



PRODUCT-DETAILS

LS45M42B11

LS45M42B11 Limit Switch



| General Information | |
|-----------------------|--|
| Extended Product Type | LS45M42B11 |
| Product ID | 1SBV013142R1211 |
| EAN | 3471522613738 |
| Catalog Description | LS45M42B11 Limit Switch |
| Long Description | LS45M42B11 is a 40 mm wide, standard reinforced Limit Switch made of zinc alloy material (Zamak), with 4 mounting holes at the top and bottom, 1 1/2" NPT cable entry on the bottom, steel roller lever (Ø22 mm) actuator and 1 N.O + 1 N.C snap action (Zb type) contacts |

| Ordering | |
|------------------------|----------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

| Popular Downloads | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC141160C0201 |

Dimensions

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|----------------------------|----------|
| Product Net Width | 40 mm |
| Product Net Height | 133 mm |
| Product Net Depth / Length | 60 mm |
| Product Net Weight | 0.279 kg |

Technical

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| Action Type of the Contact Element (acc. to IEC 60947-5-1) | Snap action contacts |
| Actuation Speed | acc. to IEC 60947-5-1 Max. 1.5 m/s |
| Actuation Torque | acc. to IEC 60947-5-1 Min. 0.15 N·m |
| Actuator Type | Ø22 mm stainless steel roller lever |
| Angular Head Adjustment | adjustable head every 90° |
| Angular Lever Adjustment | 9° in 9° |
| B10d Value | Operations 50 Millions |
| Climatic Withstand | according to IEC 68-2-3 and salty mist according to IEC 68-2-11 |
| Conventional Free-air Thermal Current (I_{th}) | acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 10 A |
| Connecting Capacity | Bar AWG 20 ... AWG 14 mm ² Bar 0.5 ... 2.5 mm ² |
| Consistency (Measured over 1 Million Operations) | 0.05 mm |
| Contact Element Form (acc. to IEC 60947-5-1) | Zb |
| Connecting Terminals (delivered in open position) | M3.5 (+,-) pozidriv 2 screw with cable clamp |
| Degree of Protection | acc. to IEC 60529 IP66 |
| Electrical Shock Protection acc. to IEC 536 | Class I |
| Housing Material | Metal |
| Maximum Electrical Switching Frequency | 3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour |
| Maximum Mounted Auxiliary Contacts | 1 NO, 1 NC |
| Mechanical Durability | 25 million |
| Mounting Type | 40 mm (EN 50041) |
| Mounting by Screws (not supplied) | 2 or 4 x M5 screws |
| Movement to be Detected | 30° Cam Translation Movement |
| Number of Auxiliary Contacts NC | 1 |
| Number of Auxiliary Contacts NO | 1 |
| Number and Type of | 1/2 NPT cable gland |

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|---|---|
| Bottom Cable Glands | |
| Operating Head Shape | A shape acc. EN 50041 |
| Pilot Duty UL/CSA | A600 Q600 |
| Positive Opening Operation Torque (Direct Opening Action) | Minimum Torque acc. to IEC 60947-5-1 0.32 |
| Positive Opening Operation of NC Contact (s) | Yes |
| Rated Impulse Withstand Voltage (U _{imp}) | 6 kV |
| Rated Operational Current AC-15 (I _e) | (230 V AC) 3.1 A (400 V) NC 4 (24 V) 10 A (130 V) 5.5 A (240 V) 3 A |
| Rated Frequency (f) | Supply Circuit 50 / 60 Hz |
| Rated Insulation Voltage (U _i) | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 500 V acc. to UL/CSA 600 V |
| Rated Operational Current DC-13 (I _e) | (24 V) 6 A (110 V) 0.6 A (125 V) 0.55 A (250 V) 0.4 A |
| Resistance Between Contacts | 25 ms |
| Short-Circuit Protective Devices | gG Type Fuses 10 A |
| Terminal Marking | according to EN 50013 |
| Terminal for Protective Conductor | M 3.5 (+,-) pozidriv 2 screw with cable clamp |

Environmental

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|---|--|
| Ambient Air Temperature | Operation -25 ... +70 °C Storage -30 ... +80 °C |
| Resistance to Shock acc. to IEC 60068-2-27 | Half-sine Pulse for 11 ms, No Change in Contact Position 50 m/s ² |
| Resistance to Vibrations | No Change in Position of Contacts Greater than 100 µs: 25g 10 ... 500 Hz |

Material Compliance

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|---|--|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 1SBD251097E1000 |
| RoHS Information | 1SBD251097E1000 |
| RoHS Status | Following EU Directive 2011/65/EU |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Certificates and Declarations

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|------------------------------------|---------------------|
| CQC Certificate | CQC2004010305127663 |
| cUL Certificate | 9AKK107991A7379 |
| Declaration of Conformity - CCC | 2020980305001785 |

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|-------------------------------------|-----------------|
| Declaration of Conformity - CE | 1SBD250883U1000 |
| Declaration of Conformity - UKCA | 1SBD250886U1000 |

Container Information

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|-----------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 45 mm |
| Package Level 1 Depth / Length | 70 mm |
| Package Level 1 Height | 140 mm |
| Package Level 1 Gross Weight | 0.3 kg |
| Package Level 1 EAN | 3471522613738 |

Classifications

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|---------------------------------------|-----------------------|
| Object Classification Code | B |
| ETIM 6 | EC000030 - End switch |
| ETIM 7 | EC000030 - End switch |
| ETIM 8 | EC000030 - End switch |
| eClass | V11.0 : 27272601 |
| UNSPSC | 39122213 |
| IDEA Granular Category Code (IGCC) | 5202 >> Limit switch |

Categories

Low Voltage Products and Systems → Control Products → Sensors → Limit Switches

