Product datasheet





Circuit breaker ComPacT NSX160F, 36kA at 415VAC, MicroLogic 4.2 Vigi trip unit 160A, 3 poles 3d

C16F34V160

Main

IVIAIII	
Range	ComPacT new generation
Product Name	ComPacT NSX new generation
Device Short Name	NSX160F
Product Or Component Type	Earth leakage circuit breaker
Device Application	Distribution
Poles Description	3P
Protected Poles Description	3D
[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
[Icu] Rated Ultimate Short-Circuit Breaking Capacity	85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	F 36 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
[lcs] Rated Service Short-Circuit Breaking Capacity	85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2

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Mechanical Durability	40000 cycles
Electrical Durability	40000 cycles at 440 V In/2
	20000 cycles at 440 V In
	15000 cycles at 690 V In/2
	7500 cycles at 690 V In
Power Dissipation Per Pole	12.29 W N
	12.29 W L1 and L3
	9.98 W L2
Mounting Support	Backplate
Mounting Position	Horizontal and vertical Flat on the back
Upside Connection	Front
Downside Connection	Front
Connection Pitch	35 mm
Protection Type	L : for overload protection (long time)
Trotection Type	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	Adjustable 9 settings
Type Ir (Thermal Protection)	Adjustable 8 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	63160 A
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay	400 s at 1.5 x lr
Adjustment Range	16 s at 6 x lr
	11 s at 7.2 x lr
Thermal Memory	20 minutes before and after tripping
Thermal Memory Short-Time Protection Pick-Up Adjustment Type Isd	20 minutes before and after tripping Adjustable
Short-Time Protection Pick-Up	
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick-	Adjustable
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay	Adjustable 1.510 x lr
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 Ii [Ii] Instantaneous Protection Pick-	Adjustable 1.510 x lr Fixed
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 Ii	Adjustable 1.510 x lr Fixed Fixed
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 Ii [Iii] Instantaneous Protection Pick- Up Adjustment Range	Adjustable 1.510 x lr Fixed Fixed 2400 A
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection	Adjustable 1.510 x lr Fixed Fixed 2400 A Integrated
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection	Adjustable 1.510 x lr Fixed Fixed 2400 A Integrated Class A
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion	Adjustable 1.510 x lr Fixed Fixed 2400 A Integrated Class A Adjustable
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion [Ion] Earth-Leakage Protection	Adjustable 1.510 x Ir Fixed Fixed 2400 A Integrated Class A Adjustable 30 mA
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion [Ion] Earth-Leakage Protection	Adjustable 1.510 x Ir Fixed Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion [Ion] Earth-Leakage Protection	Adjustable 1.510 x lr Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion [Ion] Earth-Leakage Protection	Adjustable 1.510 x lr Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A 3 A
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion [Ion] Earth-Leakage Protection	Adjustable 1.510 x lr Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A
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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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Iδn [Iδη] Earth-Leakage Protection Sensitivity Adjustment Range Earth-Leakage Protection Sensitivity Adjustment Range	Adjustable 1.510 x Ir Fixed Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A OFF using the IΔn rotary switch
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Ion [Ion] Earth-Leakage Protection Sensitivity Adjustment Range Earth-Leakage Protection Sensitivity Adjustment Range	Adjustable 1.510 x lr Fixed Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A OFF using the l\Dan rotary switch
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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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Iδn [Iδη] Earth-Leakage Protection Sensitivity Adjustment Range Earth-Leakage Protection Sensitivity Adjustment Type Δδ Earth-Leakage Protection Time Delay Adjustement Type Δt [Δt] Earth-Leakage Protection	Adjustable 1.510 x lr Fixed Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A OFF using the lΔn rotary switch Adjustable 0 ms 60 ms 150 ms 500 ms
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 Ii [Ii] Instantaneous Protection Pick-Up Adjustment Range Earth-Leakage Protection Earth-Leakage Protection Class Earth-Leakage Protection Sensitity Adjustment Type Iδn [Iδη] Earth-Leakage Protection Sensitivity Adjustment Range Earth-Leakage Protection Sensitivity Adjustment Type Δδ Earth-Leakage Protection Time Delay Adjustement Type Δt [Δt] Earth-Leakage Protection	Adjustable 1.510 x lr Fixed Fixed 2400 A Integrated Class A Adjustable 30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A OFF using the lΔn rotary switch Adjustable 0 ms 60 ms 150 ms

Number Of Slots For Electrical Auxiliaries	5 slot(s)
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	2.2 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	-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	14.200 cm
Package 1 Width	11.300 cm
Package 1 Length	18.300 cm
Package 1 Weight	1.978 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	4
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.290 kg

Sustainability Screen Premium

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Transparency RoHS/REACh

Well-being performance

Mercury Free

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Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information