

General Information

Extended Product Type:	S282UC-K1
Product ID:	GHS2820164R0217
EAN:	4012233636600
Catalog Description:	Miniature Circuit Breakers MCBs - S280UC - Number of Poles 2 - Tripping characteristic K
Long Description:	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

EAN:	4012233636600
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85361010

Dimensions

Product Net Width:	35.0 mm
Product Net Depth:	69.0 mm
Product Net Height:	90.0 mm
Product Net Weight:	0.260 kg

Container Information

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

Environmental

Ambient Air Temperature:	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Temperature for Tripping	20 °C
Characteristics:	
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 2002/95/EC August 18, 2005 and amendment

Technical

Standards:	IEC/EN 60947-2 UL 1077 CSA 22.2 No. 235
Number of Poles:	2
Tripping Characteristic:	K
Rated Current (I_n):	1.00 A
Rated Operational Voltage (U_e):	440 V DC
Rated Insulation Voltage (U_i):	Phase to Ground 250 V AC Phase to Phase 500 V AC
Operational Voltage:	Maximum 440 V AC / 484 V DC Minimum 12 V AC Minimum 12 V DC
Rated Frequency (f_r):	50 / 60 Hz
Rated Short-Circuit Capacity (I_{cn}):	6.0 kA
Rated Ultimate Short-Circuit	6.0 kA

Breaking Capacity (I_{cu}):	
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	6.0 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:	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 (N_{elec}):	10000 cycle
Mechanical Endurance (N_{endu}):	20000 cycle
Terminal Type:	Screw Terminals
Screw Terminal Type:	Cable Clamp
Connecting Capacity:	Rigid 0.75...25 mm ² Flexible with Ferrule 0.75...16 mm ²
Tightening Torques:	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

Technical UL/CSA

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

Certificates and Declarations (Document Number)

Declaration of Conformity - CE:	2CDK400002D0401
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Classifications

ETIM 4.0:	EC000042 - Miniature circuit breaker (MCB)
ETIM 5.0:	EC000042 - Miniature circuit breaker (MCB)
Object Classification Code:	F

