



 PRODUCT-DETAILS

SH203L-C10

Miniature Circuit Breaker - SH200L - 3P - 10 A - C - (AC) 4.5 kA



General Information

Extended Product Type:	SH203L-C10
Product ID:	2CDS243001R0104
EAN:	4016779633475
Catalog Description:	Miniature Circuit Breaker - SH200L - 3P - 10 A - C - (AC) 4.5 kA
Long Description:	Compact Home SH200L miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 4,5 kA at 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product range SH200L comply with IEC/EN 60898 -1, allowing the use for residential applications.
Display Name:	SH203L-C10

ABB EcoSolutions

EcoSolutions Profile:	9AKK108471A1003
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 92.1 %

ABB Site Meeting Group Waste To Landfill No non-hazardous waste is sent to a landfill
Target:

Extended Product Lifetime:	Product Durability
End Of Life Disassembling Instructions:	9AKK108468A3121
Environmental Product Declaration - EPD:	9AKK108468A1580

Technical

Dielectric Test Voltage:	50 / 60 Hz - 1 min 2 kV
Power Supply Connection:	Arbitrary
Contact Position Indication:	ON / OFF
Energy Limiting Class:	3
Electrical Endurance:	20000 AC cycle
Mechanical Endurance:	20000 cycle
Number of Protected Poles:	3
Number of Poles:	3P
Tightening Torque:	2 N·m
Actuator Type:	Toggle
Screw Terminal Type:	Cage Terminal
Actuator Marking:	I / O
Actuator Material:	Insulation Group II, Black, Sealable
Recommended Screw Driver:	Pozidriv 2
Accessories Available:	No
Connecting Capacity:	Conductor 25 / 25 mm ² Flexible with Ferrule 0.75 ... 16 mm ² Flexible 0.75 ... 16 mm ² Rigid 0.75 ... 25 mm ² Stranded 0.75 ... 25 mm ²
Installation Size:	acc. to DIN 43880 1
Terminal Type:	Screw Terminals

Electrical

Tripping Characteristic:	C
Rated Operational Voltage:	acc. to IEC 60898-1 400 V
Operational Voltage:	Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U_{imp}):	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Input Voltage Type:	AC
Rated Current (I_n):	10 A
Rated Short-Circuit Capacity:	(AC) 4.5 kA (400 V AC) 4.5 kA

Rated Conditional Short-Circuit Current (I_{nc}):	(230 V) 5 kA (400 V) 5 kA
Rated Frequency (f):	50 / 60 Hz
Power Loss:	6.3 W at Rated Operating Conditions per Pole 2.1 W
Overvoltage Category:	III

Design

Housing Material:	Insulation Group II, RAL 7035
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Material Compliance

RoHS Declaration:	9AKK108472A0372
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20260312
REACH Declaration:	9AKK107492A1906
REACH Information:	False - does not contain substances > 0.1 mass percentage
REACH Date:	20260312
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
Toxic Substances Control Act - TSCA:	9AKK108468A8104
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B:	Business To Business

Environmental

Ambient Air Temperature:	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air Temperature:	30 °C
Degree of Protection:	IP20 Enclosure with Cover IP40
Pollution Degree:	2
Environmental Conditions:	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations:	20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27:	25g 2 shocks 13 ms
Environmental Information:	2CDK400030D0201

Dimensions

Width in Number of Modular Spacings:	3
Product Net Width:	52.5 mm

Product Net Height:	85 mm
Product Net Depth / Length:	69 mm
Product Net Weight:	0.306 kg
Pole Net Weight:	0.125 kg
Built-In Depth (t₂):	69 mm

Ordering

Package Level 1 Units:	carton 1 piece
Package Level 1 Gross Weight:	0.326 kg

Certificates and Declarations

Declaration of Conformity - CE:	2CDK400607D2703
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Installation

Instructions and Manuals:	2CDS207105P0001
Mounting on DIN Rail:	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position:	any

Popular Downloads

Data Sheet, Technical Information:	2CSC400030D0202
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External Classifications and Standards

ETIM 9:	EC000042 - Miniature circuit breaker (MCB)
ETIM 10:	EC000042 - Miniature circuit breaker (MCB)
UNSPSC:	39121603
eClass:	V11.0 : 27141901
IDEA Granular Category Code (IGCC):	4897 >> Miniature circuit breakers
Object Classification Code:	F
Standards:	IEC/EN 60898-1
Certification Agency:	EN IEC

Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Miniature Circuit Breakers MCBs > Miniature Circuit Breakers MCBs > SH200L

