



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	3P 3d
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
Trip unit rating	80 A at 40 °C

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

Protection type	Overload protection (thermal) Short-circuit protection (magnetic)
Long time pick-up adjustment range	0.7...1 x I _n
Short-time pick-up adjustment type I _{sd}	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	9 module
Connection pitch	35 mm with spreaders 27 mm without spreaders
Connections - terminals	1 Everlink lug wire size 2.5...95 mm ² , rigid or stranded aluminium/copper 1 Everlink lug wire size 2.5...70 mm ² , flexible copper
Tightening torque	5 N.m for 2.5...10 mm ² 9 N.m for 16...95 mm ²
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 _n
Electrical durability	10000 cycles conforming to IEC 947-1 Annex F ed 5.2 for I _n at 440 V
Height	137 mm
Width	81 mm
Depth	80 mm
Product weight	1.06 kg
Quantity per set	Set of 1

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
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

Contractual warranty

Warranty	18 months
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