C25W4TM160

Circuit breaker ComPacT NSX250HB2, 100kA at 690VAC, TMD trip unit 160A, 4 poles 4d





Main

Product name ComPacT NSX new generation Device short name NSX250HB2 Product or component type Circuit breaker Poevice application Distribution Poles description 4P Protected poles description Neutral position Left [In] rated current 160 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 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker mounting mode	Range	ComPacT new generation
Product or component type Device application 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 Ves conforming to EN/IEC 60947-2 Utilisation category Category A [Icu] rated ultimate short-circuit breaking capacity Performance level Trip unit name TM-D Trip unit technology Toggle Circuit breaker Toggle Circuit breaker Tip unit protection functions Control type Toggle Circuit breaker Tip unit breaker Tip Unit protection functions Control type Toggle Circuit breaker Tip Unit protection functions Circuit breaker	Product name	ComPacT NSX new generation
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Poles description 4P Protected poles description Neutral position Left [In] rated current 160 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 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 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 160 A at 40 °C [Ue] rated operational voltage Network type AC Network frequency Suitability for isolation Ves conforming to EN/IEC 60947-2 Utilisation category Category A [Icu] rated ultimate short-circuit breaking capacity Performance level Trip unit name TM-D Trip unit protection functions Control type Toggle Circuit breaker Tion A at 40 °C 160 A at 4	Device application	Distribution
Neutral position Left	Poles description	4P
[In] rated current 160 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 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	•	4D
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voltage 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 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions LI Control type Toggle Circuit breaker Fixed	[In] rated current	160 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 Category A 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 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 Capacity Deformance level Trip unit name TM-D Trip unit protection functions Control type Toggle Category A 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 V AC Trip unit protection functions Control type Toggle Circuit breaker Fixed	Network type	AC
Utilisation category [Icu] rated ultimate short-circuit breaking capacity 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Network frequency	50/60 Hz
[Icu] rated ultimate short-circuit breaking capacity Top unit rame Trip unit technology Trip unit protection functions Control type Toggle Circuit breaker Too KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 KA 690 V AC Trip unit name TM-D Trip unit protection functions Toggle Circuit breaker Toggle Tipul Trip Unit protection fixed	Suitability for isolation	Yes conforming to EN/IEC 60947-2
short-circuit breaking capacity 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB2 100 kA 690 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	60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to
Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Performance level	HB2 100 kA 690 V AC
Trip unit protection functions Control type Circuit breaker Toggle Circuit breaker Toggle	Trip unit name	TM-D
functions Control type Toggle Circuit breaker Fixed	Trip unit technology	Thermal-magnetic
Circuit breaker Fixed		LI
	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	100 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 660/690 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
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 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 ln 15 s at 6 x lr
Neutral protection settings	1 x lr (4D)
Instantaneous protection pick-up adjustment type li	Fixed
[li] 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	EAC[RETURN]Marine[RETURN]CCC
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

3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.0 cm
Package 1 Width	15.0 cm
Package 1 Length	20.0 cm
Package 1 Weight	2.7 kg
Unit Type of Package 2	S03
Number of Units in Package 2	3
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.1 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	€	

Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End Of Life Information
PVC free	Yes