

# Product datasheet

Specifications



trip unit MicroLogic 7.2 E AL for  
ComPacT NSX 160/250 circuit  
breakers, electronic, rating 160A, 4  
poles 4d

C1647A160

EAN Code: 3606481994028

## Main

Range	ComPacT new generation
Range of product	ComPacT NSX100...250
Product or component type	Trip unit
Trip unit name	MicroLogic 7.2 E AL
Trip unit technology	Electronic
Range compatibility	ComPacT NSX160 ComPacT NSX250
Device application	Distribution
Poles description	4P
Protected poles description	3D + N/2 4D 3D
Neutral position	Left
Trip unit protection functions	LSI
Protection type	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection
Trip unit rating	160 A at 40 °C
[Ue] rated operational voltage	440 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Circuit breaker mounting mode	Fixed

## Complementary

Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	63...160 A
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	15...400 s at 1.5 x Ir 0.35...11 s at 7.2 x Ir 0.5...16 s at 6 x Ir
Neutral protection settings	0.5 x Ir (3D + N/2) 1 x Ir (4D) No protection (3D)
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable

<b>[I<sub>sd</sub>] Short-time protection pick-up adjustment range</b>	1.5...10 x I <sub>r</sub>
<b>Short-time protection delay adjustment type t<sub>sd</sub></b>	Adjustable
<b>[t<sub>sd</sub>] Short-time protection delay adjustment range</b>	0...0.4 s I <sup>2</sup> t=off 0.1...0.4 s I <sup>2</sup> t=on
<b>Instantaneous protection pick-up adjustment type I<sub>i</sub></b>	Adjustable
<b>[I<sub>i</sub>] instantaneous protection pick-up adjustment range</b>	1.5...15 x I <sub>n</sub>
<b>Earth-leakage protection</b>	Integrated
<b>Earth-leakage protection class</b>	Class A
<b>Earth-leakage protection sensitivity adjustment type I<math>\Delta</math>n</b>	Adjustable
<b>[I<math>\Delta</math>n] earth-leakage protection sensitivity adjustment range</b>	0.03 A 0.1 A 0.3 A 0.5 A 1 A 3 A 5 A
<b>Earth-leakage protection specific mode</b>	OFF using the I $\Delta$ n rotary switch
<b>Earth-leakage protection time delay adjustment type <math>\Delta</math>t</b>	Adjustable
<b>[<math>\Delta</math>t] Earth-leakage protection time delay adjustment range</b>	0 ms 60 ms 150 ms 500 ms 1 s
<b>Zone selective interlocking ZSI</b>	Without
<b>Local signalling</b>	Flashing LED (green) for ready to operate LED 105 % I <sub>r</sub> (red) for overload LED 90 % I <sub>r</sub> (orange) for overload
<b>Display type</b>	LCD display
<b>Type of measurement</b>	Energy meter
<b>Communication of data</b>	Energy metering Maintenance indicators Time-stamped histories and event tables Protection and alarm settings Instantaneous and demand values Test reports Power quality Earth leakage current Maximeters/minimeters Demand current and power

## Environment

<b>Standards</b>	EN/IEC 60947-2
<b>Electrical shock protection class</b>	Class II
<b>Pollution degree</b>	3 conforming to IEC 60947-1
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

Package 1 Height	10.0 cm
Package 1 Width	11.0 cm
Package 1 Length	15.0 cm
Package 1 Weight	792.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.321 kg

## Logistical informations

Country of origin	CN
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## Contractual warranty

Warranty	18 months
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## 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 >](#)

### Environmental footprint

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) 51

Environmental Disclosure [Product Environmental Profile](#)

### Use Better

#### Materials and Substances

Recycled metal content at CR level 0

[EU RoHS Directive](#) Compliant with Exemptions

REACH Regulation [REACH Declaration](#)

Halogen content performance Product contains halogen above thresholds

Silicon free No

### Use Longer

#### Lifetime extension

Upgradeability Yes

### Use Again

#### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

WEEE  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins