

Circuit breaker, ComPacT NS630bN, 50kA at 415VAC, 4P, fixed, manually operated, MicroLogic 2.0 control unit, 630A

C063N420FM

# Main

IVIAIII		
Range	ComPacT	
Product name	ComPacT NS new generation	
Range of product	ComPacT NS630b1600 new generation	
Product or component type	Circuit breaker	
Device application	Distribution	
Number of poles	4P	
Protected poles description	4D	
Neutral position	Left	
[In] rated current	630 A at 50 °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 B	
Breaking capacity	85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2	
Breaking capacity code	N 50 kA 415 V AC	
Trip unit name	MicroLogic 2.0	
Trip unit technology	Electronic	
Trip unit protection functions	LI	
Control type	Manually operated	
Mounting mode	Fixed	

# Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz conforming to IEC 60947-2	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2	
[lcs] rated service breaking capacity	50 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 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2	
[lcw] rated short-time withstand current	19.2 kA 1 s conforming to IEC 60947-2	

Mechanical durability	10000 cycles	
Electrical durability	2000 cycles at 690 V In 4000 cycles at 690 V In/2 5000 cycles at 440 V In 6000 cycles at 440 V In/2	
Power losses	10 W	
Mounting support	Backplate	
Upside connection	Front	
Downside connection	Front	
Connection pitch	70 mm	
Protection type	L : for overload protection (long time) I : for instantaneous short-circuit protection	
Trip unit rating	630 A at 50 °C	
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings	
[Ir] long-time protection pick-up adjustment range	0.41 x ln	
Long-time protection delay adjustment type tr	Adjustable 9 settings	
[tr] long-time delay adjustment range	12.5600 s at 1.5 x lr 0.524 s at 6 x lr 0.716.6 s at 7.2 x lr	
Thermal memory	20 mn	
Instantaneous protection pick-up adjustment type li	Adjustable	
[li] instantaneous protection pick- up adjustment range	1.510 x lr	
Earth-leakage protection	Without	
Neutral protection setting	No protection (3D) 0.5 x lr (3D + N/2) 1 x lr (4D)	
Zone selective interlocking ZSI	Without	
Auxiliary contact composition	1 NO/NC	
Local signalling	4 LEDs (red) for fault indication 1 LED (yellow) for overload	
Width (W)	280 mm	
Height (H)	327 mm	
Depth (D)	147 mm	
Product weight	18 kg	

# **Environment**

Standards	EN/IEC 60947-2	
Product certifications	IECEE CB Scheme	
Overvoltage category	III	
Electrical shock protection class	Class II on front face	
Pollution degree	3 conforming to IEC 60947	
IP degree of protection	IP40 conforming to IEC 60529	
IK degree of protection	IK07 conforming to EN 50102	
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	30.000 cm
Package 1 Width	37.000 cm
Package 1 Length	38.000 cm
Package 1 Weight	14.873 kg



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	533
Environmental Disclosure	Product Environmental Profile

## **Use Better**

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	76c2e213-3b51-4d8b-afdf-632ded42d731
REACh Regulation	REACh Declaration
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

## **Use Again**

○ 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

# **Technical Illustration**

# Assembly's dimensions



