

Product data sheet

Characteristics

C25N1TM160

Circuit breaker, ComPacT NSX250N AC, 25kA/240VAC, 1 pole, TMD trip unit 160A



Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX250N
Product or component type	Circuit breaker
Device application	Distribution
Poles description	1P
Protected poles description	1D
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	277 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	90 KA Icu at 220/240 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 36 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 525 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
Performance level	N 25 kA 240 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[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
[Ics] rated service short-circuit breaking capacity	90 KA at 220/240 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 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 525 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
Mechanical durability	10000 cycles
Electrical durability	10000 Cycles at 440 V In/2 5000 cycles at 440 V In
Power dissipation per pole	11.78 W
Mounting support	Backplate

Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front
Connection pitch	35 mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	160 A at 40 °C
Long-time pick-up adjustment type I _r (thermal protection)	Fixed
[I _r] long-time protection pick-up adjustment range	1 x I _n
Long-time protection delay adjustment type t _r	Fixed
Instantaneous protection pick-up adjustment type I _i	Fixed
[I _i] instantaneous protection pick-up adjustment range	850 A
Earth-leakage protection	Without
Width (W)	35 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	0.7 kg

Environment

Standards	EN/IEC 60947
Product certifications	CCC EAC Marine
Overvoltage category	Class II
Electrical shock protection class	Class II
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8 cm
Package 1 Width	13 cm
Package 1 Length	18 cm
Package 1 Weight	1.281 kg
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	15.859 kg
Unit Type of Package 3	P12
Number of Units in Package 3	180
Package 3 Height	150 cm
Package 3 Width	80 cm
Package 3 Length	120 cm
Package 3 Weight	230.58 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
PVC free	Yes