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PRODUCT-DETAILS

S204-D50

Miniature Circuit Breaker - S200 - 4P - 50 A - D - (AC) 6 kA



General Information	
Extended Product Type	S204-D50
Product ID	2CDS254001R0501
EAN	4016779552097
Catalog Description	Miniature Circuit Breaker - S200 - 4P - 50 A - D - (AC) 6 kA
Long Description	System pro M compact S200 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 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space.

ABB EcoSolutions	
ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108469A3796
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 80.7 %

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ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill
Extended Product Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling
End Of Life Disassembling Instructions	9AKK108468A3132
Environmental Product Declaration - EPD	9AKK108467A7832

Technical	
Dielectric Test Voltage	50 / 60 Hz - 1 min 2 kV
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(230 V AC) 20 k/ (400 V AC) 10 k/ (440 V AC) 10 k/ (230 V) 20 k/
Rated Service Short- Circuit Breaking Capacity (I _{cs})	(400 V) 10 kA (230 V AC) 15 kA (400 V AC) 7.5 kA (440 V AC) 7.5 kA
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 AC cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	4
Number of Poles	4F
Tightening Torque	2.8 N·m
Actuator Type	Toggle
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Termina
Actuator Marking	I/C
Actuator Material	Insulation Group II, Black, Sealable
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 Rigid 0.75 35 mm² Rigid 0.75 35 mm² Stranded 0.75 35 mm²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals

Electrical	
Tripping Characteristic	D
Rated Operational	acc. to IEC 60898-1 400 V AC
Voltage	acc. to IEC 60947-2 440 V AC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC
	Minimum 12 V AC
	Minimum 12 V DC

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Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse	4 kV
Withstand Voltage (U _{imp}	at 2000 m 5 kV
)	at Sea Level 6.2 kV
Input Voltage Type	AC/DC
Rated Current (In)	50 A
Rated Short-Circuit	(AC) 6 kA
Capacity	(DC) 6 kA
Rated Conditional Short-	(230 V) 20 kA
Circuit Current (Inc)	(400 V) 20 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	11.6 W
	at Rated Operating Conditions per Pole 2.9 W
Overvoltage Category	III
I ² t Characteristic	9AKK107992A5103

Design

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

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	110 V DC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in-lb

Material Compliance	
RoHS Declaration	2CDK403001D0607
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20240228
REACH Declaration	9AKK107492A1906
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
SCIP	e6800e55-46b1-49a3-881b-0f66d0e903ad Germany
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 ℃
Degree of Protection	IP20

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	IP40 Enclosure with Cover IP40
Pollution Degree	2 Eliciosare with cover in the
Environmental	28 cycles
Conditions	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
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	0.48 kg
Pole Net Weight	0.125 kg
Built-In Depth (t ₂)	69 mm
Dimension Diagram	2CDC022007F0010
Engineering Engineering	
EPLAN Data	9AAC204436_EPLAN
Ordering	carton I nigos
Package Level 1 Units Package Level 1 Gross	carton 1 piece 0.5 kg
Weight	0.5 kg
Certificates and Declarations	
Declaration of Conformity - CE	2CDK403001D0607
Declaration of Conformity - UKCA	9AKK108467A5053
Instructions and Manuals	2CDS207104P0002
Mounting Type	DIN-Rai
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	9AKK107991A8329
l ² t Characteristic	9AKK107992A5103

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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 IEC/EN 60947-2 UL 1077
Certification Agency	EN IEC UL
Standar dization Body	EN IEC UL

Accessories

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Unit Of Measure piece	Type Quantity		Description	Identifier
	1	S2C-S/H6R	S2C-S/H6R Universal Auxiliary/Signal Con	2CDS200922R0001
piece	1	S2C-H6R	S2C-H6R Auxiliary Contact 1CO	2CDS200912R0001
piece	1	S2C-H01	S2C-H01 Bottom-fitting auxiliary contact S2C- H01 Bottom-fitting auxiliary contact 1NC	2CDS200970R0031
piece	1	S2C-H10	S2C-H10 Bottom-fitting auxiliary contact 1NO	2CDS200970R0032
piece	1	S2C-H11L	S2C-H11L Auxiliary Contact 1NO / 1NC, Left side mounting	2CDS200936R0001
piece	1	S2C-H20L	S2C-H20L Auxiliary Contact 2NO	2CDS200936R0002
piece	1	S2C-H02L	S2C-H02L Auxiliary Contact 2NC, Left side mounting	2CDS200936R0003
piece	1	S2C-H6-11R	S2C-H6-11R Auxiliary contact 1NO/1NC	2CDS200946R0001
piece	1	S2C-H6-20R	S2C-H6-20R Auxiliary contact 2NO	2CDS200946R0002
piece	1	S2C-H6-02R	S2C-H6-02R Auxiliary contact 2NC	2CDS200946R0003
piece	1	S2C-UA 12 DC	S2C-UA 12 DC Undervoltage release	2CSS200911R0001
piece	1	S2C-UA 24 AC	S2C-UA 24 AC Undervoltage release	2CSS200911R0002
piece	1	S2C-UA 48 AC	S2C-UA 48 AC Undervoltage release	2CSS200911R0003
piece	1	S2C-UA 110 AC	S2C-UA 110 AC Undervoltage releaseS	2CSS200911R0004
piece	1	S2C-UA 230 AC	S2C-UA 230 AC Undervoltage release	2CSS200911R0005
piece	1	S2C-UA 400 AC	S2C-UA 400 AC Undervoltage release	2CSS200911R0006
piece	1	S2C-UA 24 DC	S2C-UA 24 DC Undervoltage release	2CSS200911R0007
piece	1	S2C-UA 48 DC	S2C-UA 48 DC Undervoltage release	2CSS200911R0008
piece	1	S2C-UA 110 DC	S2C-UA 110 DC Undervoltage releaseS	2CSS200911R0009
piece	1	S2C-UA 230 DC	S2C-UA 230 DC Undervoltage release	2CSS200911R0010
piece	1	S2C-DH	S2C-DH Rotary operating mechanism	GHS2001901R0003
piece	1	S2C-BP	S2C-BP Mechanical tripping device	2CSS200998R0001
piece	1	S2C-EST	S2C-EST Plug-in base	2CSS200999R0001
piece	1	S2C-NT	S2C-Nt Hand operated neutral	2CDS200918R0001
piece	1	CMS-100PS	CMS-100PS Sensor	2CCA880100R0001
piece	1	CMS-101PS	CMS-101PS Sensor	2CCA880101R0001
piece	1	CMS-102PS	CMS-102PS Sensor	2CCA880102R0001

Categories

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