

Circuit breaker, ComPacT NSX250N, 50kA/415VAC, 3 poles, MicroLogic 2.2 trip unit 250A

C25N32D250

Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX250N
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	250 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	90 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 600 V AC 50/60 Hz conforming to UL 508
Performance level	N 50 kA 415 V AC
Trip unit name	MicroLogic 2.2
Trip unit technology	Electronic
Trip unit protection functions	LSol
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ics] rated service short-circuit	90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2

breaking capacity

90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2

Electrical durability 20000 cycles at 440 V in 2 10000 cycles at 400 V in 2 10000 cycles at 40000 cycles at 400000 cycles at 40000 cycles at 40000 cycles at 40		3
10000 cycles at 460 V In 10000 cycles at 460	Mechanical durability	20000 cycles
Mounting position Mounting position Mounting position Medizated and vertical filter on the back. Upside connection Front Connection pitch S5 mm Protection type L: for overload protection (long time) So. for short time short-circuit protection Itri) unit rating 250 A at 40 °C Long-time pick-up adjustment type Ir (Internal protection) Itri) long-time protection pick-up adjustment range Long-time protection delay adjustment type tr (Tr) long-time protection delay adjustment range Long-time protection delay adjustment range Adjustable 9 settings Adjustable	Electrical durability	10000 cycles at 440 V In 10000 cycles at 690 V In/2
Mounting position Horizontal and vertical Flat on the back	Power dissipation per pole	17.6 W
Flat on the back Upside connection Front	Mounting support	Backplate
Downside connection Front Connection pitch 35 mm Protection type	Mounting position	
Connection pitch 35 mm Protection type L: for overfoad protection (long time) So: 1 for short time short circuit protection Trip unit rating 250 A at 40 °C Long-time pick-up adjustment type in (thermal protection pick-up adjustment range Long-time protection pick-up adjustment type to the protection delay adjustment type to the protection delay adjustment range Long-time protection delay adjustment type to to the protection of the protection of the protection delay adjustment range Long-time protection delay adjustment type to to the protection pick-up adjustment range Adjustable 9 settings Adjustment type tad (Isd) Short-time protection pick-up adjustment range Fixed Adjustment type tad It is all 7 2 x ir Fixed Adjustment type to the protection pick-up adjustment protection pick-up	Upside connection	Front
Protection type L: for overload protection (long time) So: for short time short-clincult protection with fixed delay I: for inshartaneous short-circuit protection Trip unit rating 250 A at 40 °C Long-time pick-up adjustment type Ir (thermal protection) [I] long-time protection pick-up adjustment range Long-time protection delay adjustment type tr [IT] long-time protection delay adjustment type tr [IT] long-time protection delay adjustment range 20 minutes before and after tripping Short-time protection pick-up adjustment type Isd [Isd] Short-time protection pick- up adjustment range Short-time protection pick- up adjustment type Isd [II] instantaneous protection pick- up adjustment type Ii III] instantaneous protection pick- up adjustment type Ii III] instantaneous protection Short-time protection in pick- up adjustment type Ii III] instantaneous protection Short-time protection pick- up adjustment range Short-time protection pick- up adjustment type Ii III] instantaneous protection Short-time protection Short-time protection pick- up adjustment type Ii III] instantaneous protection Short-time protection Short-time protection Short-time protection pick- up adjustment type Ii III] instantaneous protection Short-time protection Short-time protection Short-time protection Without Zone selective interlocking ZSI Without Number of slots for electrical auxiliaries Local signalling Fliashing LED (green) for ready to operate LED 105 % ir (real) for overload LED 90 % ir (orange) for overload With (W) 105 mm Height (H) 161 mm Depth (D) 86 mm Net weight Environment Standards Envirce 60047 Product certifications CCC EAC	Downside connection	Front
So: for short time short-circuit protection with fixed delay 1: for instantaneous short-circuit protection Trip unit rating 250 A at 40 °C Long-time pick-up adjustment type Ir (thermal protection) I(I) Long-time protection pick-up adjustment type Ir (Tri) long-time protection delay adjustment type tr I(Tri) long-time protection delay adjustment range Long-time protection delay adjustment type Ir (Tri) long-time protection delay adjustment type Ir (Tri) long-time protection pick-up adjustment range Short-time protection pick-up adjustment type Is (Isa) Short-time protection pick-up adjustment type Is (Isa) Short-time protection pick-up adjustment range Short-time protection pick-up adjustment type Is (Isa) Short-time protection pick-up adjustment range Short-time protection pick-up adjustment type Is (Isa) Short-time protection pick-up adjustment type Is (Isa) Short-time protection pick-up adjustment type Is (Isa) Short-time protection pick-up adjustment range Earth-leakage protection Without Zone selective interlocking ZSI (Without Number of slots for electrical auxiliaries Local signalling (Flashing LED) (green) for ready to operate LED Is Short (orange) for overload LED Short (orange) for overload LED Short (orange) for overload LED Short (orange) for overload LED Short (orange) for overload LED Short (orange) for overload LED Hold (W) (M) (M) (M) (M) (M) (M) (M) (M) (M) (M	Connection pitch	35 mm
