



Main

Device short name	Compact NS800H
Circuit breaker name	Compact NS800H
Circuit breaker application	Distribution
Poles description	3P
Protected poles description	3t
Network type	AC
Circuit breaker rating code	H
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category B
Trip unit name	Micrologic 2.0
Trip unit technology	Electronic

Complementary

Network frequency	50/60 Hz
Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate Rail
Upside connection	Front
Downside connection	Front
[In] rated current	800 A (50 °C)
[Ui] rated insulation voltage	800 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
Circuit breaker CT rating	800 A
Breaking capacity	50 kA at 480 V AC 60 Hz conforming to NEMA AB1 HIC 50 kA at 600 V AC 60 Hz conforming to NEMA AB1 HIC 65 kA at 240 V AC 60 Hz conforming to NEMA AB1 HIC Icu 42 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 Icu 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 70 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	Ics 31.5 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 37.5 kA 500/525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 48.75 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 52.5 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Ics 52.5 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	10000 cycles
Electrical durability	2000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2 4000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2 5000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 6000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Local signalling	Positive contact indication
[Icw] rated short-time withstand current	19.2 kA
Protection type	Instantaneous short-circuit protection Overload protection (long time)
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.4...1 x In
Long time delay adjustment type	Adjustable 9 settings
[tr] long-time delay adjustment	0.7...16.6 s 7.2 x Ir 0.7...24 s 6 x Ir 12.5...600 s 1.5 x Ir

Thermal memory	20 mn
Instantaneous pick-up adjustment type li	Adjustable
Instantaneous pick-up adjustment range	1.5...10 x Ir
Integral instant protection	40 kA
Height	327 mm
Width	210 mm
Depth	147 mm

Environment

Standards	IEC 60947-2 NEMA AB1 HIC
Product certifications	ASEFA ASTA
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Pollution degree	3 conforming to IEC 60947
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C