Product datasheet





circuit breaker ComPact NS1600N, 50 kA at 415 VAC, Micrologic 5.0 trip unit, 1600 A, fixed,3 poles 3d

Local distributor code: 383426482

33568

! To be discontinued

! To be discontinued on: 14 Jun 2024

EAN Code: 3303430335689

Main

Range	ComPact	
Product Name	ComPact NS	
Range Of Product	ComPact NS630b1600	
Device Short Name	Compact NS1600N	
Product Or Component Type	Circuit breaker	
Device Application	Distribution	
Number Of Poles	3P	
Protected Poles Description	3D	
(In) Rated Current Up To 65 °C	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 85 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	
Trip Unit Name	MicroLogic 5.0	
Trip Unit Technology	Electronic	
Trip Unit Protection Functions	LSI	
Control Type	Rotary handle Toggle	
Circuit Breaker Mounting Mode	Fixed	

Complementary

[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

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[Ics] Rated Service Short-Circuit Breaking Capacity	30 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 37 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 37 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 22 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 37 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
[Icw] Rated Short-Time Withstand Current	19.2 kA 1 s conforming to IEC 60947-2
Mechanical Durability	10000 cycles
Electrical Durability	1000 cycles at 690 V In 2000 cycles at 690 V In/2 2000 cycles at 440 V In 5000 cycles at 440 V In/2
Power Losses	74 W
Mounting Support	Backplate
Upside Connection	Front
Downside Connection	Front
Connection Pitch	70 mm
Protection Type	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection
Trip Unit Rating	1600 A at 50 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	0.41 x ln
Long-Time Protection Delay Adjustment Type Tr	Adjustable 9 settings
[Tr] Long-Time Protection Delay Adjustment Range	12.5600 s at 1.5 x lr 0.524 s at 6 x lr 0.716.6 s at 7.2 x lr
Thermal Memory	20 mn
Short-Time Protection Pick-Up Adjustment Type Isd	Adjustable 9 settings
[Isd] Short-Time Protection Pick- Up Adjustment Range	1.510 x lr
Short-Time Protection Delay Adjustment Type Tsd	Adjustable
[Tsd] Short-Time Protection Delay Adjustment Range	0.10.4 s l²t=on 00.4 s l²t=off
Instantaneous Protection Pick-Up Adjustment Type Ii	Adjustable
[li] Instantaneous Protection Pick- Up Adjustment Range	Off 215 x ln
Earth-Leakage Protection	Without
Zone Selective Interlocking Zsi	Without
Auxiliary Contact Composition	1 NO/NC
Local Signalling	4 LEDs (red) for fault indication 1 LED (yellow) for overload
Width (W)	210 mm
Height (H)	327 mm
Depth (D)	147 mm
Sopul (b)	

Environment

Standards EN/IEC 60947-2

Product Certifications	ASEFA ASTA
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	-2570 °C
Ambient Air Temperature For Storage	-5085 °C
Relative Humidity	095 %
Operating Altitude	02000 m without derating 2000 m5000 m with derating

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	30.000 cm
Package 1 Width	40.000 cm
Package 1 Length	60.000 cm
Package 1 Weight	14.141 kg
Unit Type Of Package 2	P12
Number Of Units In Package 2	4
Package 2 Height	45.000 cm
Package 2 Width	80.000 cm
Package 2 Length	120.000 cm
Package 2 Weight	71.164 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information