



PRODUCT-DETAILS

# S202UDC-Z10

## Miniature Circuit Breaker - S200UDC - 2P - 10 A - Z



General Information	
Extended Product Type	S202UDC-Z10
Product ID	2CDS272517R0428
EAN	4016779825436
Catalog Description	Miniature Circuit Breaker - S200UDC - 2P - 10 A - Z
Long Description	<p>System pro M compact S200UDC current limiting miniature circuit breakers are specially designed for DC applications in the scope of UL489.</p> <p>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 (K,Z), configurations (1P,2P) and rated currents (up to 63A).The Short-circuit current rating SCCR acc. UL489 is 14 kA. The S200UDC is suitable for DC voltages up to 125 VDC (2 pole). All MCBs of the product range S200UDC comply with UL489, allowing the use for commercial and industrial applications.</p>

Technical	
Tripping Characteristic	Z
Rated Operational Voltage	125 V DC acc. to IEC 60898-1 250 V

	acc. to IEC 60947-2 125 V
Rated Insulation Voltage (U <sub>i</sub> )	440 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Primary Rated Impulse Withstand Voltage	4 kV
Input Voltage Type	DC
Rated Current (I <sub>n</sub> )	10 A
Rated Short-Circuit Capacity	(230 V AC) 14 kA (230 V) 14 kA
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	(230 V AC) 14 kA (230 V) 14 kA
Rated Conditional Short-Circuit Current (I <sub>nc</sub> )	(230 V) 14 kA
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(230 V AC) 14 kA
Rated Frequency (f)	DC
Power Loss	4.2 W at Rated Operating Conditions per Pole 2.1 W
Power Supply Connection	Please Note Polarity of Device
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Mechanical Endurance	20000 cycle
Number of Protected Poles	2
Number of Poles	2P
Overvoltage Category	III
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
Housing Material	Insulation Group I, 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
Remarks	Please note polarity of device
Connecting Capacity	Busbar 10 / 10 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 2
Terminal Type	Double Clamp

## Material Compliance

RoHS Information	2CDK400630D2703
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20210323

REACH Declaration	9AKK107492A1906
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
SCIP	89cc0d1d-3a0f-41bb-b5d1-9a1396ff5015 Germany (DE)

## Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Degree of Protection	IP20 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	30g 3 shocks 11 ms
Environmental Information	9AKK107680A6947

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	250 V DC
Interrupting Rating acc. to UL1077	(125 V DC) 14 kA
Interrupting Rating acc. to UL489	(125 V DC) 14 kA (250 V DC) 14 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	25 in-lb

## Dimensions

Width in Number of Modular Spacings	2.0
Product Net Width	35 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.3 kg
Pole Net Weight	0.14 kg
Built-In Depth (t <sub>2</sub> )	69 mm

## Ordering

Package Level 1 Units	carton 5 piece
Package Level 1 Gross Weight	1.55 kg

Certificates and Declarations

Declaration of Conformity - CE	2CDK400630D2702
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Installation

Instructions and Manuals	No document needed
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Popular Downloads

Data Sheet, Technical Information	No document needed
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External Classifications and Standards

ETIM 8	EC000042 - Miniature circuit breaker (MCB)
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 Code (IGCC)	4899 >> Miniature circuit breaker (MCB) screw-in model
Object Classification Code	F
Standards	UL 489
Certification Agency	UL
Standardization Body	UL

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200914R0001	Auxiliary Contact	S2C-H6RU	1	piece
2CDS200924R0001	Signal / Auxiliary Contact	S2C-S6RU	1	piece
2CDS200908R0001	Shunt Trip	S2C-A1U	1	piece
2CDS200908R0002	Shunt Trip	S2C-A2U	1	piece
2CDS200917R0001	Mechanical Accessories	S2C-TC20U	1	piece

Categories

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

