SIEMENS

Data sheet 3NP1163-1DA12

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH3, 630 A, for assembly and installation on mounting plate, flat terminal, Fuse monitoring: electronic EFM10, Cover level 70 mm



Model	
Product brand name	SENTRON
Product designation	3NP1 fuse switch disconnector
Design of the product	cover level 70 mm
Design of the safety monitoring	electronic EFM 10
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	3
Type of device	For assembly and installation on mounting plate
Size of disconnecting link	3 and 2
Size of fuse link	NH2, NH3
Continuous current / at 35 °C / rated value	630 A
Let-through current / with closed switch / maximum permissible	60 kA
cut-off value I**2t,max. / 500 V	5 400 000 A ² ·s
Power factor	
● at AC-22 B	0.65

• at AC-23 B	0.35
with capacitive load	-0.25
circuit-breaker / Design	3NP11
Mechanical service life (switching cycles) / typical	1 000
Fuse system	LV HRC fuse
Valle	
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	IP40
cover	
 with closed switch / without cover or cable lug 	IP30
cover	
• on the front	IP40
• open	IP20
Electricity	
Continuous current	
• rated value	630 A
• at 40 °C / rated value	610 A
• at 45 °C / rated value	575 A
• at 50 °C / rated value	555 A
• at 55 °C / rated value	530 A
Let-through current / with high-speed activation / maximum permissible	50 kA
Let-through current / Ic / maximum permissible	
• 400 V	60 000 A
• 500V	60 000 A
cut-off value I**2t,max. / 400 V	5 400 000 A²·s
Main circuit	
Operating voltage	
• at AC / rated value / minimum	230 V
• at AC / rated value / maximum	690 V
Operating current / with capacitive load	
• at 400 V / maximum	72 A
• at 500 V / maximum	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

