

PRODUCT-DETAILS

S202UDC-Z50

S202UDC-Z50 Miniature Circuit Breaker - 2P - Z - 50 A



General Information

Extended Product Type	S202UDC-Z50
Product ID	2CDS272517R0578
EAN	4016779825511
Catalog Description	S202UDC-Z50 Miniature Circuit Breaker - 2P - Z - 50 A

Long Description

System pro M compact S200UDC current limiting miniature circuit breakers are specially designed for DC applications in the scope of UL489. 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.

Technical

Standards	UL 489
Tripping Characteristic	Z
Rated Operational Voltage	125 V DC acc. to IEC 60947-2 125 V
Rated Insulation Voltage (U _i)	440 V
Rated Impulse Withstand Voltage (U _{imp})	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Input Voltage Type	DC

Rated Current (I_n)	50 A
Rated Short-Circuit Capacity (I_{cn})	(230 V AC) 14 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(230 V AC) 14 kA
Rated Conditional Short-Circuit Current (I_{nc})	(230 V) 14 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(230 V AC) 14 kA
Rated Frequency (f)	DC
Power Loss	8.8 W at Rated Operating Conditions per Pole 4.4 W
Power Supply Connection	Please Note Polarity of Device
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3 20000 cycle
Number of Poles	2
Number of Protected Poles	2
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 ² Flexible with Ferrule 0.75 ... 16 mm ² Flexible 0.75 ... 16 mm ² Rigid 0.75 ... 25 mm ² Stranded 0.75 ... 25 mm ²
Installation Size	acc. to DIN 43880 2
Terminal Type	Double Clamp

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 acc. to IEC 60068-2-6	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
Resistance to Shock acc. to IEC 60068-2-27	30g / 3 shocks / 11 ms
RoHS Status	Following EU Directive 2011/65/EU
Environmental Information	9AKK107680A6947

Technical UL/CSA

Maximum Operating Voltage UL/CSA	125 V DC
Interrupting Rating acc. to UL1077	(125 V DC) 14 kA
Interrupting Rating acc. to UL489	(125 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
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 ₂)	69 mm

Container Information

Package Level 1 Units	carton 5 piece
Package Level 1 Width	105 mm
Package Level 1 Height	80 mm
Package Level 1 Depth / Length	183 mm
Package Level 1 Gross Weight	1.55 kg
Package Level 1 EAN	4016779825894

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
Country of Origin	Germany (DE)

Certificates and Declarations (Document Number)

Certification Agency	UL
Declaration of Conformity - CE	2CDK400630D2702
Environmental Information	9AKK107680A6947
Instructions and Manuals	No document needed
RoHS Information	2CDK400630D2702

Popular Downloads

Data Sheet, Technical Information	No document needed
Instructions and	No document needed

Classifications

ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
EPLAN Catalog Tree	Electrical engineering / Protection devices / General
EPLAN Function Definition	Circuit breaker / Double circuit-breaker / Double circuit breaker 1_2_3_4
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	8536 20 10
UNSPSC	39121614
eClass	V11.0 : 27141901
Object Classification Code	F

Accessories

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

Categories

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

