

# LV433287

circuit breaker ComPact NSX100R, 200 kA at 415 VAC, MicroLogic 6.2 E-M trip unit 80 A, 3 poles 3d



## Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250
Device short name	NSX100R
Product or component type	Circuit breaker
Device application	Motor
Number of poles	3P
Protected poles description	3t
[In] rated current	80 A at 65 °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	200 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 200 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 200 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 45 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	R 200 kA 415 V AC
Trip unit name	Micrologic 6.2 E-M
Trip unit technology	Electronic
Trip unit protection functions	LSIG
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	200 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 200 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 200 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 80 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 45 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	50000 cycles
Electrical durability	10000 Cycles at 690 V In 20000 Cycles at 690 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 (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection
Trip unit rating	80 A at 65 °C
Motor tripping class	5 30 20 10
Complementary motor protection	Stalled rotor Phase unbalance Protracted starting time Underload
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	35...80 A
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	10 S at 7.2 x Ir for trip class 10 120 S at 1.5 x Ir for trip class 5 20 S at 7.2 x Ir for trip class 20 240 S at 1.5 x Ir for trip class 10 26 S at 6 x Ir for trip class 20 480 S at 1.5 x Ir for trip class 20 5 S at 7.2 x Ir for trip class 5 13.5 S at 6 x Ir for trip class 10 6.5 S at 6 x Ir for trip class 5 30 S at 7.2 x Ir for trip class 30 38 S at 6 x Ir for trip class 30 720 s at 1.5 x Ir for trip class 30
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick-up adjustment range	5...13 x Ir
Short-time protection delay adjustment type tsd	Fixed
Instantaneous protection pick-up adjustment type li	Fixed
[li] instantaneous protection pick-up adjustment range	1200 A
Ground-fault protection pick-up adjustment type Ig	Adjustable 9 settings
[Ig] ground-fault protection pick-up adjustment range	0.2...1 x In Ig enable on/off
Ground-fault protection time delay adjustment type tg	Adjustable 5 settings
[tg] ground-fault protection time delay adjustment range	0...0.4 s
Earth-leakage protection	Without
Number of slots for electrical auxiliaries	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 95 % Ith (red) for temperature over set point
Display type	LCD display
Type of measurement	Energy meter
Communication of data	Power quality Demand current and power Time-stamped histories and event tables Protection and alarm settings Instantaneous and demand values Thermal image function Maximeters/Minimeters Phase sequence Maintenance indicators Energy metering
Width (W)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.05 kg

## Environment

Standards	EN/IEC 60947
Product certifications	EAC CCC 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	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

Package 1 Weight	1.890 kg
Package 1 Height	13.500 cm
Package 1 width	10.800 cm
Package 1 Length	19.200 cm

## Offer Sustainability

EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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