

# Product data sheet

## Characteristics

# C25B4TM160

Circuit breaker, ComPacT NSX250B, 25kA/415VAC, 4 poles 4D (neutral fully protected), TMD trip unit 160A



### Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX250B
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	4D
Neutral position	Left
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	690 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	40 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 15 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	B 25 kA 415 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	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ics] rated service short-circuit breaking capacity	40 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 15 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	20000 Cycles at 440 V In/2 10000 Cycles at 440 V In 10000 Cycles at 690 V In/2 5000 cycles at 690 V In
Power dissipation per pole	11.78 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back

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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)	Adjustable
[ $I_r$ ] long-time protection pick-up adjustment range	0.7...1 x $I_n$
Long-time protection delay adjustment type $t_r$	Fixed
[ $t_r$ ] long-time protection delay adjustment range	120...400 S at 1.5 x $I_n$ 15 s at 6 x $I_r$
Neutral protection settings	1 x $I_r$ (4D)
Instantaneous protection pick-up adjustment type $I_i$	Fixed
[ $I_i$ ] instantaneous protection pick-up adjustment range	1250 A
Earth-leakage protection	Without
Number of slots for electrical auxiliaries	5 slot(s)
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.8 kg

## Environment

Standards	EN/IEC 60947
Product certifications	CCC[RETURN]EAC[RETURN]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	13.5 cm
Package 1 Width	14.5 cm
Package 1 Length	19 cm
Package 1 Weight	2.674 kg
Unit Type of Package 2	CAR
Number of Units in Package 2	6
Package 2 Height	23 cm
Package 2 Width	39 cm
Package 2 Length	49 cm
Package 2 Weight	16.9295 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	48
Package 3 Height	107 cm
Package 3 Width	40 cm
Package 3 Length	60 cm
Package 3 Weight	140.436 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
PVC free	Yes