



## PRODUCT-DETAILS

### S282UC-K25

### S282UC-K25 Miniature Circuit Breaker - 2P - K - 25 A

For sale but "Obsolete", replaced by



#### General Information

Extended Product Type	S282UC-K25
Product ID	GHS2820164R0517
EAN	4012233637508
Catalog Description	S282UC-K25 Miniature Circuit Breaker - 2P - K - 25 A

Long Description	<p>System pro M S280UC is a universal current miniature circuit breaker that provides current limitation. With its high DC voltage rating it is a excellent solution for DC applications in photovoltaic's, telecommunication, traction and industrial applications.</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.</p> <p>They are available in different characteristics (B,K,Z), configurations (1P,2P,3P,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S280UC comply with IEC/EN 60947-2, UL1077 and CSA 22.2 No. 235, allowing the use for commercial and industrial applications in direct current circuits for voltages up to 220 V DC 1 pole and 440 V DC 2, 3 and 4 poles.</p>
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#### Technical

Standards	CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
Product Name	Miniature Circuit Breaker
Tripping Characteristic	K
Rated Voltage (U <sub>r</sub> )	400 V AC

Rated Operational Voltage	acc. to IEC 60898-1 440 V DC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Maximum (Incl. Tolerance) 484 V DC Minimum 12 V AC Minimum 12 V DC
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand 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
Input Voltage Type	AC/DC
Rated Current (I <sub>n</sub> )	25 A
Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> )	6 kA
Rated Service Short- Circuit Breaking Capacity (I <sub>cs</sub> )	6 kA
Rated Frequency (f)	50 / 60 Hz
Contact Position Indication	ON / OFF
Electrical Endurance	10000 AC cycle 20000 cycle
Number of Poles	2
Overvoltage Category	III
Product Range	S280UC
Tightening Torque	2,5 N·m
Actuator Type	Toggle
Screw Terminal Type	Cable Clamp
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group I, RAL 7035
Mounting on DIN Rail	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 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 16 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 1
Terminal Type	Screw Terminals

## Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air	20 °C

Temperature	
Degree of Protection	IP20 Enclosure with Cover IP40
Pollution Degree	2
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	2CDK400030D0201

### Technical UL/CSA

Interrupting Rating acc. to UL1077	4.5 kA
Connecting Capacity UL/CSA	Conductor 18-4 AWG
Tightening Torque UL/CSA	Main Circuit 17.5 in-lb

### Dimensions

Width in Number of Modular Spacings	2
Product Net Width	35 mm
Product Net Height	90 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.26 kg
Size	2 module
Built-In Depth (t <sub>2</sub> )	68 mm

### Container Information

Package Level 1 Units	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	1.34 kg

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
Replacement Product ID (NEW)	2CDS272061R0517

Country of Origin	Germany (DE)
Selling Unit of Measure	piece

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#### Certificates and Declarations (Document Number)

Declaration of Conformity - CE	2CDK400002D0401
Environmental Information	2CDK400030D0201
Instructions and Manuals	2CSC400002D0208
RoHS Information	2CDK400005K0201

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#### Popular Downloads

Data Sheet, Technical Information	9AKK106930A8017
Data Sheet, Technical Information (Part 2)	2CDC400021D0201
Instructions and Manuals	2CSC400002D0208

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#### Classifications

ETIM 6	EC000042 - Miniature circuit breaker (MCB)
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

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#### Categories

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

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