Long-time protection pick-up adjustment type Ir (thermal protection) Ir] long-time protection pick-up adjustment type Ir Tr] long-time protection delay adjustment type tr Tr] long-time protection delay adjustment type tr Tr] long-time protection delay adjustment type tr Thermal memory 20 minutes before and after tripping Short-time protection pick-up adjustment type tsd Issal 5 x Ir 11 s at 7 x z x Ir Thermal memory 20 minutes before and after tripping Adjustable 9 settings Adjustable 1 set in settings Adjustable 9 settings Adjust	Protection type	So : for short time short-circuit protection with fixed delay
Type r (thermal protection)	Trip unit rating	250 A at 40 °C
Adjustment range Long-time protection delay adjustment type tr (Tr) long-time protection delay adjustment range Adjustment range Adjustable 9 settings Adjustment type Isd (Isd) Short-time protection pick-up adjustmen	Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
adjustment type tr 10 s at 6 x Ir 11 s at 7 2	[Ir] long-time protection pick-up adjustment range	100250 A
adjustment range 16 s at 6 x ir 11 s at 7.2 x ir Thermal memory 20 minutes before and after tripping Short-time protection pick-up adjustment type Isd [Isd] Short-time protection pick-up adjustment range Short-time protection delay adjustment type tsd Instantaneous protection pick-up adjustment type Isd Instantaneous protection pick-up adjustment type Isd Instantaneous protection pick-up adjustment type Isd Instantaneous protection pick-up adjustment range Earth-leakage protection Without Zone selective interlocking ZSI Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 195 % ir (read) for overload LED 90 % ir (orange) for overload Width (W) 105 mm Height (H) 181 mm Depth (D) 86 mm Net weight EN/IEC 60947 Product certifications EN/IEC 60947 Product certifications	Long-time protection delay adjustment type tr	Fixed
Short-time protection pick-up adjustment type Isd [Isd] Short-time protection pick-up adjustment range Short-time protection pick-up adjustment range Short-time protection delay adjustment type tsd Instantaneous protection pick-up adjustment type Isi [Ii] instantaneous protection pick-up adjustment type Ii [Ii] instantaneous protection pick-up adjustment range Earth-leakage protection Without Zone selective interlocking ZSI Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % ir (real) for overload LED 90 % ir (rorange) for overload Height (H) 161 mm Depth (D) 86 mm Net weight Environment Standards EN/IEC 60947 Product certifications CCC EAC	[Tr] long-time protection delay adjustment range	16 s at 6 x lr
Isas	Thermal memory	20 minutes before and after tripping
Short-time protection delay adjustment type tsd Instantaneous protection pick-up adjustment type li [Ii] instantaneous protection pick-up adjustment type li [Iii] instantaneous protection pick-up adjustment range Earth-leakage protection Without Zone selective interlocking ZSI Without Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) 161 mm Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Short-time protection pick-up adjustment type Isd	Adjustable 9 settings
Instantaneous protection pick- up adjustment type Ii Iii] instantaneous protection pick-up adjustment range	[Isd] Short-time protection pick- up adjustment range	1.510 x lr
up adjustment type li [li] instantaneous protection pick-up adjustment range Earth-leakage protection Without Zone selective interlocking ZSI Without Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) 161 mm Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Short-time protection delay adjustment type tsd	Fixed
Earth-leakage protection Without Zone selective interlocking ZSI Without Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) 161 mm Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Instantaneous protection pick- up adjustment type Ii	Fixed
Zone selective interlocking ZSI Without Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) 161 mm Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	[li] instantaneous protection pick-up adjustment range	3000 A
Number of slots for electrical auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) 161 mm Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Earth-leakage protection	Without
Auxiliaries Local signalling Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Zone selective interlocking ZSI	Without
LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload Width (W) 105 mm Height (H) Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Number of slots for electrical auxiliaries	5 slot(s)
Height (H) Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Local signalling	LED 105 % Ir (red) for overload
Depth (D) 86 mm Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Width (W)	105 mm
Net weight 2.4 kg Environment Standards EN/IEC 60947 Product certifications CCC EAC	Height (H)	161 mm
Environment Standards EN/IEC 60947 Product certifications CCC EAC	Depth (D)	86 mm
Standards EN/IEC 60947 Product certifications CCC EAC	Net weight	2.4 kg
Product certifications CCC EAC	Environment	
EAC	Standards	EN/IEC 60947
	Product certifications	EAC

Overvoltage category	Class II
Electrical shock protection class	Class II
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-5085 °C
Relative humidity	095 %
Operating altitude	02000 m without derating 2000 m5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.0 cm
Package 1 Width	11.0 cm
Package 1 Length	19.2 cm
Package 1 Weight	1.978 kg
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	14.227 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Recommended replacement(s)