

Product datasheet

Specifications



Circuit breaker ComPacT NSX100B,
25kA at 415VAC, TMD trip unit 80A,
4 poles 3d

C10B6TM080

Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX100B
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	3D
Neutral position	Left
[In] rated current	80 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 7 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2
--	---

Mechanical durability	50000 cycles
------------------------------	--------------

Electrical durability	50000 cycles at 440 V In/2 30000 cycles at 440 V In 20000 cycles at 690 V In/2 10000 cycles at 690 V In
------------------------------	--

Power dissipation per pole	8.77 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	80 A at 40 °C
-------------------------	---------------

Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
--	------------

[Ir] long-time protection pick-up adjustment range	0.7...1 x In
---	--------------

Long-time protection delay adjustment type tr	Fixed
--	-------

[Tr] long-time protection delay adjustment range	120...400 s at 1.5 x In 15 s at 6 x Ir
---	---

Neutral protection settings	No protection (3D)
------------------------------------	--------------------

Instantaneous protection pickup adjustment type li	Fixed
---	-------

[li] instantaneous protection pick-up adjustment range	640 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
-----------	-------

Product weight	2.4 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	-25...70 °C operation
-----------------------------	-----------------------

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	15.0 cm
------------------	---------

Package 1 Width	18.0 cm
-----------------	---------

Package 1 Length	18.0 cm
------------------	---------

Package 1 Weight	2.327 kg
------------------	----------

Unit Type of Package 2	S03
------------------------	-----

Number of Units in Package 2	6
------------------------------	---

Package 2 Height	30.0 cm
------------------	---------

Package 2 Width	30.0 cm
-----------------	---------

Package 2 Length	40.0 cm
------------------	---------

Package 2 Weight	15.902 kg
------------------	-----------

Offer Sustainability

Sustainable offer status	Green Premium product
--------------------------	-----------------------

REACH Regulation	REACH Declaration
------------------	-----------------------------------

EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
PVC free	Yes

Recommended replacement(s)

