

Product datasheet

Specifications



Circuit breaker, EasyPact Solar
MCCB 800, 3P, 50kA at 800VAC,
500A rating, ETU trip unit,
adjustable thermal protection

SOL80N3E500

Main

Range of product	EasyPact Solar MCCB
Product or component type	Circuit breaker
Device short name	MCCB 800
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	500 A at 40 °C
[Ue] rated operational voltage	800 V AC 50/60 Hz conforming to EN/IEC 60947-2
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	50 kA Icu at 800 V AC 50/60 Hz conforming to EN/IEC 60947-2
Performance level	N 50 kA 800 V AC
Trip unit name	ETU
Trip unit technology	Electronic
Trip unit protection functions	LSI
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[U _i] rated insulation voltage	1250 V AC conforming to EN/IEC 60947-2
[U _{imp}] rated impulse withstand voltage	8 kV conforming to EN/IEC 60947-2
[I _{cs}] rated service short-circuit breaking capacity	40 kA at 800 V AC 50/60 Hz conforming to EN/IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	2500 cycles at 800 V In
Power dissipation per pole	38 W
Mounting support	Backplate
Mounting position	Horizontal and vertical
Upside connection	Front
Downside connection	Front
Connection terminals	screw terminals
Connection pitch	40 mm

Protection type	L : for overload protection S : for short-circuit protection I : for instantaneous short-circuit protection
Trip unit rating	500 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
[Ir] long-time protection pick-up adjustment range	0.25...1 x In
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	3...10 s at 6 x Ir 3...10 s at 7.2 x Ir
Thermal memory	Yes
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick-up adjustment range	1.5...12 x Ir
Short-time protection delay adjustment type tsd	Adjustable
[tsd] Short-time protection delay adjustment range	150 ms I ² t=off 150 ms I ² t=on
Instantaneous protection pick-up adjustment type Ii	Adjustable
[Ii] instantaneous protection pick-up adjustment range	1.5...12 x In
Width (W)	180 mm
Height (H)	250 mm
Depth (D)	105 mm
Product weight	6.5 kg
Colour	Grey (RAL 7015)

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-2 Annex H
Overvoltage category	III
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20...70 °C
Ambient air temperature for storage	-35...85 °C
Operating altitude	0...2000 m without derating 2000...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	17.500 cm
Package 1 Width	26.000 cm
Package 1 Length	29.000 cm
Package 1 Weight	8.059 kg

Contractual warranty

Warranty (in months)

18



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

Total lifecycle Carbon footprint	973 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	54 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	895 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	19 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards
SCIP Number	D7fe0057-b0a2-4f72-adf0-d84d18b1b57f
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	No

Use Longer



Lifetime extension

Repair	No
--------	----

Use Again



Repack and remanufacture

Recyclability potential, in %	48
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Dimensions

