



### Main

Range	Compact
Range of product	NS630b...1600
Product or component type	Circuit breaker
Product name	Compact NS
Device short name	Compact NS630bN
Circuit breaker name	Compact NS630bN
Device application	Distribution
Poles description	3P
Protected poles description	3t
Network type	AC
Breaking capacity code	N
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category B
Trip unit name	Micrologic 5.0 E
Trip unit technology	Electronic
Trip unit rating	630 A ( 50 °C )

### Complementary

Network frequency	50/60 Hz
Control type	Toggle Rotary handle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
[In] rated current	630 A ( 50 °C )
[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
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
Circuit breaker CT rating	630 A
Breaking capacity	50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 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  
 30 kA Icu at 660/690 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

[Ics] rated service breaking capacity	Ics 30 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 40 kA 500/525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2
Auxiliary contact composition	1 NO/NC
Mechanical durability	10000 cycles
Electrical durability	2000 cycles IEC 60947-2 690 V In AC 50/60 Hz 4000 cycles IEC 60947-2 690 V In/2 AC 50/60 Hz 5000 cycles IEC 60947-2 440 V In AC 50/60 Hz 6000 cycles IEC 60947-2 440 V In/2 AC 50/60 Hz
Local signalling	Positive contact indication
[Icw] rated short-time withstand current	19.2 kA
Trip unit protection functions	LSI
Protection type	Overload protection (long time) Instantaneous short-circuit protection Short time short-circuit protection
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.4...1 x In
Long time delay adjustment type	Adjustable 9 settings
[Tr] long-time delay adjustment range	0.5...24 s 6 x Ir 0.7...16.6 s 7.2 x Ir 12.5...600 s 1.5 x Ir
Thermal memory	20 mn
Short-time pick-up adjustment type I <sub>sd</sub>	Adjustable 9 settings
[I <sub>sd</sub> ] short-time pick-up adjustment range	1.5...10 x Ir
Short-time delay adjustment type	Adjustable
[T <sub>sd</sub> ] short-time delay adjustment range	0.02...0.5 s
[T <sub>sd</sub> ] short-time delay adjustment range	0.1...0.4 s I <sup>2</sup> t=on 0...0.4 s I <sup>2</sup> t=off
Instantaneous pick-up adjustment type I <sub>i</sub>	Adjustable
Instantaneous pick-up adjustment range	2...15 x In Off
Integral instant protection	40 kA
Zone selective interlocking ZSI	With
Display type	LCD display
Type of measurement	Energy meter
Height	327 mm
Width	210 mm
Depth	147 mm
Compatibility code	NS630b

## Environment

Standards	IEC 60947-2
Product certifications	ASTA ASEFA
Power losses	10 W
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Pollution degree	3 conforming to IEC 60947
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C

## Contractual warranty

Warranty period	18 months
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