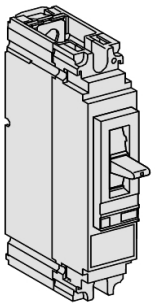
Product datasheet

Specifications



MOLDED CASE CB 690V NS100N TM80D

29581

Discontinued

Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS100N
Circuit breaker name	Compact NS100N
Device application	Distribution
Poles description	1P
Protected poles description	1t
Network type	AC DC
Network frequency	50/60 Hz
[In] rated current	100 A at 40 °C 100 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	250 V DC conforming to IEC 60947-2 277 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	N
Breaking capacity	25 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 25 kA at 277 V AC 50/60 Hz conforming to NEMA AB1 HIC 25 kA Icu at 220 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 277 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 250 V DC 1P conforming to IEC 60947-2 50 kA Icu at 48/125 V DC 1P conforming to IEC 60947-2
[Ics] rated service breaking capacity	25 kA at 220 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 277 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 250 V DC conforming to IEC 60947-2 50 kA at 48/125 V DC conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit rating	80 A at 40 °C
Protection type	Short-circuit protection (magnetic) Overload protection (thermal)
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	20000 cycles
Electrical durability	10000 cycles 277 V AC 50/60 Hz In conforming to IEC 60947-2 20000 cycles 277 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Magnetic tripping current	800 A 1000 A 190 A 260 A 640 A 1250 A 500 A 300 A
Long time pick-up adjustment type Ir	Fixed
Long time pick-up adjustment range	0.8...1 x In
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	640 A
Height	161 mm
Width	35 mm
Depth	86 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