Sulfability for use • Main switch • Main switch • Switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • maintenance/repair switch Product deatis Product deatis Product deatine / interlock Product component • Trip indicator • Phase failure monitoring • No • undervoltage release • undervoltage release with leading contact No Product extension • Auxiliary switch • optional — locking capability — motor drive — Phase failure monitoring — Ves — Voltage trigger — Voltage trigger — Overvoltage protection monitoring Product function • fuse monitoring • (See Trip of the Component of the Compone	Suitability		
Switch disconnector EMERGENCY OFF switch Safety switch Safety switch Product feature / interlock Product feature / sealable Product feature / sealable Product feature / sealable Product teature / sealable Product extension Auxiliary switch Phase failure monitoring Phase failure monitoring Ves Potentiary switch Phase failure monitoring Ves Potentiary switch Phase failure monitoring Ves Product fruction Product function Product function Product function Product function Short circuit Conditional short-circuit current (Iq) 1 arated value 1 at AC / at 500 V / with high-speed activation / rated value 1 at AC / at 500 V / with high-speed activation / rated value 1 with closed switch / at AC / at 590 V / rated value 2 with closed switch / at AC / at 690 V / rated value 3 with closed switch / at AC / at 690 V / rated value 4 with closed switch / at AC / at 690 V / rated value 5 with closed switch / at AC / at 690 V / rated value 4 with closed switch / at AC / at 690 V / rated value 5 with closed switch / at AC / at 690 V / rated value 6 with closed switch / at AC / at 690 V / rated value 100 kA Arrangement of electrical connectors / for main other	Suitability for use		
EMERGENCY OFF switch safety switch safety switch maintenance/repair switch Yes Product destails Product feature / interlock Product component Trip indicator Phase failure monitoring No undervoltage release with leading contact Product feature / sealable Product eature / sealable Product feature / sealable Product feature / sealable Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive No Phase failure monitoring Ves Votage trigger Votage trigger Overvoltage protection monitoring Product function Froduct function fuse monitoring ves vervoltage protection monitoring Product function fuse monitoring ves vervoltage protection monitoring Ves value value at AC / at 500 V / with high-speed activation / rated value at AC / at 690 V / with high-speed activation / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value	Main switch	No	
* safety switch * maintenance/repair switch Yes Product details Product feature / interlock Product component * Trip indicator * Phase failure monitoring * undervoltage release * undervoltage release with leading contact Product feature / sealable Product extension * Auxiliary switch * optional	 switch disconnector 	Yes	
• maintenance/repair switch Product details Product feature / interlock Product reature / interlock Product component • Trip indicator • Phase failure monitoring • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — woltage trigger — Voltage trigger — Voltage trigger — Overvoltage protection monitoring Product function Product function • fuse monitoring • fuse monitoring • overvoltage protection monitoring Product function • fuse monitoring • at AC / at 500 V / with high-speed activation / rated value • at AC / at 500 V / with high-speed activation / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value	 EMERGENCY OFF switch 	No	
Product details Product feature / interlock Product component • Trip indicator • Phase failure monitoring • undervoltage release • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — Phase failure monitoring — Voltage trigger — Overvoltage protection monitoring Product function Product function Product function Product function Short circuit • at AC / at 500 V / with high-speed activation / rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 500 V / with high-speed activation / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value	• safety switch	Yes	
Product feature / interlock Product component Trip indicator Phase failure monitoring undervoltage release undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch optional — locking capability — motor drive — Phase failure monitoring — Voltage trigger — Voltage trigger — Voltage protection monitoring Product function Product function Product function Product function Short circuit Conditional short-circuit current (lq) at AC / at 500 V / with high-speed activation / rated value at AC / at 690 V / with high-speed activation / stated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value owith closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other	maintenance/repair switch	Yes	
Product component Trip indicator Phase failure monitoring Undervoltage release Undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch Poptional Undervoltage release with leading contact Product extension Auxiliary switch Product furction Phase failure monitoring Product furction Product function Product function Product function Product function Product function Product function Product function Product function Formation of the seal of the	Product details		
Trip indicator Phase failure monitoring undervoltage release undervoltage release with leading contact No Product feature / sealable Product teature / sealable Product extension Auxiliary switch optional — locking capability — motor drive — who phase failure monitoring — Voltage trigger — Overvoltage protection monitoring Product function Froduct function Froduct function Overvoltage protection monitoring Yes Product function Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) at AC / at 500 V / with high-speed activation / rated value at AC / at 690 V / with high-speed activation / state value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value Oconnections Arrangement of electrical connectors / for main other	Product feature / interlock	Yes	
Phase failure monitoring undervoltage release vibrial vesses Product feature / sealable Product extension Auxiliary switch undervoltage protection Vess Product dure Undervoltage protection monitoring Undervoltage release Vess No Undervoltage rigger Undervoltage protection monitoring Vess Product function Product function Product function Undervoltage protection monitoring Vess Product function Overvoltage protection monitoring Vess Product function Overvoltage protection monitoring Vess Overvoltage p	Product component		
undervoltage release undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive Product furger No Product function Product function Product function Product function output function Froduct function Overvoltage protection monitoring Yes Product function Four five Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) at AC / at 500 V / with high-speed activation / rated value at AC / at 690 V / with high-speed activation / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value output Connections Arrangement of electrical connectors / for main other	Trip indicator	Yes	
undervoltage release with leading contact Product feature / sealable Product extension	 Phase failure monitoring 	No	
Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — Phase failure monitoring — Voltage trigger — Overvoltage protection monitoring Product function Product function Product function • fuse monitoring • Overvoltage protection monitoring No Short circuit Conditional short-circuit current (lq) • rated value • at AC / at 500 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value	undervoltage release	No	
Product extension Auxiliary switch optional locking capability motor drive Phase failure monitoring Ves Voltage trigger Overvoltage protection monitoring Product function Product function of use monitoring No Short circuit Conditional short-circuit current (Iq) rated value at AC / at 500 V / with high-speed activation / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value over the connections Arrangement of electrical connectors / for main other	 undervoltage release with leading contact 	No	
Auxiliary switch optional locking capability motor drive No Phase failure monitoring Ves Voltage trigger No Overvoltage protection monitoring Ves Product function Product function Product function of use monitoring No Short circuit Conditional short-circuit current (Iq) rated value at AC / at 500 V / with high-speed activation / rated value with closed switch / at AC / at 500 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value owith closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other	Product feature / sealable	Yes	
optional — locking capability — motor drive — Phase failure monitoring — Voltage trigger — Vortage trigger — Overvoltage protection monitoring Product function Product function • fuse monitoring • Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) • rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 690 V / rated value	Product extension		
locking capability	Auxiliary switch	Yes	
- motor drive - Phase failure monitoring - Ves - Voltage trigger - Overvoltage protection monitoring Product function Product function • fuse monitoring • Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) • rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value	• optional		
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- Voltage trigger	— motor drive	No	
Product function Product function • fuse monitoring • Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) • rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value	 Phase failure monitoring 	Yes	
Product function • fuse monitoring Yes • Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) • rated value 50 kA • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value	— Voltage trigger	No	
Product function • fuse monitoring • Overvoltage protection monitoring No Short circuit Conditional short-circuit current (Iq) • rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other	 Overvoltage protection monitoring 	Yes	
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Conditional short-circuit current (Iq) • rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value • with closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other	 Overvoltage protection monitoring 	No	
 rated value at AC / at 500 V / with high-speed activation / rated value at AC / at 690 V / with high-speed activation / rated value with closed switch / at AC / at 500 V / rated value with closed switch / at AC / at 690 V / rated value with closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other	Short circuit		
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rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other	• rated value	50 kA	
rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other		50 kA	
value ● with closed switch / at AC / at 690 V / rated value Connections Arrangement of electrical connectors / for main other		50 kA	
Connections Arrangement of electrical connectors / for main other		100 kA	
Arrangement of electrical connectors / for main other		100 kA	
Arrangement of electrical connectors / for main other	Connections		
current circuit		other	
	current circuit		

Connectable conductor cross-section / for main contacts	
single or multi-stranded / minimum	120 mm²
 single or multi-stranded / maximum 	300 mm²
• stranded / minimum	120 mm²
• stranded / maximum	300 mm²
Tightening torque / with screw-type terminals	
• minimum	10 N·m
• maximum	12 N·m
Type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
Height	306 mm
Width	249.4 mm
Depth	169.7 mm
Mounting position	horizontal/vertical
Mounting type	mounting plate
Mounting type	
• floor mounting	Yes
• front mounting	No
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	No
Net weight	4.77 kg
Environmental conditions	
Degree of pollution	2
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 Approval

Declaration of Conformity

Test Certificates







Miscellaneous



Type Test Certificates/Test Report

Shipping Approval



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=3NP1163-1DA12

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1DA12

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1DA12

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications









