

Product datasheet

Specifications



Circuit breaker, EasyPact Solar
MCCB 400, 3P, 36kA at 800VAC,
160A rating, ETU trip unit,
adjustable thermal protection

SOL40F3E160

Main

| | |
|--|---|
| Range of product | EasyPact Solar MCCB |
| Product or component type | Circuit breaker |
| Device short name | MCCB 400 |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 160 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 | 36 kA Icu at 800 V AC 50/60 Hz conforming to EN/IEC 60947-2 |
| Performance level | F 36 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 | 30 kA at 800 V AC 50/60 Hz conforming to EN/IEC 60947-2 |
| Mechanical durability | 20000 cycles |
| Electrical durability | 4000 cycles at 800 V In |
| Power dissipation per pole | 5 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 | 160 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) | 120 mm |
| Height (H) | 205 mm |
| Depth (D) | 105 mm |
| Net weight | 3.5 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 | 22.000 cm |
| Package 1 Width | 15.500 cm |
| Package 1 Length | 25.500 cm |
| Package 1 Weight | 4.894 kg |
| Unit Type of Package 2 | S03 |

| | |
|-------------------------------------|-----------|
| Number of Units in Package 2 | 2 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 10.358 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 | 175 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Carbon footprint of the manufacturing phase [A1 to A3] | 38 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 2 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 119 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 14 kg CO2 eq. |

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 |
| 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

Assembly's dimensions

