



### Main

Range	Compact
Range of product	Compact NS100...630
Product or component type	Circuit breaker
Product name	Compact NS
Device short name	Compact NS100N
Circuit breaker name	Compact NS100N
Device application	Distribution
Poles description	2P
Protected poles description	2t
Network type	AC DC
Network frequency	50/60 Hz
[In] rated current	100 A 65 °C 100 A 40 °C
[Ui] rated insulation voltage	750 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 60947-2 750 V DC conforming to IEC 60947-2
Breaking capacity code	N
Breaking capacity	85 kA Icu at 250 V DC 1P conforming to IEC 60947-2 85 kA Icu at 48/125 V DC 1P conforming to IEC 60947-2 18 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 18 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 500 V DC 2P conforming to IEC 60947-2 10 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 25 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC
[Ics] rated service breaking capacity	Ics 18 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 18 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 25 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 25 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 8 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 85 kA 220 V AC 50/60 Hz conforming to IEC 60947-2 Ics 85 kA 250 V DC conforming to IEC 60947-2

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 85 kA 48/125 V DC conforming to IEC 60947-2  
Ics 85 kA 500 V DC conforming to IEC 60947-2

Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit rating	50 A ( 40 °C )
Protection type	Overload protection (thermal) Short-circuit protection (magnetic)
Pollution degree	3 conforming to IEC 60947

## Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	20000 cycles
Electrical durability	10000 cycles 277 V AC 50/60 Hz In conforming to IEC 60947-2 20000 cycles 277 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Magnetic tripping current	1000 A 1250 A 190 A 260 A 300 A 500 A 640 A 800 A
Long time pick-up adjustment type Ir	Fixed
Long time pick-up adjustment range	0.8...1 x In
Instantaneous pick-up adjustment type li	Fixed
Instantaneous pick-up adjustment range	500 A
Height	161 mm
Width	70 mm
Depth	86 mm
Compatibility code	NS100

## Environment

Standards	IEC 60947-2
Product certifications	ASEFA ASTA KEMA LCIE
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
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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