



## Main

Range	Compact
Product name	Compact NSX
Product or component type	Circuit breaker
Device short name	Compact NSX630N
Device application	Motor
Poles description	3P
Protected poles description	3t
Network type	AC
Network frequency	50/60 Hz
[In] rated current	500 A at 65 °C
[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ue] rated operational voltage	690 V AC 50/60 Hz
Breaking capacity code	N 50 kA 415 V AC
Breaking capacity	85 kA at 240 V AC 50/60 Hz conforming to UL 508 22 kA Icu at 525 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 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 600 V AC 50/60 Hz conforming to UL 508 50 kA at 480 V AC 50/60 Hz conforming to UL 508 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220/240 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 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2
Utilisation category	Category A

Trip unit name	Micrologic 2.3 M
Trip unit technology	Electronic
Trip unit protection functions	LSol
Pollution degree	3 conforming to IEC 60664-1

## Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	15000 cycles
Electrical durability	6000 cycles 690 V In/2 conforming to IEC 60947-2 2000 cycles 690 V In conforming to IEC 60947-2 4000 cycles 440 V In conforming to IEC 60947-2 8000 cycles 440 V In/2 conforming to IEC 60947-2
Connection pitch	45 mm
Local signalling	LED ready LED 95 % Ith
Motor tripping class	10 20 5
Complementary motor protection	Phase unbalance
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	500 A at 65 °C
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	250...500 A
[Tr] long-time delay adjustment range	10 s at 7.2 x Ir for trip class 10 120 s at 1.5 x Ir for trip class 5 20 s at 7.2 x Ir for trip class 20 240 s at 1.5 x Ir for trip class 10 26 s at 6 x Ir for trip class 20 480 s at 1.5 x Ir for trip class 20 5 s at 7.2 x Ir for trip class 5 13.5 s at 6 x Ir for trip class 10 6.5 s at 6 x Ir for trip class 5
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type I <sub>sd</sub>	Adjustable 9 settings
[I <sub>sd</sub> ] short-time pick-up adjustment range	5...13 x Ir
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type I <sub>i</sub>	Fixed
Instantaneous pick-up adjustment range	6500 A
Height	255 mm
Width	140 mm
Depth	110 mm
Product weight	6.2 kg
Compatibility code	NSX630

## Environment

Overvoltage category	Class II
Electrical shock protection class	Class II
Standards	EN/IEC 60947 UL 508

Product certifications	CCC EAC Marine
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-35...70 °C
Ambient air temperature for storage	-55...85 °C

### Offer Sustainability

Sustainable offer status	Green Premium product
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> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>

### Contractual warranty

Warranty	18 months
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