

# LS45M42B11



LS45M42B11 Limit Switch



## General Information

Extended Product Type	LS45M42B11
Product ID	1SBV013142R1211
EAN	3471522613738
Catalog Description	LS45M42B11 Limit Switch
Long Description	LS45M42B11 Limit Switch

## Ordering

EAN	3471522613738
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

## Dimensions

Product Net Width	40 mm
Product Net Weight	0.3 kg

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	140 mm
Package Level 1 Height	70 mm
Package Level 1 Depth / Length	45 mm
Package Level 1 Gross Weight	0.28 kg
Package Level 1 EAN	3471522613738
Package Level 2 Units	10 piece
Package Level 2 Gross Weight	2.8 kg

## Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -30 ... +80 °C
Resistance to Vibrations acc. to IEC 60068-2-6	25g (10 to 500 Hz) no change in position of contacts greater than 100 µs
Resistance to Shock acc. to IEC 60068-2-27	Half-sine Pulse for 11 ms, No Change in Contact Position 50 m/s <sup>2</sup>
RoHS Status	Following EU Directive 2011/65/EU

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**Technical UL/CSA**

Pilot Duty of Contact Elements acc. UL508

A600  
Q600

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**Additional Information**

Action Type of the Contact Element (acc. to IEC 60947-5-1 snap action contacts 5-1)

Actuator Type	Ø22 mm stainless steel roller lever
Actuation Speed	acc. to IEC 60947-5-1 Max. 1.50 MTS acc. to IEC 60947-5-1 Min. 0.00 MTS
Actuation Torque	acc. to IEC 60947-5-1 Min. 0.15 N·m
Angular Head Adjustment	adjustable head every 90°
Angular Lever Adjustment	9° in 9°
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, $q = 40$ °C 10 A
Connecting Capacity	Bar AWG 20 ... AWG 14 Bar 0.5 ... 2.5
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
Maximum Electrical Switching Frequency	3600 cycles per hour
Mechanical Durability	25 million
Mounting by Screws (not supplied)	2 or 4 x M5 screws
Mounting Position	all positions are authorised
Movement to be Detected	30° Cam Translation Movement
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number and Type of Bottom Cable Glands	1/2 NPT cable gland
Operating Head Shape	A shape acc. EN 50041
Order Multiple	1 piece
Positive Opening Operation Torque (Direct Opening Action)	Minimum Torque acc. to IEC 60947-5-1 0.32 N·m
Positive Opening Operation of NC Contact(s)	Yes
Product Main Type	LS40
Product Name	Limit Switch
Rated Frequency (f)	Supply Circuit 50 60 Hz
Rated Impulse Withstand Voltage ( $U_{imp}$ )	6 kV
Rated Insulation Voltage ( $U_i$ )	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Operational Current AC-15 ( $I_e$ )	(230 V AC) 3.1 A (240 V) 3 A (400 V) NC 1.8 A (130 V) 5.5 A (24 V) 10 A
Rated Operational Current DC-13 ( $I_e$ )	(24 V) 2.8 / 67.2 A (250 V) 0.27 / 67.5 A (110 V) 0.6 / 66 A
Resistance Between Contacts	25 E45

RoHS Date	20171115
Standards	IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL 508 and CSA C22-2 N°14
Terminal Marking	according to EN 50013
Terminal for Protective Conductor	M 3.5 (+,-) pozidriv 2 screw with cable clamp

### Certificates and Declarations (Document Number)

Data Sheet, Technical Information	AC1300
Declaration of Conformity - CE	1SBD250883U1000
Environmental Information	1SBD250103E1000
Instructions and Manuals	AC1300
RoHS Information	1SBD250883U1000

### Classifications

ETIM 4	EC001829 - Position switch modular
ETIM 5	EC001829 - Position switch modular
ETIM 6	EC000030 - End switch
ETIM 7	EC000030 - End switch
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

### Categories

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

