



Main

Range	Compact
Range of product	Compact NS100...630
Product or component type	Circuit breaker
Product name	Compact NS
Device short name	Compact NS100SX
Circuit breaker name	Compact NS100SX
Device application	Distribution
Poles description	4P
Protected poles description	3t + N/2 3t 4t
Neutral position	Left
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	100 A 65 °C 100 A 40 °C
[U _i] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[U _{imp}] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[U _e] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2 750 V DC conforming to IEC 60947-2
Breaking capacity code	SX
Breaking capacity	50 kA I _{cu} at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 kA I _{cu} at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA I _{cu} at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA I _{cu} at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 36 kA I _{cu} at 500 V AC 50/60 Hz conforming to IEC 60947-2 90 kA I _{cu} at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
[I _{cs}] rated service breaking capacity	I _{cs} 18 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 I _{cs} 5 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 I _{cs} 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 I _{cs} 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 I _{cs} 90 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 I _{cs} 17.5 kA 525 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Trip unit name	STR22SE
Trip unit technology	Electronic
Trip unit rating	100 A (20 °C) 90 A (70 °C) 95 A (60 °C)
Protection type	Overload protection (long time) Instantaneous short-circuit protection Short time short-circuit protection
Pollution degree	3 conforming to IEC 60947

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	50000 cycles
Electrical durability	30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 50000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Neutral protection setting	No protection 0.5 x Ir 1 x Ir
Long time pick-up adjustment type Ir	Adjustable 48 settings
Long time pick-up adjustment range	0.4...1 x In
Long time delay adjustment type	Fixed
[Tr] long-time delay adjustment range	90...180 s 1.5 x Ir 3.2...5 s 7.2 x Ir 5...7.5 s 6 x Ir
Short-time pick-up adjustment type I _{sd}	Adjustable 8 settings
[I _{sd}] short-time pick-up adjustment range	2...10 x Ir
Short-time delay adjustment type	Fixed
[T _{sd}] short-time delay adjustment range	0.04...0.06 s
Instantaneous pick-up adjustment type I _i	Fixed
Instantaneous pick-up adjustment range	>= 11 x In
Display type	LED
Height	161 mm
Width	140 mm
Depth	86 mm
Compatibility code	NS250

Environment

Standards	IEC 60947-2
Product certifications	ASTA ASEFA LCIE KEMA
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C

Contractual warranty

Warranty period	18 months
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Product Life Status

END-OF-SALE NOTICE

35975