

Product data sheet

Characteristics

33410

circuit breaker basic frame, ComPact
NS 1600N, 50 kA at 415 VAC, 1600 A,
withdrawable, electrically operated, without trip
unit, 3 P



Main

Range	ComPact
Range of product	ComPact NS630b...1600
Device short name	Compact NS1600N
Product or component type	Basic frame
Device application	Distribution
Number of poles	3P
[In] rated current	1600 A at 50 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category B
[Icu] rated ultimate short-circuit breaking capacity	30 KA Icu at 660/690 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 50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 40 KA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	N 50 kA 415 V AC
Control type	Motor mechanism Motor mechanism with external connector
Mounting mode	Drawout

Complementary

[Ui] rated insulation voltage	1000 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	30 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation) 22 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation) 37 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation) 37 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation) 37 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation)
[Icw] rated short-time withstand current	19.2 kA 1 s conforming to IEC 60947-2
Integral instant protection	40 kA
Mechanical durability	10000 cycles conforming to IEC 60947-2
Electrical durability	5000 Cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 1000 Cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2 2000 Cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 2000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Power losses	154 W
Mounting support	Backplate
Connection pitch	70 mm
Protection type	Without protection

Height (H)	327 mm
Width (W)	210 mm
Depth (D)	147 mm

Environment

Standards	IEC 60947-2
Product certifications	ASTA LCIE ASEFA
Pollution degree	3 conforming to IEC 60947
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

Package 1 Weight	23.869 kg
Package 1 Height	2.500 dm
Package 1 width	4.000 dm
Package 1 Length	4.000 dm

Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Contractual warranty

Warranty	18 months
----------	-----------