

# Product datasheet

Specifications



circuit breaker ComPact NSXm E  
(16 kA at 415 VAC), 4P 3d, 80 A  
rating TMD trip unit, compression  
lugs and busbar connectors

LV426166

Discontinued

Discontinued on: 13 November 2022

End-of-service on: 26 October 2023

## Main

Range	ComPact
Product name	ComPact NSXm
Range of product	ComPact NSXm
Device short name	NSXm 80E
Product or component type	Circuit breaker
Device application	Protection Distribution
Number of poles	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	25 kA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 16 kA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	E 16 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	By screws Clip-on

## Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
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<b>[Uimp] rated impulse withstand voltage</b>	8 kV
<b>[Ics] rated service short-circuit breaking capacity</b>	25 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 16 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
<b>Mechanical durability</b>	20000 cycles
<b>Electrical durability</b>	10000 cycles at 440 V In 20000 cycles at 440 V In/2 5000 cycles at 690 V In 10000 cycles at 690 V In/2
<b>Mounting support</b>	Plate DIN rail
<b>Connection terminals</b>	compression lug/busbar
<b>Connection pitch</b>	35 mm with spreaders 27 mm without spreaders
<b>9 mm pitches</b>	12 module
<b>Protection type</b>	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
<b>Trip unit rating</b>	80 A at 40 °C
<b>Long-time pick-up adjustment type Ir (thermal protection)</b>	Adjustable
<b>[Ir] long-time protection pick-up adjustment range</b>	0.7...1 x In
<b>Long-time protection delay adjustment type tr</b>	Fixed
<b>[Im] magnetic protection pick-up range</b>	1000 A
<b>Earth-leakage protection</b>	Without
<b>Number of slots for electrical auxiliaries</b>	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
<b>Width (W)</b>	108 mm
<b>Height (H)</b>	137 mm
<b>Depth (D)</b>	80 mm
<b>Net weight</b>	1.42 kg
<b>Colour</b>	Grey (RAL 7016)

## Environment

<b>Standards</b>	EN/IEC 60947
<b>Product certifications</b>	CCC EAC Marine
<b>Pollution degree</b>	3 conforming to IEC 60664-1
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-50...85 °C
<b>Relative humidity</b>	0...95 %
<b>Operating altitude</b>	0...2000 m without derating 2000...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.7 cm
Package 1 Width	12.5 cm
Package 1 Length	22.0 cm
Package 1 Weight	1.572 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Recommended replacement(s)

LV426166 is replaced by:

1x



Circuit breaker, ComPacT NSXm 160E, 16kA/415VAC, 4 poles 3D (neutral not protected), TMD trip unit 80A, lugs/busbars  
C11E6TM080B