

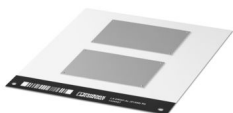
LS-EMSP-AL (91X60) R0 - Device marker



1438087

<https://www.phoenixcontact.com/gb/products/1438087>

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Your advantages

- Aluminum equipment marking for screwing or riveting
- Identification made from metal, high strength in a lightweight design
- Increased durability due to the decoratively anodized surface

Commercial data

Item number	1438087
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BG241D
Product key	BG241D
GTIN	4063151814571
Weight per piece (including packing)	74.56 g
Weight per piece (excluding packing)	39.35 g
Customs tariff number	76169990
Country of origin	CN

Technical data

Product properties

Product type	Device marking
Type	Laser sheet

Marking

Number of individual labels	2
Identification technology	Direct laser marking

Mounting

Mounting type	screw, rivet
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Material specifications

Color	aluminum color
Material	Aluminum
Components	free from silicone, halogen, and cadmium

Environmental and real-life conditions

Test for substances that would hinder coating with paint or varnish

Result	Test passed
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Test for substances that would hinder coating with paint or varnish

Result	Test passed
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Scratch test for the determining scratch resistance

Specification	DIN EN ISO 1518-1:2019-10 (following)
Requirements	≥ 5 N
Result	Test passed

Tesafilm test

Specification	DIN EN ISO 2409:2013 (following)
Result	Test passed

UV resistance

Specification	ISO 4892-2:2013-03 (following)
Result	Test passed
Test duration	96 h

Weathering-resistance

Specification	ISO 4892-2:2013-03
Result	Test passed
Test duration	500 h
Procedure	A

Temperature resistance

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Specification	ANSI/UL 969-2018:03 (following)
Test duration	240 h
Rating 225 °C (250 °C)	Test passed

Wipe resistance of inscriptions

Specification	DIN EN 61010-1 (VDE 0411-01):2020-03
	DIN EN 62208 (VDE 0660-511):2012-06 (in parts)
Isopropyl [CAS No. 67-63-0]	Test passed
n-Hexane [CAS No. 110-54-3]	Test passed
Water + Petroleum ether [CAS No. 64742-82-1]	Test passed
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [CAS No. 67-64-1]	Test passed
Specification	ISO 175:2010 (following)
Test duration	168 h
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [CAS No. 67-64-1]	Test passed
IRM 901	Test passed
IRM 902	Test passed

Testing in a condensation changing climate in the presence of sulfur dioxide

Specification	DIN 50018:2013-05
Result	Test passed
Climate level	AHT 1.0 S
Cycles	2

Salt spray test

Specification	DIN EN 60068-2-11:2000-02
Result	Test passed
Test duration	96 h

Salt spray test

Specification	ISO 9227:2012-05
Result	Test passed
Test duration	336 h

High pressure test

Specification	ISO 20653:2013-02
Result	Test passed

Ambient conditions

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Ambient temperature (operation)	-25 °C ... 120 °C (At temperatures above 80 °C there might be a slight change to the material surface)
Recommended ambient temperature (storage/transport)	23 °C
Recommended humidity (storage/transport)	50 %

Dimensions

Width	100 mm
Length	60 mm
Hole diameter	3.00 mm
Material strength	0.80 mm

Standards and regulations

Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
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Notes

Note on application	Contrary to the usual standard, this marker has been designed without a corner radius (R = 0!)
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Classifications

ECLASS

ECLASS-11.0	27281103
ECLASS-12.0	27281103
ECLASS-13.0	27281103

ETIM

ETIM 9.0	EC001288
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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