# C16B4TM100

Circuit breaker, ComPacT NSX160B, 25kA/415VAC, 4 poles 4D (neutral fully protected), TMD trip unit 100A





#### Main

Product name	Range	ComPacT new generation
Product or component type  Device application  Poles description  Protected poles description  Neutral position  Left  [In] rated current  Iue] rated operational voltage  Network type  AC  Network frequency  Suitability for isolation  Ves conforming to EN/IEC 60947-2  Utilisation category  [Icu] rated ultimate short-circuit breaking capacity  AC  Network 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  21 5 kA Icu at 440 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  Control type  Toggle  Circuit breaker  Fixed	Product name	ComPacT NSX new generation
type  Device application Distribution  Poles description  Protected poles description  Neutral position  Left  [In] rated current Io0 A at 40 °C  [Ue] rated operational voltage  Network type AC  Network frequency Suitability for isolation  Utilisation category  [Icu] rated ultimate short-circuit breaking capacity  AC  Network at 200440 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  215 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2  25 KA Icu at 450 V AC 50/60 Hz conforming to IEC 60947-2  Trip unit name  TM-D  Trip unit technology  Thermal-magnetic  Trip unit protection functions  Control type Toggle  Circuit breaker  Fixed	Device short name	NSX160B
Poles description 4P Protected poles description 4D Reutral position Left  [In] rated current 100 A at 40 °C  [Ue] rated operational voltage  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 1EC 60947-2  Experiment 25 KA Icu at 380/415 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  Trip unit name TM-D  Trip unit technology Thermal-magnetic  Trip unit protection functions  Control type Toggle  Circuit breaker Fixed	•	Circuit breaker
Protected poles description  Neutral position  Left  [In] rated current  [Ue] rated operational voltage  Network type  AC  Network frequency  Suitability for isolation  Utilisation category  [Icu] rated ultimate short-circuit breaking capacity  Performance level  Performance level  Trip unit protection functions  AC  AD  40 A at 40 °C  (990 V AC 50/60 Hz  690 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  15 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  Trip unit protection tunctions  Control type  Toggle  Circuit breaker  Trip anit protection functions	Device application	Distribution
Neutral position    Neutral position   Left	Poles description	4P
[In] rated current 100 A at 40 °C  [Ue] rated operational voltage  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 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  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  Control type Toggle  Circuit breaker Fixed		4D
[Ue] rated operational voltage  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 25 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  Control type Toggle  Circuit breaker Fixed	Neutral position	Left
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 EC 60947-2  EC 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  15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2  Trip unit name TM-D  Trip unit technology Thermal-magnetic  Trip unit protection functions  Control type Toggle  Circuit breaker Fixed	[In] rated current	100 A at 40 °C
Network frequency  Suitability for isolation  Yes conforming to EN/IEC 60947-2  Utilisation category  [Icu] rated ultimate short-circuit breaking capacity  EC 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  Control type  Toggle  Circuit breaker  Fixed		690 V AC 50/60 Hz
Suitability for isolation  Yes conforming to EN/IEC 60947-2  Utilisation category  [Icu] rated ultimate short-circuit breaking capacity  EC 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  Control type  Toggle  Circuit breaker  Tivi Little Conforming to IEC 60947-2  Category A  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  The protection functions  Tip unit protection functions  Control type  Toggle  Circuit breaker  Tip unit protection fixed	Network type	AC
Utilisation category  [Icu] rated ultimate short-circuit breaking capacity  A0 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 Trip unit name  TM-D  Trip unit technology  Thermal-magnetic  Trip unit protection functions  Control type  Toggle  Circuit breaker  Tivi unit redefinition of the conforming to IEC for the conforming	Network frequency	50/60 Hz
[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  Control type  Toggle  Circuit breaker  Fixed	Suitability for isolation	Yes conforming to EN/IEC 60947-2
short-circuit breaking capacity  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  Control type  Toggle  Circuit breaker  Fixed	Utilisation category	Category A
Trip unit name TM-D  Trip unit technology Thermal-magnetic  Trip unit protection functions  Control type Toggle  Circuit breaker Fixed	short-circuit breaking capacity	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
Trip unit technology Thermal-magnetic  Trip unit protection functions  Control type Toggle  Circuit breaker Fixed	Performance level	B 25 kA 415 V AC
Trip unit protection functions  Control type  Circuit breaker  Toggle  Fixed	Trip unit name	TM-D
functions  Control type Toggle  Circuit breaker Fixed	Trip unit technology	Thermal-magnetic
Circuit breaker Fixed		Ц
	Control type	Toggle
		Fixed

#### Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[lcs] 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	40000 cycles
Electrical durability	40000 Cycles at 440 V In/2 20000 Cycles at 440 V In 15000 Cycles at 690 V In/2 7500 cycles at 690 V In
Power dissipation per pole	7.7 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	100 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
[Ir] long-time protection pick-up adjustment range	0.71 x ln
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay adjustment range	120400 S at 1.5 x In 15 s at 6 x Ir
Neutral protection settings	1 x lr (4D)
Instantaneous protection pick-up adjustment type li	Fixed
[li] instantaneous protection pick-up adjustment range	800 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	2.6 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	-2570 °C	
Ambient air temperature for storage	-5085 °C	
Relative humidity	095 %	
Operating altitude	02000 m without derating 2000 m5000 m with derating	

## Packing Units

r doming of the	
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	2.3845 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	15.1925 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	126.54 kg

### Offer Sustainability

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