

Product data sheet

Characteristics

33571

circuit breaker ComPact NS1600H, 70 kA
at 415 VAC, Micrologic 5.0 trip unit, 1600 A,
fixed, 4 poles 4d



Main

Range	ComPact
Product name	ComPact NS
Range of product	ComPact NS630b...1600
Device short name	ComPact NS1600H
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	4P
Protected poles description	4d
Neutral position	Left
(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	42 KA Icu at 660/690 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 85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	H 70 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
[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

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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	0.4...1 x In
Long-time protection delay adjustment type tr	Adjustable 9 settings
[tr] long-time protection delay adjustment range	12.5...600 S at 1.5 x Ir 0.5...24 S at 6 x Ir 0.7...16.6 s at 7.2 x Ir
Thermal memory	20 mn
Short-time protection pick-up adjustment type lsd	Adjustable 9 settings
[lsd] Short-time protection pick-up adjustment range	1.5...10 x Ir
Short-time protection delay adjustment type tsd	Adjustable
[tsd] Short-time protection delay adjustment range	0.1...0.4 S l ² t=on 0...0.4 s l ² t=off
Instantaneous protection pick-up adjustment type li	Adjustable
[li] instantaneous protection pick-up adjustment range	2...15 x In Off
Earth-leakage protection	Without
Neutral protection settings	No protection (3d) 0.5 x Ir (3d + N/2) 1 x Ir (4d)
Auxiliary contact composition	1 NO/NC
Local signalling	4 LEDs (red) for fault indication 1 LED (yellow) for overload
Width (W)	280 mm
Height (H)	327 mm
Depth (D)	147 mm
Net weight	18 kg

Environment

Standards	EN/IEC 60947-2
Product certifications	ASTA 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
Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Package 1 Weight	16.961 kg
Package 1 Height	37.000 cm
Package 1 width	38.000 cm
Package 1 Length	30.000 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
EU RoHS Directive	Compliant <input checked="" type="checkbox"/> EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	<input checked="" type="checkbox"/> Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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