



### Main

Range	Compact
Range of product	NS630b...1600
Product or component type	Circuit breaker
Device short name	Compact NS1600N
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 6.0
Trip unit technology	Electronic
Trip unit rating	1600 A at 50 °C

### Complementary

Network frequency	50/60 Hz
Control type	Rotary handle Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
[In] rated current	1600 A at 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	1600 A
Breaking capacity	30 KA Icu at 660/690 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 85 KA Icu at 220/240 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	30 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 37 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 37 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 22 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 37 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2
Auxiliary contact composition	1 NO/NC
Mechanical durability	10000 Cycles

Electrical durability	5000 Cycles 440 V AC 50/60 Hz $I_n/2$ conforming to IEC 60947-2 1000 Cycles 690 V AC 50/60 Hz $I_n$ conforming to IEC 60947-2 2000 Cycles 440 V AC 50/60 Hz $I_n$ conforming to IEC 60947-2 2000 Cycles 690 V AC 50/60 Hz $I_n/2$ conforming to IEC 60947-2
Local signalling	Positive contact indication
[Icw] rated short-time withstand current	19.2 KA
Trip unit protection functions	LSIG
Protection type	Earth fault Overload protection (long time) Short time short-circuit protection Instantaneous short-circuit protection
Long time pick-up adjustment type $I_r$	Adjustable
Long time pick-up adjustment range	0.4...1 x $I_n$
Long time delay adjustment type	Adjustable 9 settings
[tr] long-time delay adjustment range	0.7...16.6 S 7.2 x $I_r$ 12.5...600 S 1.5 x $I_r$ 0.5...24 S 6 x $I_r$
Thermal memory	20 mn
Short-time pick-up adjustment type $I_{sd}$	Adjustable 9 settings
[I <sub>sd</sub> ] short-time pick-up adjustment range	1.5...10 x $I_r$
Short-time delay adjustment type	Adjustable
[tsd] short-time delay adjustment range	0.1...0.4 S $I^2t=on$ 0...0.4 S $I^2t=off$
Instantaneous pick-up adjustment type $I_i$	Adjustable
Instantaneous pick-up adjustment range	Off 2...15 x $I_n$
Integral instant protection	40 KA
Ground-fault pick-up adjustment type	Adjustable 9 settings
[I <sub>g</sub> ] ground-fault pick-up adjustment range	0.3...1 x $I_n$ for $I_n \leq 400$ A 0.2...1 x $I_n$ for $400$ A < $I_n < 1250$ A 500...1200 A for $I_n \geq 1250$ A
Ground-fault time delay adjustment type -tg	Adjustable
[tg] ground-fault time delay adjustment range	0.1...0.4 S $I^2t=on$ 0...0.4 S $I^2t=off$
Zone selective interlocking ZSI	With
Height	327 Mm
Width	280 Mm
Depth	147 Mm

## Environment

Standards	IEC 60947-2
Product certifications	ASEFA ASTA
Power losses	74 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

## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product Life Status : **Commercialised**