



PRODUCT-DETAILS

SH201-C20

Miniature Circuit Breaker - SH200 - 1P - 20 A - C - (AC) 6 kA



General Information	
Extended Product Type	SH201-C20
Product ID	2CDS211001R0204
EAN	4016779630665
Catalog Description	Miniature Circuit Breaker - SH200 - 1P - 20 A - C - (AC) 6 kA
Long Description	Compact Home SH200 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 6 kA at 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product range SH200 comply with IEC/EN 60898-1, allowing the use for residential applications.

ABB EcoSolutions

ABB EcoSolutions	Yes
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 Target	No non-hazardous waste is sent to a landfill

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	1
Number of Poles	1P
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 <sup>2</sup> Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup> Flexible 0.75 ... 16 mm <sup>2</sup> Rigid 0.75 ... 25 mm <sup>2</sup> Stranded 0.75 ... 25 mm <sup>2</sup>
Installation Size	acc. to DIN 43880 1
Terminal Type	Screw Terminals

## Electrical

Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 230 V AC
Operational Voltage	Maximum (Incl. Tolerance) 253 V AC Minimum 12 V AC
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Input Voltage Type	AC
Rated Current (I <sub>n</sub> )	20 A
Rated Short-Circuit Capacity	(AC) 6 kA (230 / 400 V AC) 6 kA (230 V) 6 kA
Rated Conditional Short-Circuit Current (I <sub>nc</sub> )	(230 V) 6 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	2.5 W

at Rated Operating Conditions per Pole 2.5 W

Overvoltage Category	III
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## Design

Housing Material	Insulation Group II, RAL 7035
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## Material Compliance

RoHS Declaration	2CDK400607D2703
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20210608
REACH Declaration	9AKK107492A1906
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20251028
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	1.0
Product Net Width	17.5 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.105 kg
Pole Net Weight	0.125 kg
Built-In Depth (t <sub>2</sub> )	69 mm

<b>Ordering</b>	
Package Level 1 Units	carton 10 piece
Package Level 1 Gross Weight	1.09 kg
E-Number (Finland)	3210167

<b>Certificates and Declarations</b>	
Declaration of Conformity - CE	2CDK400607D2703

<b>Installation</b>	
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

<b>Popular Downloads</b>	
Data Sheet, Technical Information	2CSC400030D0202

<b>External Classifications and Standards</b>	
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

<b>Categories</b>	
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Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs → SH200



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