Product data sheet
Characteristics

C10M1TM020
Circuit breaker, ComPacT NSX100M AC/DC, 40kA/240VAC, 1 pole, TMD trip unit 20A

Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX100M
Product or component type	Circuit breaker
Device application	Distribution
Poles description	1P
Protected poles description	1D
[In] rated current	20 A at 40 °C
[Ue] rated operational voltage	277 V AC 50/60 Hz 250 V DC 50/60 Hz
Network type	AC DC
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	40 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 250 V DC conforming to IEC 60947-2
Performance level	M 40 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	40 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 250 V DC conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	20000 Cycles at 277 V In/2 10000 cycles at 277 V In
Power dissipation per pole	6.42 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	20 A at 40 °C

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Long-time pick-up adjustment type Ir (thermal protection)	Fixed
[Ir] long-time protection pick-up adjustment range	1 x In
Long-time protection delay adjustment type tr	Fixed
Instantaneous protection pick-up adjustment type Ii	Fixed
[Ii] instantaneous protection pick-up adjustment range	190 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	4.300 cm
Package 1 Width	13.000 cm
Package 1 Length	17.700 cm
Package 1 Weight	732.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.152 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