C12H34V160B

Circuit breaker ComPacT NSXm H (70kA at 415VAC), 3 Poles 3d, 160A rating Micrologic 4.1 trip unit, lugs and busbar connectors





Main

Range	ComPacT new generation
Product name	ComPacT NSXm new generation
Range of product	ComPacT NSXm new generation
Device short name	NSXm 160H
Product or component type	Earth leakage circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	160 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 IEC 60947-2
Suitability for isolation Utilisation category	Yes conforming to IEC 60947-2 Category A
Utilisation category [Icu] rated ultimate short-circuit breaking	Category A 100 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC
Utilisation category [Icu] rated ultimate short-circuit breaking capacity	Category A 100 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
Utilisation category [Icu] rated ultimate short-circuit breaking capacity Performance level	Category A 100 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 H 70 kA 415 V AC
Utilisation category [Icu] rated ultimate short-circuit breaking capacity Performance level Trip unit name	Category A 100 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 H 70 kA 415 V AC MicroLogic 4.1
Utilisation category [Icu] rated ultimate short-circuit breaking capacity Performance level Trip unit name Trip unit technology Trip unit protection	Category A 100 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 H 70 kA 415 V AC MicroLogic 4.1 Electronic
Utilisation category [Icu] rated ultimate short-circuit breaking capacity Performance level Trip unit name Trip unit technology Trip unit protection functions	Category A 100 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 H 70 kA 415 V AC MicroLogic 4.1 Electronic LSoIR

Complementary

[Ui] rated insulation voltage	500 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[lcs] rated service short-circuit breaking capacity	100 KA at 220240 V AC 50/60 Hz conforming to IEC 60947-2 70 KA at 380415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	20000 Cycles at 440 V In/2 10000 Cycles at 440 V In 10000 Cycles at 690 V In/2 5000 cycles at 690 V In
Power dissipation per pole	12.21 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front

Connection terminals	Compression lug/busbar
Connection pitch	35 Mm with spreaders 27 mm without spreaders
9 mm pitches	9 module
Trip unit rating	160 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	63160 A
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay adjustment range	200 S at 1.5 x lr 8 S at 6 x lr 5 s at 7.2 x lr
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable 9 settings
[Isd] Short-time protection pick-up adjustment range	1.510 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	2000 A
Earth-leakage protection	Integrated
Earth-leakage protection class	Class AC
Earth-leakage protection sensitity adjustment type $\ensuremath{I}\Delta n$	Adjustable
[IΔn] earth-leakage protection sensitivity adjustment range	30 MA 100 MA 300 MA 500 MA 1 A 3 A 5 A
Earth-leakage sensitivity	30 MA for class A 100 MA for class A 300 MA for class A 500 MA for class A 1 A for class A 30 MA for class AC 100 MA for class AC 300 MA for class AC 300 MA for class AC 301 MA for class AC 302 MA for class AC 503 MA for class AC 504 A for class AC 505 A for class AC
Earth-leakage protection time delay adjustement type Δt	Adjustable
[Δt] Earth-leakage protection time delay adjustment range	0 Ms 60 Ms 150 Ms 500 Ms 1000 ms
Number of slots for electrical auxiliaries	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
Local signalling	Flag (green) for presence of auxiliary contacts
Width (W)	108 mm
Height (H)	144 mm
Depth (D)	80 mm
Net weight	1.63 kg
Colour	Grey (RAL 7016)

Environment

EN/IEC 60947
3 conforming to IEC 60664-1
IP40 conforming to IEC 60529
IK07 conforming to IEC 62262
-2570 °C
-4085 °C
095 %
2000 m without derating 5000 m with derating

Packing Units

3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.0 cm
Package 1 Width	16.0 cm
Package 1 Length	19.0 cm
Package 1 Weight	1.2 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.241 kg

Offer Sustainability

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Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
Halogen content performance	Halogen free plastic parts product