PRODUCT-DETAILS

S204-Z10

Miniature Circuit Breaker - S200 - 4P - 10 A - Z - (AC) 6 kA



General Information

Extended Product Type:	S204-Z10
Product ID:	2CDS254001R0428
EAN:	4016779531375
Catalog Description:	Miniature Circuit Breaker - S200 - 4P - 10 A - Z - (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.
Display Name:	S204-Z10

ABB EcoSolutions

ABB EcoSolutions Profile:	9AKK108469A3796

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Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 80.7 %
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill
Extended Product Lifetime:	Product Durability is Enhanced
Offered with Takeback Services:	Take Back for Recycling
End Of Life Disassembling Instructions:	9AKK108468A3132
Environmental Product Declaration - EPD:	9AKK108472A3863 9AKK108467A7832

Technical

Dielectric Test Voltage:	50 / 60 Hz - 1 min 2 kV
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 20 kA (400 V AC) 10 kA (440 V AC) 10 kA (230 V) 20 kA (400 V) 10 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(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:	20000 AC cycle
Mechanical Endurance:	20000 cycle
Number of Protected Poles:	4
Number of Poles:	4P
Tightening Torque:	2.8 N·m
Screw Terminal Type:	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking:	I / O
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
Actuator Type:	Toggle

Electrical

Tripping Characteristic:	Z

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Rated Operational Voltage:	acc. to IEC 60947-2 440 V AC
Operational Voltage:	Maximum (Incl. Tolerance) 440 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/DC
Rated Current (I_n):	10 A
Rated Short-Circuit Capacity:	(AC) 6 kA (DC) 6 kA
Frequency (f):	50 Hz
Rated Frequency (f):	50 / 60 Hz
Power Loss:	10.8 W at Rated Operating Conditions per Pole 2.7 W
Overvoltage Category:	III
I^2t Characteristic:	9AKK107992A5104

Design

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:	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

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Environmental

Ambient Air Temperature:	Operation -25 ... +55 °C Storage -40 ... +70 °C
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

Dimensions

Width in Number of Modular Spacings:	4
Product Net Width:	70 mm
Product Net Height:	88 mm
Product Net Depth / Length:	69 mm
Product Net Weight:	0.448 kg
Pole Net Weight:	0.125 kg
Built-In Depth (t_2):	69 mm
Dimension Diagram:	2CDC022007F0010

Engineering

EPLAN Data:	9AAC204436_EPLAN

Ordering

Package Level 1 Units:	carton 1 piece
Package Level 1 Gross Weight:	0.468 kg
E-Number (Norway):	1623791

Certificates and Declarations

Declaration of Conformity - CE:	2CDK403001D0607
Declaration of Conformity - UKCA:	9AKK108467A5053

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Installation

Instructions and Manuals:	2CDS207104P0002
Mounting Type:	DIN-Rail
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

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 IEC/EN 60947-2 UL 1077
Certification Agency:	EN IEC UL
Standardization Body:	EN IEC UL

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200970R0031	2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0032	S2C-H10 Auxiliary Contact	S2C-H10	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact 1NO / 1NC, Left side mounting	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact 2NO	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L Auxiliary Contact 2NC, Left side mounting	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	1	piece
2CDS200909R0001	S2C-A1 Shunt Trip, 12...110V	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 Shunt Trip, 110...415V	S2C-A2	1	piece

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Identifier	Description	Type	Qty	Unit Of Measure
GHS2001901R0003	S2C-DH Rotary operating mechanism	S2C-DH	1	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST Plug-in base	S2C-EST	1	piece
2CDS200918R0001	S2C-Nt Hand operated neutral	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece

Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Miniature Circuit Breakers MCBs > Miniature Circuit Breakers MCBs > S200







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