Product datasheet





! Discontinued

circuit breaker Compact NSX100H, 70 kA at 415 VAC, Micrologic 5.2 A trip unit 40 A, 4 poles 4d

LV429804

! Discontinued on: 7 Jul 2022

EAN Code: 3606480007552

Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100250
Device Short Name	NSX100H
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	4P
Protected Poles Description	3t + OSN 3t + N/2 4t 3t
Neutral Position	Left
[In] Rated Current	40 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	10 kA at 600 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508 65 kA at 480 V AC 50/60 Hz conforming to UL 508 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 220/240 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 50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	H 70 kA 415 V AC
Trip Unit Name	MicroLogic 5.2 A
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSI
Control Type	Toggle
Circuit Breaker Mounting Mode	Fixed

Complementary

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	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	50000 cycles
Electrical Durability	10000 cycles at 690 V In 20000 cycles at 690 V In/2 30000 cycles at 440 V In 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
Trip Unit Rating	40 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable
[Ir] Long-Time Protection Pick-Up Adjustment Range	1840 A
Long-Time Protection Delay Adjustment Type Tr	Adjustable
[Tr] Long-Time Protection Delay Adjustment Range	15400 s at 1.5 x lr 0.3511 s at 7.2 x lr 0.516 s at 6 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	Adjustable
[Tsd] Short-Time Protection Delay Adjustment Range	00.4 s
Instantaneous Protection Pick-Up Adjustment Type Ii	Adjustable
[li] Instantaneous Protection Pick- Up Adjustment Range	1.515 x ln
Earth-Leakage Protection	Without
Neutral Protection Settings	0.5 x lr (3t + N/2) 1 x lr (4t) 1.6 x lr (3t + OSN) No protection (3t)
Zone Selective Interlocking Zsi	With
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
Display Type	LCD display
Type Of Measurement	Ammeter

Communication Of Data	Energy metering Power quality Demand current and power Maximeters/minimeters Time-stamped histories and event tables Protection and alarm settings Maintenance indicators Instantaneous and demand values
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

Contractual warranty

Warranty	18 months
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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