

PRODUCT-DETAILS

# S282UC-K16

## Miniature Circuit Breaker - S280UC - 2P - K - 16 ampere

For sale but "Obsolete", replaced by



### General Information

Extended Product Type	S282UC-K16
Product ID	GHS2820164R0467
EAN	4012233637300
Catalog Description	Miniature Circuit Breaker - S280UC - 2P - K - 16 ampere

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 an 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
Number of Poles	2
Tripping Characteristic	K
Rated Current ( $I_n$ )	16 A

Rated Operational Voltage	acc. to IEC 60898-1 440 V DC
Rated Insulation Voltage ( $U_i$ )	acc. to IEC/EN 60664-1 500 V
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC / 484 V DC Minimum 12 V AC / 12 V DC
Rated Frequency (f)	50 Hz 60 Hz
Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ )	6 kA
Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )	6 kA
Overvoltage Category	III
Pollution Degree	2
Rated Impulse Withstand Voltage ( $U_{imp}$ )	4 kV (6.2 kV @ sea level) (5.0 kV @ 2000 m)
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Housing Material	Insulation Group I, RAL 7035
Actuator Type	Toggle
Actuator Material	Insulation Group II, Black, Sealable
Actuator Marking	I / O
Contact Position Indication	ON / OFF
Degree of Protection	IP20
Remarks	IP40 in enclosure with cover Please note polarity of device
Electrical Endurance	10000 AC cycle 20000 cycle
Terminal Type	Screw Terminals
Screw Terminal Type	Cable Clamp
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>
Tightening Torque	2.5 N·m
Recommended Screw Driver	Pozidriv 2
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
Built-In Depth ( $t_2$ )	68 mm
Installation Size	acc. to DIN 43880 1
Power Supply Connection	Arbitrary

## Environmental

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

Resistance to Shock acc. to IEC 60068-2-27	30g / 3 shocks / 11 ms
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
RoHS Status	Following EU Directive 2011/65/EU

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## Technical UL/CSA

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

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## Dimensions

Product Net Width	35 mm
Product Net Depth / Length	69 mm
Product Net Height	90 mm
Product Net Weight	0.26 kg

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## Container Information

Package Level 1 Units	5 piece
Package Level 1 Width	105 mm
Package Level 1 Depth / Length	183 mm
Package Level 1 Height	80 mm
Package Level 1 Gross Weight	1.34 kg

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## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
Replacement Product ID (NEW)	2CDS272061R0467

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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

Object Classification Code	F
ETIM 6	EC000042 - Miniature circuit breaker (MCB)
ETIM 7	EC000042 - Miniature circuit breaker (MCB)
eClass	7.0 27141901
UNSPSC	39121614

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## Categories

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

