

Product datasheet

Specifications



Circuit breaker, ComPact NSX630R, 200kA/415VAC, MicroLogic 6.3E trip unit 630A, 4 poles 4d

LV433707

⚠ Discontinued on: 30 Jun 2022

⚠ End-of-service on: 30 Jun 2023

⚠ Discontinued

Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX400...630
Device short name	NSX630R
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	4P
Protected poles description	4t 3t + N/2 3t 3t + OSN
Neutral position	Left
[In] rated current	630 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	200 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 200 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 200 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 80 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 45 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	R 200 kA 415 V AC
Trip unit name	MicroLogic 6.3 E
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Ics] rated service short-circuit breaking capacity	200 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 200 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 200 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 80 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 16 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 12 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	630 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	250...630 A
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	15...400 s at 1.5 x Ir 0.35...11 s at 7.2 x Ir 0.5...16 s at 6 x Ir
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	1.5...11 x In
Short-time protection delay adjustment type tsd	Adjustable 5 settings
[tsd] Short-time protection delay adjustment range	0...0.4 s
Instantaneous protection pick-up adjustment type Ii	Adjustable
[Ii] instantaneous protection pick-up adjustment range	1.5...11 x In
Ground-fault protection pick-up adjustment type Ig	Adjustable 9 settings
[Ig] ground-fault protection pick-up adjustment range	0.4...1 x In for In = 40 A 0.2...1 x In for In > 40 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 I²t=off 0.1...0.4 s I²t=on
Earth-leakage protection	Without
Neutral protection settings	0.5 x Ir (3t + N/2) 1 x Ir (4t) 1.6 x Ir (3t + OSN) No protection (3t)
Zone selective interlocking ZSI	With
Number of slots for electrical auxiliaries	6 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	Energy meter
Communication of data	Demand current and power Maintenance indicators Energy metering Time-stamped histories and event tables Power quality Protection and alarm settings Maximeters/minimeters Instantaneous and demand values
Width (W)	185 mm
Height (H)	255 mm
Depth (D)	110 mm
Net weight	8.13 kg

Environment

Standards	EN/IEC 60947
Product certifications	Marine CCC EAC
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	20.3 cm
Package 1 Length	29.2 cm
Package 1 Weight	8.34 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Total lifecycle Carbon footprint	1 639 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	44 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.9 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 591 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.

Use Better

Materials and Substances	
SCIP Number	25ca3248-85d0-423a-a9d8-5b7aeb52e7b6
EU RoHS Directive	Compliant By Exemption

Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins