



## Main

Range	Compact
Product name	Compact NSXm
Device short name	NSXm 80F
Product or component type	Circuit breaker
Device application	Protection Distribution

## Complementary

[In] rated current	80 A
Poles description	4P 4d
Neutral position	Left
Control type	Toggle
Mounting mode	By screws (plate) Clip-on (DIN rail)
Network type	AC
Network frequency	50/60 Hz
Breaking capacity code	F 36 kA 415 V AC
[Icu] rated ultimate breaking capacity	Icu 85 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	85 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 36 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
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
[Ui] rated insulation voltage	800 V conforming to IEC 60947-2
Trip unit technology	Thermal-magnetic
Trip unit name	TM-D
Trip unit protection functions	LI

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

Trip unit rating	80 A at 40 °C
Protection type	Overload protection (thermal) Short-circuit protection (magnetic)
Long time pick-up adjustment range	0.7...1 x I <sub>n</sub>
Short-time pick-up adjustment type I <sub>sd</sub>	Fixed
Short-time delay adjustment type	Fixed
Magnetic hold current	800 A
Magnetic tripping current	1200 A
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
9 mm pitches	12 module
Connection pitch	35 mm with spreaders 27 mm without spreaders
Connections - terminals	compression lug/busbar
Thread type	M6
Thickness	8 mm
Tightening torque	5 N.m for 2.5...10 mm <sup>2</sup> 9 N.m for 16...95 mm <sup>2</sup>
Local signalling	Flag (green)presence of auxiliary contacts:
Number of slots	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
Power wire stripping length	20 mm

## Environment

Quality labels	CE
Standards	EN/IEC 60947
Product certifications	CCC EAC Marine
Colour	Grey (RAL 7016)
IP degree of protection	Front cover: IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Pollution degree	3 conforming to IEC 60947-1
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m without derating 5000 m with derating
Mechanical durability	20000 cycles conforming to IEC 947-1 Annex K ed 5.2 I <sub>n</sub>
Electrical durability	10000 cycles conforming to IEC 947-1 Annex F ed 5.2 for I <sub>n</sub> at 440 V
Height	137 mm
Width	108 mm
Depth	80 mm
Product weight	1.42 kg
Quantity per set	Set of 1

## 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>

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Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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### Contractual warranty

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Warranty	18 months
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