

# Product datasheet

Specifications



## Circuit breaker, ComPacT NS1600N, 50kA at 415VAC, 3P, fixed, manually operated, MicroLogic 2.0 control unit, 1600A

C160N320FM

### Main

<b>Range</b>	ComPacT
<b>Product name</b>	ComPacT NS new generation
<b>Range of product</b>	ComPacT NS630b...1600 new generation
<b>Product or component type</b>	Circuit breaker
<b>Device application</b>	Distribution
<b>Number of poles</b>	3P
<b>Protected poles description</b>	3D
<b>(In) rated current up to 65 °C</b>	1600 A at 50 °C
<b>[Ue] rated operational voltage</b>	690 V AC 50/60 Hz
<b>Network type</b>	AC
<b>Network frequency</b>	50/60 Hz
<b>Suitability for isolation</b>	Yes conforming to EN/IEC 60947-2
<b>Utilisation category</b>	Category B
<b>[Icu] rated ultimate short-circuit breaking capacity</b>	85 kA Icu at 220/240 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 40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
<b>Performance level</b>	N 50 kA 415 V AC
<b>Trip unit name</b>	MicroLogic 2.0
<b>Trip unit technology</b>	Electronic
<b>[Ics] rated service short-circuit breaking capacity</b>	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 37 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500/525 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

<b>Trip unit protection functions</b>	LI
<b>Control type</b>	Manually operated
<b>Mounting mode</b>	Fixed
<b>Complementary</b>	
<b>[Ui] rated insulation voltage</b>	800 V AC 50/60 Hz conforming to IEC 60947-2
<b>[Uimp] rated impulse withstand voltage</b>	8 kV conforming to IEC 60947-2
<b>[Icw] rated short-time withstand current</b>	19.2 kA 1 s conforming to IEC 60947-2
<b>Mechanical durability</b>	10000 cycles
<b>Electrical durability</b>	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
<b>Power losses</b>	74 W
<b>Mounting support</b>	Backplate
<b>Upside connection</b>	Front
<b>Downside connection</b>	Front
<b>Connection pitch</b>	70 mm
<b>Protection type</b>	L : for overload protection (long time) I : for instantaneous short-circuit protection
<b>Trip unit rating</b>	1600 A at 50 °C
<b>Long-time pick-up adjustment type Ir (thermal protection)</b>	Adjustable 9 settings
<b>[Ir] long-time protection pick-up adjustment range</b>	0.4...1 x In
<b>Long-time protection delay adjustment type tr</b>	Adjustable 9 settings
<b>[Tr] long-time protection delay adjustment range</b>	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
<b>Thermal memory</b>	20 mn
<b>Instantaneous protection pickup adjustment type Ii</b>	Adjustable
<b>[Ii] instantaneous protection pick-up adjustment range</b>	1.5...10 x Ir
<b>Earth-leakage protection</b>	Without
<b>Zone selective interlocking ZSI</b>	Without
<b>Auxiliary contact composition</b>	1 NO/NC
<b>Local signalling</b>	4 LEDs (red) for fault indication 1 LED (yellow) for overload
<b>Width (W)</b>	210 mm

<b>Height (H)</b>	327 mm
<b>Depth (D)</b>	147 mm
<b>Product weight</b>	14 kg

## Environment

<b>Standards</b>	EN/IEC 60947-2
<b>Product certifications</b>	IECEE CB Scheme
<b>Pollution degree</b>	3 conforming to IEC 60947
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>IK degree of protection</b>	IK07 conforming to EN 50102
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-50...85 °C
<b>Relative humidity</b>	0...95 %
<b>Operating altitude</b>	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	30.000 cm
<b>Package 1 Width</b>	40.000 cm
<b>Package 1 Length</b>	60.000 cm
<b>Package 1 Weight</b>	13.972 kg

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins