

# S282UC-K1,6



## General Information

<b>Extended Product Type:</b>	S282UC-K1,6
<b>Product ID:</b>	GHS2820164R0257
<b>EAN:</b>	4012233636709
<b>Catalog Description:</b>	Miniature Circuit Breakers MCBs - S280UC - Number of Poles 2 - Tripping characteristic K
<b>Long Description:</b>	System pro M S280UC is a universal current miniature circuit breaker that provides current limitation. With its high DC voltage rating it is an excellent solution for DC applications in photovoltaic's, telecommunication, traction and industrial applications. 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,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.

## Categories

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

## Ordering

<b>EAN:</b>	4012233636709
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85361010

## Dimensions

<b>Product Net Width:</b>	35.0 mm
<b>Product Net Depth:</b>	69.0 mm
<b>Product Net Height:</b>	90.0 mm
<b>Product Net Weight:</b>	0.260 kg

## Container Information

<b>Package Level 1 Units:</b>	5 piece
<b>Package Level 1 Width:</b>	105.0 mm
<b>Package Level 1 Length:</b>	183.0 mm
<b>Package Level 1 Height:</b>	80.0 mm
<b>Package Level 1 Gross Weight:</b>	1.340 kg

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +70 °C
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	30g / 3 shocks / 11 ms
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical

<b>Standards:</b>	IEC/EN 60947-2 UL 1077 CSA 22.2 No. 235
<b>Number of Poles:</b>	2
<b>Tripping Characteristic:</b>	K
<b>Rated Current (I<sub>n</sub>):</b>	1.60 A
<b>Rated Operational Voltage:</b>	acc. to IEC60898-1 440 V DC
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC/EN 60664-1 500 V
<b>Operational Voltage:</b>	Maximum (incl. tolerance) 440 V AC / 484 V DC Minimum 12 V AC / 12 V DC
<b>Rated Frequency (f):</b>	50 Hz 60 Hz
<b>Rated Short-Circuit Capacity ( I<sub>cn</sub> ):</b>	6.0 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	6 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	6 kA
<b>Overvoltage Category:</b>	III
<b>Pollution Degree:</b>	2
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	4 kV (6.2 kV @ sea level) kV (5.0 kV @ 2000 m) kV
<b>Dielectric Test Voltage:</b>	50 / 60 Hz, 1 min: 2 kV
<b>Housing Material:</b>	Insulation group I, RAL 7035
<b>Actuator Type:</b>	Insulation group II, black, sealable
<b>Actuator Marking:</b>	I / O
<b>Contact Position Indication:</b>	ON / OFF
<b>Degree of Protection:</b>	IP20
<b>Remarks:</b>	IP40 in enclosure with cover; Please note polarity of device
<b>Electrical Endurance:</b>	10000 AC cycle
<b>Mechanical Endurance:</b>	20000 cycle
<b>Terminal Type:</b>	Screw Terminals
<b>Screw Terminal Type:</b>	Cable Clamp
<b>Connecting Capacity:</b>	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>
<b>Tightening Torque:</b>	2.5 N·m
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Mounting on DIN Rail:</b>	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
<b>Mounting Position:</b>	Any

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	500 V DC / 480 V AC
<b>Connecting Capacity UL/CSA:</b>	Conductor 18 ... 4 AWG
<b>Tightening Torque UL/CSA:</b>	Main Circuit 17.5 in·lb
<b>Interrupting Rating acc. to UL1077:</b>	4.5 kA

## Certificates and Declarations (Document Number)

<b>Declaration of Conformity - CE:</b>	2CDK400002D0401
<b>RoHS Information:</b>	2CDK400005K0201

## Classifications

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**ETIM 4.0:** EC000042 - Miniature circuit breaker (MCB)

**ETIM 5.0:** EC000042 - Miniature circuit breaker (MCB)

**Object Classification Code:** F

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