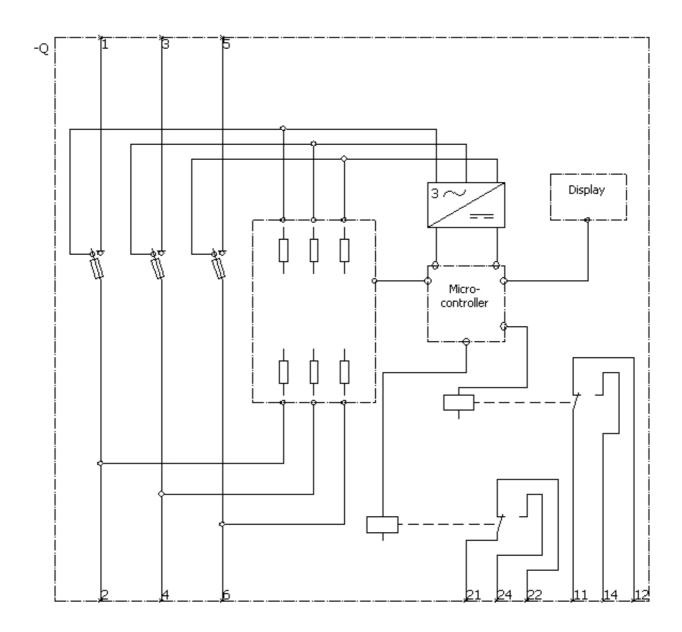
http://www.siemens.com/cax

Tender specifications

Datanorm GAEB81 GAEB83 RTF TXT







last change: Mar 31, 2014