LV433316

circuit breaker ComPact NSX100HB1, 75 kA at 690 VAC, MicroLogic 6.2 E-M trip unit 50 A, 3 poles 3d





Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100250
Device short name	NSX100HB1
Product or component type	Circuit breaker
Device application	Motor
Number of poles	3P
Protected poles description	3t
[In] rated current	50 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
[lcu] 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	
[lcs] 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	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	50 A at 65 °C
Motor tripping class	10 5 20 30
Complementary motor protection	Stalled rotor Underload Phase unbalance Protracted starting time
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	2550 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	513 x lr
Short-time protection delay adjustment type tsd	Fixed
Instantaneous protection pick-up adjustment type li	Fixed
[li] instantaneous protection pick-up adjustment range	750 A
Ground-fault protection pick-up adjustment type Ig	Adjustable 9 settings
[lg] ground-fault protection pick-up adjustment range	0.31 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	00.4 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	Maximeters/Minimeters Protection and alarm settings Demand current and power Maintenance indicators Power quality Phase sequence Time-stamped histories and event tables Energy metering Thermal image function Instantaneous and demand values
VAN: HATE (VAN)	105 mm
VVIGIN (VV)	
Width (W) Height (H)	161 mm
Height (H) Depth (D)	161 mm 86 mm

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	-4085 °C
Relative humidity	095 %
Operating altitude	02000 m without derating 2000 m5000 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

Sustainable offer status	Green Premium product	
REACh Regulation	☑REACh Declaration	
EU RoHS Directive	Compliant EEU 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

Contractical Warranty		
Warranty	18 months	