

LV430775

circuit breaker Compact NSX160N - Micrologic
2.2 - 160 A - 3 poles 3d



Main

Circuit breaker name	Compact NSX160N
Circuit breaker application	Distribution
Circuit breaker rating code	N
[In] rated current	160 A (40 °C)
Poles description	3P
Protected poles description	3t
Breaking capacity	Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 Icu 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 90 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 50 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 20 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 85 kA at 240 V AC 50/60 Hz conforming to UL 508 50 kA at 480 V AC 50/60 Hz conforming to UL 508 10 kA at 600 V AC 50/60 Hz conforming to UL 508
[Ics] rated service breaking capacity	Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 36 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 90 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Trip unit name	Micrologic 2.2
Trip unit protection functions	LI
Trip unit technology	Electronic
Trip unit rating	160 A (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
Suitability for isolation	Yes conforming to IEC 60947-2 Yes conforming to EN 60947-2
Utilisation category	Category A
Pollution degree	3 conforming to IEC 60947-1
Network type	AC
Network frequency	50/60 Hz

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Protection type	Instantaneous short-circuit protection Overload protection (long time) Short time short-circuit protection
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Complementary

Mounting mode	Fixed
Upside connection	Front
Downside connection	Front
Control type	Toggle
Mounting support	Backplate
Local signalling	LED 105 % I _r LED 90 % I _r LED ready
Mechanical durability	40000 cycles
Electrical durability	10000 cycles 440 V I _n /2 conforming to IEC 60947-2 20000 cycles 440 V I _n conforming to IEC 60947-2 15000 cycles 690 V I _n /2 conforming to IEC 60947-2 7500 cycles 690 V I _n conforming to IEC 60947-2
Long time pick-up adjustment type I _r	Adjustable 9 settings
Long time pick-up adjustment range	0.9...1 x I _o
Long time delay adjustment type	Fixed
[T _r] long-time delay adjustment	11 s 7.2 x I _r 16 s 6 x I _r 400 s 1.5 x I _r
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type I _{sd}	Adjustable
[I _{sd}] short-time pick-up adjustment range	1.5...10 x I _r
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type I _i	Fixed
Instantaneous pick-up adjustment range	2400 A
Connection pitch	35 mm
Height	161 mm
Width	105 mm
Depth	86 mm

Environment

Electrical shock protection class	Class II
Standards	EN 60947-2 IEC 60947-2 NEMA AB1 UL 508
Product certifications	CSA UL
IK degree of protection	IK07 conforming to EN 50102
IP degree of protection	IP40 conforming to IEC 60529
Ambient air temperature for operation	-35...70 °C
Ambient air temperature for storage	-55...85 °C
RoHS EUR conformity date	0819
RoHS EUR status	Compliant