Product datasheet

Specifications



Circuit breaker, ComPacT NSX630N, 50kA/415VAC, 4 poles, MicroLogic 2.3 trip unit 630A

C63N42D630

Main

Mann		
Range	ComPacT	
Product name	ComPacT NSX	
Device short name	NSX630N	
Product or component type	Circuit breaker	
Device application	Distribution	
Poles description	4P	
Protected poles description	4D 3D + N/2 3D	
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	
Breaking capacity	85 kA lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 42 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA lcu at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 kA lcu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA lcu at 240 V AC 50/60 Hz conforming to UL 60947-4-1 50 kA lcu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 20 kA lcu at 600 V AC 50/60 Hz conforming to UL 60947-4-1	
Breaking capacity code	N 50 kA 415 V AC	
Trip unit name	MicroLogic 2.3	
Trip unit technology	Electronic	
Trip unit protection functions	LSol	
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 breaking capacity	85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 42 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 11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2	
Mechanical durability	15000 cycles	
Electrical durability	8000 cycles at 440 V ln/2 4000 cycles at 440 V ln 6000 cycles at 690 V ln/2 2000 cycles at 690 V ln	
Power dissipation per pole	39.7 W	
Mounting support	Backplate	
Mounting position	Horizontal and vertical Flat on the back	
Upside connection	Front	
Downside connection	Front	
Connection pitch	45 mm	
Protection type	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit 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	250630 A	
Long-time protection delay adjustment type tr	Fixed	
[tr] long-time delay adjustment range	400 s at 1.5 x lr 16 s at 6 x lr 11 s at 7.2 x lr	
Neutral protection setting	0.5 x lr (3D + N/2) 1 x lr (4D) No protection (3D)	
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	1.510 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	6900 A	
Earth-leakage protection	Without	
Zone selective interlocking ZSI	Without	
Number of slots	6 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)	185 mm	
Height (H)	255 mm	
Depth (D)	110 mm	
Net weight	8.13 kg	

Environment

Standards	EN/IEC 60947-2
Overvoltage category	III
Electrical shock protection class	Class II on front face
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	15.000 cm
Package 1 Width	20.000 cm
Package 1 Length	29.000 cm
Package 1 Weight	7.433 kg
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	15.566 kg

🜔 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 \geq

${\mathcal Q}$ Environmental footprint	
Total lifecycle Carbon footprint	705
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	25ca3248-85d0-423a-a9d8-5b7aeb52e7b6
REACh Regulation	REACh Declaration
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

Use Longer

$ m \mathring{O}$ Lifetime extension		
Updatability	Νο	

Use Again

$^{\circlearrowright}$ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features











Wireless auxiliary contact



Long terminal shield



MN undervoltage release

Short terminal shield



MX shunt release



Standard auxiliary contact



Standard motor mechanism module



Offer Marketing Illustration

Product benefits / Features



Technical Illustration

Assembly's dimensions

