Product datasheet

Specifications





circuit breaker Compact NSX160B, 25 kA at 415 VAC, Micrologic 4.2 Vigi trip unit 160 A, 4 poles 4d

LV433821

() Discontinued on: 31-Dec-2022

① Discontinued

Main

Wall		
Range	ComPact	
Product name	ComPact NSX	
Range of product	ComPact NSX100250	
Device short name	VigiCompact NSX160B	
Product or component type	Earth leakage circuit breaker	
Device application	Distribution	
Number of poles	4P	
Protected poles description	4t 3t 3t + N/2	
Neutral position	Left	
[In] rated current	160 A at 40 °C	
[Ue] rated operational voltage	440 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	
[lcu] rated ultimate short-circuit breaking capacity	20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2	
Performance level	B 25 kA 415 V AC	
Trip unit name	MicroLogic 4.2	
Trip unit technology	Electronic	
Trip unit protection functions	LSoIR	
Control type	Toggle	
Circuit breaker mounting mode	Fixed	

Complementary

[Ui] rated insulation voltage	500 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ics] rated service short-circuit breaking capacity	40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2

Mechanical durability	40000 cycles
Electrical durability	20000 cycles at 440 V In 40000 cycles at 440 V In/2
mounting support	Backplate
Upside connection	Front
downside connection	Front
Connection pitch	35 mm
Protection type	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection R : for earth-leakage protection
Trip unit rating	160 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	63160 A
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay	11 s at 7.2 x lr
adjustment range	16 s at 6 x lr
	400 s at 1.5 x lr
thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick- up adjustment range	1.510 x lr
Short-time protection delay adjustment type tsd	Fixed
[tsd] Short-time protection delay adjustment range	0.02 s
Instantaneous protection pick-up adjustment type li	Fixed
[li] instantaneous protection pick- up adjustment range	2400 A
Earth-leakage protection	Integrated
Earth-leakage protection class	Class A
Earth-leakage protection sensitity adjustment type l∆n	Adjustable
[l∆n] earth-leakage protection sensitivity adjustment range	30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A
Earth-leakage protection specific mode	OFF using the l∆n rotary switch
Earth-leakage protection time delay adjustement type ∆t	Adjustable
[∆t] Earth-leakage protection time delay adjustment range	0 ms 60 ms 150 ms 500 ms 1 s
Neutral protection settings	0.5 x lr (3t + N/2) 1 x lr (4t) No protection (3t)
Zone selective interlocking ZSI	Without
Number of slots for electrical auxiliaries	5 slot(s)

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Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload	
Width (W)	140 mm	
Height (H)	161 mm	
Depth (D)	86 mm	
Net weight	2.4 kg	

Environment

Standards	EN/IEC 60947
Product certifications	CCC EAC Marine
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	-4085 °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	13.5 cm
Package 1 Width	14.5 cm
Package 1 Length	19.0 cm
Package 1 Weight	2.6 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.8 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information