



 PRODUCT-DETAILS

S451E-C16

S451E-C16 Miniature Circuit Breaker



General Information

Extended Product Type	S451E-C16
Product ID	2CCS451001R0164
EAN	7612270105281
Catalog Description	S451E-C16 Miniature Circuit Breaker
Long Description	S451E-C16 Miniature Circuit Breaker 1 Pole C Characteristic 16A 6000 ~230/400V

ABB EcoSolutions

ABB EcoSolutions	Yes
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 92.95 %
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill
Sustainable Material Content in Packaging (wt. %)	FSC Mix Cardboard - 57 % FSC Mix Cardboard - 41.86 % Chemically Recycled Polymer - 0 % Chemically Recycled Polymer - 0 %
Extended Product Lifetime	Product Durability

End Of Life Disassembling Instructions	9AKK108470A1690
Environmental Product Declaration - EPD	9AKK108469A9054

Technical

Rated Operational Current (I_e)	16 A
Rated Ultimate Short- Circuit Breaking Capacity (I_{cu})	(240 V AC) 6 kA
Energy Limiting Class	3
Number of Protected Poles	1
Number of Poles	1P
Release Type	C
Accessories Available	Yes
Connecting Capacity	Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ²

Electrical

Tripping Characteristic	C
Rated Voltage (U_r)	240 V
Rated Operational Voltage	acc. to IEC 60898-1 230 V
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U_{imp})	4 kV
Input Voltage Type	AC
Rated Current (I_n)	16 A
Rated Short-Circuit Capacity	(230 V) 6 kA (400 V) 6 kA
Rated Conditional Short- Circuit Current (I_{nc})	(230 V) 6 kA (400 V) 6 kA
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	2.106 W
Overvoltage Category	III

Material Compliance

RoHS Declaration	9AKK107991A9699
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20210407
REACH Declaration	9AKK108467A9561
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20230417
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Environmental

Ambient Temperature	-25...55 °C
Ambient Air Temperature	Operation -25 ... 60 °C
Degree of Protection	IP20
Pollution Degree	3
Environmental Information	9AKK108467A9561

Dimensions

Width in Number of Modular Spacings	1
Product Net Width	69 mm
Product Net Height	89 mm
Product Net Depth / Length	94.5 mm
Product Net Weight	142 g
Size	1 module
Built-In Depth (t ₂)	92.5 mm
Dimension Diagram	2CCC451027C0106 Ind B

Ordering

Package Level 1 Units	carton 10 piece
Package Level 1 Gross Weight	1540 g
E-Number (Switzerland)	809119804

Certificates and Declarations

Declaration of Conformity - CE	9AKK107991A9699
--------------------------------	-----------------

Installation

Instructions and Manuals	2CCC404011M0109
--------------------------	-----------------

Popular Downloads

Data Sheet, Technical Information	2CCC451027C0106 Ind B
-----------------------------------	-----------------------

External Classifications and Standards

ETIM 9	EC000042 - Miniature circuit breaker (MCB)
ETIM 10	EC000042 - Miniature circuit breaker (MCB)

eClass	V11.0 : 27141901
Object Classification Code	FC
Standards	IEC/EN 60898-1

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → SMISLINE Classic → SMISLINE Classic

