Product data sheet

Specifications

Discontinued

Circuit breaker, ComPact NSX630HB2, 100kA/690VAC, MicroLogic 6.3E-M trip unit 500A, 3 poles 3d

LV433748

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 NSX400...630
Device Short Name	NSX630HB2
Product Or Component Type	Circuit breaker
Device Application	Motor
Number Of Poles	3P
Protected Poles Description	3t
[In] Rated Current	500 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	100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	HB2 100 kA 690 V AC
Trip Unit Name	MicroLogic 6.3 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	100 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2

Mechanical Durability	15000 cycles
Electrical Durability	2000 cycles at 690 V In 6000 cycles at 690 V In/2 4000 cycles at 440 V In 8000 cycles at 440 V In/2
Mounting Support	Backplate
Upside Connection	Front
Downside Connection	Front
Connection Pitch	45 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	500 A at 65 °C
Motor Tripping Class	10 20 30 5
Complementary Motor Protection	Stalled rotor Protracted starting time Phase unbalance Underload
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	250...500 A
Long-Time Protection Delay Adjustment Type Tr	Adjustable
[Tr] Long-Time Protection Delay Adjustment Range	10 s at 7.2 x Ir for trip class 10 120 s at 1.5 x Ir for trip class 5 20 s at 7.2 x Ir for trip class 20 240 s at 1.5 x Ir 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 Ir 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 9 settings
[Isd] Short-Time Protection Pick-Up Adjustment Range	5...13 x Ir
Short-Time Protection Delay Adjustment Type Tsd	Fixed
Instantaneous Protection Pick-Up Adjustment Type Ii	Fixed
[Ii] Instantaneous Protection Pick-Up Adjustment Range	6500 A
Ground-Fault Protection Pick-Up Adjustment Type Ig	Adjustable 9 settings
[Ig] Ground-Fault Protection Pick-Up Adjustment Range	0.6...1 x In for In = 25 A 0.3...1 x In for In = 50 A 0.2...1 x In for In > 50 A Ig enable on/off
Ground-Fault Protection Time Delay Adjustment Type Tg	Adjustable
[Tg] Ground-Fault Protection Time Delay Adjustment Range	0…0.4 s
Earth-Leakage Protection	Without
Zone Selective Interlocking Zsi	With

Number Of Slots For Electrical Auxiliaries	6 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	Demand current and power Protection and alarm settings Maximeters/minimeters Thermal image function Phase sequence Energy metering Time-stamped histories and event tables Maintenance indicators Power quality Instantaneous and demand values
Width (W)	140 mm
Height (H)	255 mm
Depth (D)	110 mm
Net Weight	6.2 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	-25…70 °C
Ambient Air Temperature For Storage	-40…85 °C
Relative Humidity	0…95 %
Operating Altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	15.2 cm
Package 1 Width	15.2 cm
Package 1 Length	29.2 cm
Package 1 Weight	5.81 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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 >

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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