Product data sheet Characteristics

LV429931

circuit breaker VigiComPact NSX100F, 36 kA at 415 VAC, TM-D trip unit 80 A, add-on Vigi MH module, 3P 3d





Main

Main	
Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100250
Device short name	VigiCompact NSX100F
Product or component type	Circuit breaker with Vigi add-on
Device application	Distribution
Poles description	3P
Protected poles description	3t
[In] rated current	80 A at 40 °C
[Ue] rated operational voltage	440 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
Breaking capacity	10 KA at 600 V AC 50/60 Hz conforming to UL 508 25 KA at 480 V AC 50/60 Hz conforming to UL 508 85 KA at 240 V AC 50/60 Hz conforming to UL 508 22 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 8 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	F 36 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Mounting mode	Fixed

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Complementary

[Uimp] rated impulse withstand voltage [Ics] rated service breaking capacity [Ics] rated service breaking capacity [Ics] rated service breaking capacity 11 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 4 KA at 466/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 12.5 KA at 500 V	[Ui] rated insulation voltage	800 V AC 50/60 Hz
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Electrical durability 20000 Cycles at 690 V In 20000 Cycles at 490 V In 50000 Cycles at 440 V In	<u> </u>	11 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 4 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
20000 Cycles at 490 V In/2 30000 Cycles at 440 V In 50000 Cycles at 440 V In/2 Mounting support Backplate Upside connection Front Downside connection Front Connection pitch 35 Mm Protection type L: for overload protection (thermal) 1: for short-circuit protection (magnetic) Trip unit rating 80 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [Ir] long-time delay adjustment type Is A is 3 at 6.x Ir Short-time pick-up adjustment type Is Fixed [Isd] short-time pick-up adjustment type Fixed Earth-leakage protection With Earth-leakage protection With Earth-leakage protection class Class A Residual earth-leakage sensitity adjustment type Ioing-time delay adjustment type Adjustable 5 settings [Idn] residual earth-leakage sensitity adjustment type Adjustable 4 settings Number of slots Width 105 Mm Height 236 Mm Depth 86 Mm	Mechanical durability	50000 Cycles
Upside connection Front Downside connection Front Connection pitch 35 Mm Protection type L: for overload protection (thermal) 1: for short-circuit protection (magnetic) Trip unit rating 80 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x ln Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x ln 15 S at 6 x Ir Short-time pick-up adjustment type Is Fixed [lsd] short-time pick-up adjustment range 640 A Short-time delay adjustment type Fixed Earth-leakage protection With Earth-leakage protection With Earth-leakage protection class Class A Residual earth-leakage sensitity adjustment type Adjustable 5 settings I[Δη] residual earth-leakage sensitive adjustment type Adjustable 4 settings Number of slots 6 slot(s) Width 105 Mm Height 236 Mm Depth 86 Mm	Electrical durability	20000 Cycles at 690 V In/2 30000 Cycles at 440 V In
Downside connection Front Connection pitch 35 Mm Protection type L: for overload protection (thermal) 1: for short-circuit protection (magnetic) Trip unit rating 80 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd Fixed [lsd] short-time pick-up adjustment range 640 A Short-time delay adjustment type Fixed Earth-leakage protection With Earth-leakage protection With Earth-leakage add-on module name MH Earth-leakage sensitity adjustment type Adjustable 5 settings [l\(\text{I}\) and supplementation of slots Residual earth-leakage sensitive adjustment type Adjustable 4 settings Number of slots 6 slot(s) Width 105 Mm Depth 86 Mm	Mounting support	Backplate
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Residual earth-leakage time delay adjustment type Number of slots 6 slot(s) Width 105 Mm Height 236 Mm Depth 86 Mm	Residual earth-leakage sensitity adjustment type	Adjustable 5 settings
Number of slots 6 slot(s) Width 105 Mm Height 236 Mm Depth 86 Mm	$[I\Delta n]$ residual earth-leakage sensitive adjustment	0.0310 A
Width 105 Mm Height 236 Mm Depth 86 Mm	Residual earth-leakage time delay adjustment type	Adjustable 4 settings
Height 236 Mm Depth 86 Mm	Number of slots	6 slot(s)
Depth 86 Mm	Width	105 Mm
'	Height	236 Mm
Net weight 2.05 Kg	Depth	86 Mm
Net weight 2.00 Ng	Net weight	2.05 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 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

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	2.983 Kg	
Package 1 Height	14 Cm	
Package 1 width	19.5 Cm	
Package 1 Length	25.73 Cm	

Offer Sustainability

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

Contractual warranty

Warranty	18 months

Product Life Status:	End of commerc Block	
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