Product data sheet

Specifications



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Circuit breaker, ComPact NSX100HB1, 75kA/690VAC, MicroLogic 6.2E-M trip unit 50A, 3 poles 3d

LV433316

(Discontinued on: Jun 30, 2023

Important message: This product has been switched to new ComPacT range and is no longer commercialized.

Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100250
Device Short Name	NSX100HB1
Product Or Component Type	Circuit breaker
Device Application	Motor
Number Of Poles	3P
Protected Poles Description	3t
[In] Rated Current	50 A at 65 °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	85 kA lcu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 kA lcu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	HB1 75 kA 690 V AC
Trip Unit Name	MicroLogic 6.2 E-M
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSIG
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 Breaking Capacity	85 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2

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Mechanical Durability	50000 cycles
Electrical Durability	10000 cycles at 690 V In
	20000 cycles at 690 V ln/2 30000 cycles at 440 V ln
	50000 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)
	S : for short time short-circuit protection
	I : for instantaneous short-circuit protection G : for ground fault protection
Trip Unit Rating	50 A at 65 °C
Motor Tripping Class	10 5
	20
	30
Complementary Motor Protection	Stalled rotor
	Underload Phase unbalance
	Protracted starting time
Long-Time Pick-Up Adjustment	Adjustable 9 settings
Type Ir (Thermal Protection) [Ir] Long-Time Protection Pick-Up	2550 A
Adjustment Range	Adjustable
Adjustment Type Tr	-
[Tr] Long-Time Protection Delay Adjustment Range	10 s at 7.2 x lr for trip class 10 120 s at 1.5 x lr for trip class 5
	20 s at 7.2 x Ir for trip class 20
	240 s at 1.5 x lr for trip class 10
	26 s at 6 x Ir for trip class 20 480 s at 1.5 x Ir for trip class 20
	5 s at 7.2 x Ir for trip class 5
	13.5 s at 6 x Ir for trip class 10 6.5 s at 6 x Ir for trip class 5
	30 s at 7.2 x Ir for trip class 30
	38 s at 6 x lr for trip class 30
	720 s at 1.5 x Ir for trip class 30
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	513 x lr
Short-Time Protection Delay Adjustment Type Tsd	Fixed
Instantaneous Protection Pick-Up Adjustment Type li	Fixed
[li] Instantaneous Protection Pick- Up Adjustment Range	750 A
Ground-Fault Protection Pick-Up Adjustment Type Ig	Adjustable 9 settings
[Ig] Ground-Fault Protection Pick-	0.61 x ln for ln = 25 A
Up Adjustment Range	0.31 x ln for ln = 50 A 0.21 x ln for ln > 50 A
	Ig enable on/off
Ground-Fault Protection Time Delay Adjustment Type Tg	Adjustable
[Tg] Ground-Fault Protection Time Delay Adjustment Range	00.4 s
Earth-Leakage Protection	Without
Zone Selective Interlocking Zsi	With

Number Of Slots For Electrical Auxiliaries	5 slot(s)
Local Signalling	Flashing LED (green) for ready to operate
	LED 95 % Ith (red) for temperature over set point
Display Type	LCD display
Type Of Measurement	Energy meter
Communication Of Data	Maximeters/minimeters
	Protection and alarm settings
	Demand current and power
	Maintenance indicators
	Power quality
	Phase sequence
	Time-stamped histories and event tables
	Energy metering
	Thermal image function
	Instantaneous and demand values
Width (W)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net Weight	2.05 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	10.8 cm
Package 1 Length	19.2 cm
Package 1 Weight	1.89 kg

Contractual warranty

Warranty

18 months

Sustainability

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 >



RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Eu Rohs Directive	Compliant	
	EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
California Proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	