Product datasheet
Characteristics

LV433555
circuit breaker Compact NSX250HB1, 85 kA at 500 VAC, Micrologic 6.2 E trip unit 100 A, 4 poles 4d

Main

Range	Compact
Product name	Compact NSX
Product or component type	Circuit breaker
Device short name	Compact NSX250HB1
Device application	Distribution
Poles description	4P
Protected poles description	4t 3t 3t + N/2 3t + OSN
Neutral position	Left
Network type	AC
Network frequency	50/60 Hz
[In] rated current	100 A at 40 °C
[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ue] rated operational voltage	690 V AC 50/60 Hz
Breaking capacity code	HB1 75 kA 690 V AC
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
[Ics] rated service 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
Suitability for isolation	Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 6.2 E
Trip unit technology	Electronic

Trip unit protection functions	LSIG
Pollution degree	3 conforming to IEC 60664-1

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Auxiliary contact composition	Without
Mechanical durability	20000 cycles
Electrical durability	10000 cycles 440 V In conforming to IEC 60947-2 10000 cycles 690 V In/2 conforming to IEC 60947-2 20000 cycles 440 V In/2 conforming to IEC 60947-2 5000 cycles 690 V In conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	LED 105 % Ir LED ready LED 90 % Ir
Neutral protection setting	0.5 x Ir (3t + N/2) 1 x Ir (4t) 1.6 x Ir (3t + OSN) No protection (3t)
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	100 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	40...100 A
Long time delay adjustment type	Adjustable
[Tr] long-time delay adjustment range	15…400 s at 1.5 x Ir 0.35…11 s at 7.2 x Ir 0.5…16 s at 6 x Ir
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable
[Isd] short-time pick-up adjustment range	1.5...15 x In
Short-time delay adjustment type	Adjustable 5 settings
[Tsd] short-time delay adjustment range	0…0.4 s
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...15 x In
Ground-fault pick-up adjustment type	Adjustable 9 settings
Ground-fault time delay adjustment type -tg	Adjustable 5 settings
[Tg] ground-fault time delay adjustment range	0…0.4 s
[Ig] ground-fault pick-up adjustment range	20…100 A
Zone selective interlocking ZSI	With
Communication of data	Time-stamped histories and event tables Demand current and power Protection and alarm settings Power quality Energy metering Instantaneous and demand values Maximeters/minimeters Maintenance indicators

Display type	LCD display
Type of measurement	Energy meter
Electrical data recording	Maintenance indicators
Height	161 mm
Width	140 mm
Depth	86 mm
Product weight	2.8 kg
Compatibility code	NSX250

Environment

Overvoltage category	Class II
Electrical shock protection class	Class II
Standards	EN/IEC 60947
Product certifications	EAC Marine CCC
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-35…70 °C
Ambient air temperature for storage	-55…85 °C

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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