Product datasheet

Specifications

circuit breaker Compact NS400N - STR53UE - 250 A - 4 poles 4d

32714

Discontinued

Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS400N
Circuit breaker name	Compact NS400N
Device application	Distribution
Poles description	4P
Protected poles description	3t 3t + N/2 4t
Neutral position	Left
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	400 A at 40 °C 320 A at 65 °C
[Ui] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ue] 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	N
Breaking capacity	85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	STR53UE F
Trip unit technology	Electronic
Trip unit rating	250 A

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

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Circuit breaker CT rating	250 A
Mechanical durability	15000 cycles
Electrical durability	12000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 6000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2
Connection pitch	45 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	Adjustable
[tr] long-time delay adjustment range	12…16 s 6 x Ir 138…200 s 1.5 x Ir 277…400 s 1.5 x Ir 3…4 s 6 x Ir 34…50 s 1.5 x Ir 6…8 s 6 x Ir 69…100 s 1.5 x Ir 8…15 s 1.5 x Ir 0.2…0.74 s 7.2 x Ir 0.4…0.5 s 6 x Ir 1…1.4 s 7.2 x Ir 1.5…2 s 6 x Ir 2…2.8 s 7.2 x Ir 4…5.5 s 7.2 x Ir 8.2…11 s 7.2 x Ir
Short-time pick-up adjustment type Isd	Adjustable 8 settings
[Isd] short-time pick-up adjustment range	1.5...10 x Ir
Short-time delay adjustment type	Adj 4 setgs + const I^2t option
[tsd] short-time delay adjustment range	0.06…0.14 s 0.14…0.23 s 0.23…0.35 s 0.015…0.06 s
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...11 x In
Display type	LED
Height	255 mm
Width	185 mm

Depth	110 mm

Environment

Standards	IEC 60947-2
Product certifications	LCIE KEMA ASEFA ASTA
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

Lifetime extension

Repair	No