Product datasheet

Specifications

circuit breaker Compact NS630H - STR53UE - 630 A - 4 poles 4d

32902

Discontinued

Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS630H
Circuit breaker name	Compact NS630H
Device application	Distribution
Poles description	4P
Protected poles description	3t 4t 3t + N/2
Neutral position	Left
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	500 A at 65 °C 630 A at 40 °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	H
Breaking capacity	100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 220/240 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	630 A

Protection type	Instantaneous short-circuit protection Protection of the fourth pole Short time short-circuit protection Overload protection (long time)
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	630 A
Mechanical durability	15000 cycles
Electrical durability	4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 8000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	45 mm
Local signalling	Positive contact indication
Neutral protection setting	No protection 1 x Ir 0.5 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	0.015…0.06 s 0.06…0.14 s 0.23…0.35 s 0.14…0.23 s
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...11 x In
Zone selective interlocking ZSI	With
Display type	LED
Height	255 mm

Width	185 mm
Depth	110 mm

Environment

Standards	IEC 60947-2
Product certifications	LCIE ASEFA ASTA 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 (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

Use Again

Repack and remanufacture

WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins