

Product data sheet

Characteristics

C080L320FM

Circuit breaker, ComPacT NS800L, 150kA at 415VAC, 3P, fixed, manually operated, MicroLogic 2.0 control unit, 800A



Main

Range	ComPacT
Product name	ComPacT NS new generation
Range of product	ComPacT NS630b...1600 new generation
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	3P
Protected poles description	3D
(In) rated current up to 65 °C	800 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 A
[Icu] rated ultimate short-circuit breaking capacity	150 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 150 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 130 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	L 150 kA 415 V AC
Trip unit name	MicroLogic 2.0
Trip unit technology	Electronic
Trip unit protection functions	LI
Control type	Manually operated
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	150 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 150 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 130 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 500/525 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	2000 Cycles at 690 V In 3000 Cycles at 690 V In/2 3000 Cycles at 440 V In 4000 cycles at 440 V In/2
Power losses	20 W
Mounting support	Backplate
Upside connection	Front
Downside connection	Front

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Connection pitch	70 mm
Protection type	L : for overload protection (long time) I : for instantaneous short-circuit protection
Trip unit rating	800 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 Ir
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
Instantaneous protection pick-up adjustment type li	Adjustable
[li] instantaneous protection pick-up adjustment range	1.5...10 x Ir
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
Net weight	14 kg

Environment

Standards	EN/IEC 60947-2
Product certifications	IEC66 CB Scheme
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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	37.0 cm
Package 1 Width	39.0 cm
Package 1 Length	23.0 cm
Package 1 Weight	13.227 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins