Product data sheet
Characteristics

SOL40F3E160
Circuit breaker, EasyPact Solar MCCB 400, 3P, 36kA at 800VAC, 160A rating, ETU trip unit, adjustable thermal protection



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
Breaking capacity	36 KA Icu at 800 V AC 50/60 Hz conforming to EN/IEC 60947-2
Breaking capacity code	F 36 kA 800 V AC
Trip unit name	ETU
Trip unit technology	Electronic
Trip unit protection functions	LSI
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	1250 V AC conforming to EN/IEC 60947-2
[Uimp] rated impulse withstand voltage	8 KV conforming to EN/IEC 60947-2
[Ics] rated service 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
Connections - 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	Adjustable

Long time pick-up adjustment range	0.25...1 x In
Long time delay adjustment type	Adjustable
[tr] long-time delay adjustment range	3…10 S at 6 x Ir 3…10 S at 7.2 x Ir
Thermal memory	Yes
Short-time pick-up adjustment type Isd	Adjustable
[Isd] short-time pick-up adjustment range	1.5...12 x Ir
Short-time delay adjustment type	Adjustable
[tsd] short-time delay adjustment range	150 Ms I²t=off 150 Ms I²t=on
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...12 x In
Width	120 Mm
Height	205 Mm
Depth	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

Offer Sustainability

Recyclability potential, in %	48
Total lifecycle Carbon footprint	175 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	38.16130295895047
Carbon footprint of the manufacturing phase [A1 to A3]	38 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.442014081172513
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	2.324275068285302
Carbon footprint of the installation phase [A5]	2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	118.92664086500349
Carbon footprint of the use phase [B2, B3, B4, B6]	119 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No

Carbon footprint of the end-of-life phase [C1 to C4]	13.65474263807788
Carbon footprint of the end-of-life phase [C1 to C4]	14 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	175
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 c
SCIP Number	D7fe0057-b0a2-4f72-adf0-d84d18b1b57f
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	No
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised