

LV432878

circuit breaker Compact NSX630F - Micrologic 5.3 A - 630 A - 3 poles 3d



Main

Circuit breaker name	Compact NSX630F
Device short name	Compact NSX630F
Circuit breaker application	Distribution
Poles description	3P
Protected poles description	3t
Network type	AC
Network frequency	50/60 Hz
[In] rated current	630 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	20 kA conforming to UL 508 at 600 V AC 50/60 Hz 30 kA conforming to NEMA AB1 at 480 V AC 50/60 Hz 35 kA conforming to UL 508 at 480 V AC 50/60 Hz 40 kA conforming to NEMA AB1 at 240 V AC 50/60 Hz 85 kA conforming to UL 508 at 240 V AC 50/60 Hz 10 kA Icu conforming to IEC 60947-2 at 660/690 V AC 50/60 Hz 20 kA Icu conforming to IEC 60947-2 at 525 V AC 50/60 Hz 25 kA Icu conforming to IEC 60947-2 at 500 V AC 50/60 Hz 30 kA Icu conforming to IEC 60947-2 at 440 V AC 50/60 Hz 36 kA Icu conforming to IEC 60947-2 at 380/415 V AC 50/60 Hz 40 kA Icu conforming to IEC 60947-2 at 220/240 V AC 50/60 Hz
[Ics] rated service breaking capacity	Ics 10 kA conforming to IEC 60947-2 525 V AC 50/60 Hz Ics 10 kA conforming to IEC 60947-2 660/690 V AC 50/60 Hz Ics 25 kA conforming to IEC 60947-2 500 V AC 50/60 Hz Ics 30 kA conforming to IEC 60947-2 440 V AC 50/60 Hz Ics 36 kA conforming to IEC 60947-2 380/415 V AC 50/60 Hz Ics 40 kA conforming to IEC 60947-2 220/240 V AC 50/60 Hz
Suitability for isolation	Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 5.3 A
Trip unit technology	Electronic
Trip unit protection functions	LSI
Trip unit rating	630 A (40 °C)

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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	15000 cycles
Electrical durability	2000 cycles conforming to IEC 60947-2 690 V In 4000 cycles conforming to IEC 60947-2 440 V In 6000 cycles conforming to IEC 60947-2 690 V In/2 8000 cycles conforming to IEC 60947-2 440 V In/2
Connection pitch	45 mm
Local signalling	LED 105 % I _r LED 90 % I _r LED ready
Long time pick-up adjustment type I _r	Adjustable
Long time pick-up adjustment range	225...630 A
Long time delay adjustment type	Adjustable
[T _r] long-time delay adjustment	15...400 s 1.5 x I _r 0.35...11 s 7.2 x I _r 0.5...16 s 6 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	Adjustable
[T _{sd}] short-time delay adjustment range	0...0.4 s
Instantaneous pick-up adjustment type I _i	Adjustable
Instantaneous pick-up adjustment range	1.5...11 x I _n
Zone selective interlocking ZSI	With
Communication of data	Demand current and power Energy metering Instantaneous and demand values Maintenance indicators Maximeters/Minimeters Power quality Protection and alarm settings Time-stamped histories and event tables
Display type	LCD display
Type of measurement	Ammeter
Electrical data recording	Maintenance indicators
Height	255 mm
Width	140 mm
Depth	110 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