S204M-D20 1/6



PRODUCT-DETAILS

## S204M-D20

## Miniature Circuit Breaker - 4P - D - 20 A



General Information	
Extended Product Type	S204M-D20
Product ID	2CDS274001R0201
EAN	4016779601788
Catalog Description	Miniature Circuit Breaker - 4P - D - 20 A
Long Description	System pro M compact S200M 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,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 10 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200M comply with IEC/EN 60898-1 and IEC/EN 609 47-2, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200M to save 50% space.

ABB	ECO	Solu	tions
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**ABB EcoSolutions** Yes 9AKK108469A3798 **EcoSolutions Profile** Circular Design

Principles Recyclability

Design for Closing Resource Loops - Standard EN45555 - 90.6 %

S204M-D20 2/6

Rate	
Offered with Extended Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling
End of Life Instructions	9AKK108468A3132
Environmental Product Declaration - EPD	9AKK108467A7833

Technical Technical	
standards	IEC/EN 60898-1 CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
ripping Characteristic	D
ated Operational Yoltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60898-1 400 V acc. to IEC 60947-2 440 V AC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC Minimum 12 V DC
Rated Insulation Voltage Ui)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Vithstand Voltage (U <sub>imp</sub>	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Dielectric Test Voltage	50/60 Hz-1 min: 2 kV
nput Voltage Type	AC/DC
Rated Current (In)	20 A
Rated Short-Circuit Capacity	(AC) 10 kA (230 V AC) 10 kA (400 V AC) 10 kA (400 V) 10 kA
Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> )	(230 V AC) 25 kA (400 V AC) 15 kA (440 V AC) 15 kA (230 V) 25 kA (400 V) 15 kA
tated Conditional Short- Circuit Current (I <sub>nc</sub> )	(230 V) 15 kA (400 V) 25 kA
tated Service Short- Circuit Breaking Capacity (I <sub>CS</sub> )	(230 V AC) 7.5 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	9.2 W at Rated Operating Conditions per Pole 2.3 W
Power Supply Connection	Arbitrary
Contact Position ndication	Red ON / Green OFF
nergy Limiting Class	3
Electrical Endurance	20000 AC cycle
Mechanical Endurance Number of Protected	20000 cycle 4
Poles	
Number of Poles	4
	2.8 N·m
Overvoltage Category Cightening Torque Corew Terminal Type	Failsafe Bi-directional Cylind

S204M-D20 3/6

Actuator Marking	1/0
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group II, RAL 7035
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
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Busbar 10 / 10 mm² Flexible with Ferrule 0.75 25 mm² Flexible 0.75 25 mm² Flexible 0.75 25 mm² Rigid 0.75 35 mm² Rigid 0.75 35 mm² Stranded 0.75 35 mm²
Installation Size	acc. to DIN 43880 1
Terminal Type	Screw Terminals

Material Compliance	
RoHS Information	2CDK400003K0203
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20161001
REACH Declaration	9AKK107492A1906
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental	
Ambient Air Temperature	Operation -25 +55 °C Storage -40 +70 °C
Reference Ambient Air Temperature	30 ℃
Degree of Protection	IP20 IP40 Enclosure with Cover IP40
Pollution Degree	3
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

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	125 V DC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(125 V DC) 10 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA
Connecting Capacity UL/CSA	Busbar 14-8 AWG Conductor 14-4 AWG

S204M-D20 4/6

Tightening Torque 18 in-lb UL/CSA

Dimensions	
Width in Number of Modular Spacings	4.0
Product Net Width	70 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.5 kg
Pole Net Weight	0.125 kg
Built-In Depth (t <sub>2</sub> )	69 mm
Dimension Diagram	2CDC022007F0010

Ordering	
Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	0.51 kg
E-Number (Norway)	1634096

Certificates and Declarations	
Declaration of Conformity - CE	2CDK403001D0607
Declaration of Conformity - UKCA	9AKK108467A5053
I²t Characteristic	9AKK107992A5103
Certification Agency	EN IEC

Installation	
Instructions and	2CDS207104P0002
Manuals	

Popular Downloads	
Data Sheet, Technical Information	9AKK107046A0423
I²t Characteristic	9AKK107992A5103

Classifications		
ETIM 8 EC000042 - Miniature circu		
ETIM 9	EC000042 - Miniature circuit breaker (MCB)	
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)	
WEEE B2C / B2B	Business To Business	
CN8	8536 20 10	
UNSPSC	39121603	
eClass	V11.0 : 27141901	

IDEA Granular Category 4897 >> Miniature circuit breakers Code (IGCC) Object Classification Code

Accessories						
Identifier	Description	Туре	Quantity	Unit Of Measure		
2CDS200922R0001	Signal / Auxiliary Contact	S2C-S/H6R	1	piece		
2CDS200912R0001	Auxiliary Contact	S2C-H6R	1	piece		
2CDS200970R0031	Auxiliary Contact	S2C-H01	1	piece		
2CDS200970R0032	Auxiliary Contact	S2C-H10	1	piece		
2CDS200936R0001	Auxiliary Contact	S2C-H11L	1	piece		
2CDS200936R0002	Auxiliary Contact	S2C-H20L	1	piece		
2CDS200936R0003	Auxiliary Contact	S2C-H02L	1	piece		
2CDS200946R0001	Auxiliary Contact	S2C-H6-11R	1	piece		
2CDS200946R0002	Auxiliary Contact	S2C-H6-20R	1	piece		
2CDS200946R0003	Auxiliary Contact	S2C-H6-02R	1	piece		
2CDS200909R0001	Shunt Trip	S2C-A1	1	piece		
2CDS200909R0002	Shunt Trip	S2C-A2	1	piece		
2CSS200911R0001	Undervoltage Release	S2C-UA 12 DC	1	piece		
2CSS200911R0002	Undervoltage Release	S2C-UA 24 AC	1	piece		
2CSS200911R0003	Undervoltage Release	S2C-UA 48 AC	1	piece		
2CSS200911R0004	Undervoltage Release	S2C-UA 110 AC	1	piece		
2CSS200911R0005	Undervoltage Release	S2C-UA 230 AC	1	piece		
2CSS200911R0006	Undervoltage Release	S2C-UA 400 AC	1	piece		
2CSS200911R0007	Undervoltage Release	S2C-UA 24 DC	1	piece		
2CSS200911R0008	Undervoltage Release	S2C-UA 48 DC	1	piece		
2CSS200911R0009	Undervoltage Release	S2C-UA 110 DC	1	piece		
2CSS200911R0010	Undervoltage Release	S2C-UA 230 DC	1	piece		
GHS2001901R0003	Mechanical Accessories	S2C-DH	1	piece		
2CSS200998R0001	Mechanical tripping device	S2C-BP	1	piece		
2CSS200999R0001	Plug-in base	S2C-EST	1	piece		
2CDS200918R0001	Hand Operated Neutral	S2C-NT	1	piece		
2CCA880100R0001	Sensor	CMS-100PS	1	piece		
2CCA880101R0001	Sensor	CMS-101PS	1	piece		
2CCA880102R0001	Sensor	CMS-102PS	1	piece		

## **Categories**

 $Low\ Voltage\ Products\ \rightarrow Modular\ DIN\ Rail\ Products\ \rightarrow Miniature\ Circuit\ Breakers\ MCBs\ \rightarrow Miniature\ MCBs\ \rightarrow Miniature\$ MCBs

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S204M-D20 6/6







