Product data sheet
Characteristics

LV431771
circuit breaker Compact NSX250F - Micrologic 2.2 - 160 A - 3 poles 3d

Main

Device short name	Compact NSX250F
Circuit breaker application	Distribution
Poles description	3P
Protected poles description	3t
Network type	AC
Network frequency	50/60 Hz
[In] rated current	250 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
Circuit breaker rating code	F
Breaking capacity	Icu 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 Icu 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 35 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 35 kA at 480 V AC 50/60 Hz conforming to UL 508 15 kA at 600 V AC 50/60 Hz conforming to UL 508
[Ics] rated service breaking capacity	Ics 8 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 22 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 30 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 35 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 36 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 85 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2 Yes conforming to EN 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 2.2
Trip unit technology	Electronic
Trip unit protection functions	LSoI
Trip unit rating	160 A (40 °C)

Protection type	Instantaneous short-circuit protection Overload protection (long time) Short time short-circuit protection
Pollution degree	3 conforming to IEC 60947-1

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	20000 cycles
Electrical durability	20000 cycles 440 V In/2 conforming to IEC 60947-2 10000 cycles 440 V In conforming to IEC 60947-2 10000 cycles 690 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 90 % Ir LED ready
Long time pick-up adjstment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	0.9...1 x Io
Long time delay adjustment type	Fixed
[Tr] long-time delay adjustment	11 s 7.2 x Ir 16 s 6 x Ir 400 s 1.5 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...10 x Ir
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	2400 A
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
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