

LV433560

circuit breaker ComPact NSX250HB1, 75 kA at 690 VAC, MicroLogic 6.2 E-M trip unit 150 A, 3 poles 3d



Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250
Device short name	NSX250HB1
Product or component type	Circuit breaker
Device application	Motor
Number of poles	3P
Protected poles description	3t
[In] rated current	150 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	85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	HB1 75 kA 690 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	85 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	5000 Cycles at 690 V In 10000 Cycles at 690 V In/2 10000 Cycles at 440 V In 20000 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	150 A at 65 °C
Motor tripping class	30 20 10 5
Complementary motor protection	Phase unbalance Underload Protracted starting time Stalled rotor
Long-time pick-up adjustment type I_r (thermal protection)	Adjustable 9 settings
$[I_r]$ long-time protection pick-up adjustment range	70...150 A
Long-time protection delay adjustment type t_r	Adjustable
$[t_r]$ long-time protection delay adjustment range	10 S at $7.2 \times I_r$ for trip class 10 120 S at $1.5 \times I_r$ for trip class 5 20 S at $7.2 \times I_r$ for trip class 20 240 S at $1.5 \times I_r$ for trip class 10 26 S at $6 \times I_r$ for trip class 20 480 S at $1.5 \times I_r$ for trip class 20 5 S at $7.2 \times I_r$ for trip class 5 13.5 S at $6 \times I_r$ for trip class 10 6.5 S at $6 \times I_r$ for trip class 5 30 S at $7.2 \times I_r$ for trip class 30 38 S at $6 \times I_r$ for trip class 30 720 s at $1.5 \times I_r$ for trip class 30
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type I_{sd}	Adjustable
$[I_{sd}]$ Short-time protection pick-up adjustment range	5...13 $\times I_r$
Short-time protection delay adjustment type t_{sd}	Fixed
Instantaneous protection pick-up adjustment type I_i	Fixed
$[I_i]$ instantaneous protection pick-up adjustment range	2250 A
Ground-fault protection pick-up adjustment type I_g	Adjustable 9 settings
$[I_g]$ ground-fault protection pick-up adjustment range	0.2...1 $\times I_n$ I_g enable on/off
Ground-fault protection time delay adjustment type t_g	Adjustable 5 settings
$[t_g]$ 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 % lth (red) for temperature over set point
Display type	LCD display
Type of measurement	Energy meter
Communication of data	Maximeters/Minimeters Time-stamped histories and event tables Protection and alarm settings Demand current and power Energy metering Power quality Thermal image function Maintenance indicators Instantaneous and demand values Phase sequence
Width (W)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.4 kg

Environment

Standards	EN/IEC 60947
Product certifications	Marine CCC EAC
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	2.082 kg
Package 1 Height	1.350 dm
Package 1 width	1.080 dm
Package 1 Length	1.920 dm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU 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
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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