

Fraunhofer

TESTED[®] DEVICE

KUKA Deutschland GmbH KMRiisy CR

Report No. KU 2302-1396

Statement of Qualification

Single product **Electrostatic Charge Behavior**





Statement of Qualification • Single product

Customer KUKA Deutschland GmbH

Zugspitzstrasse 140 86165 Augsburg Germany

Component tested

Category: Automation Components

Subcategory: Robotics

Product name: KMRiisy CR

(manufacturing date: 4/12/2023; article number: 16010348; serial number:

1041360)

Measurement of charge behavior

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

SEMI E78-0222

The norms stated generally refer to the version valid at the time of the tests.

- Deceleration: -0.3 m/s²
 Attached payload: m = 200 kg
 Capacity/Utilization: 87,66 % of maximum capacity

Test result / Classification

The robot KMRiisy CR fulfills the permissible limit values of 8.5 V/cm (0.85 kV/m) for the sensitivity threshold 2033/7.7 nm / 2010/45 nm according to SEMI E78-0222.

Electrostatic field			
Electrostatic level		Test result	
Year Node	limit value [V/cm]	mean value [V/cm]	max. single value measured [V/cm]
2033 7.7 nm	8.5	5	10
Limit value (except the vincinity ¹⁾ of the Wi-Fi antenna):		fulfilled	
2010 45 nm	50	31	100
Limit value (in the vincinity ¹⁾ of the Wi-Fi antenna):		fulfilled	
1) sphere with a radius of < 305 mm around the antenn			

1) sphere with a radius of ≤ 305 mm around the antenna

Note: The instructions given in the user documentation from KUKA Deutschland GmbH must be observed. Only dissipative may be used in the handling area. It is best to do without a sticker on the product in the handling area.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany KU 2302-1396 Stuttgart, December 14, 2023

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on behalf of RT Bring

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