





Fraunhofer TESTED[®] DEVICE KUKA Deutschland GmbH LBR iisy 11 R1300 CR Report No. KU 2303-1404

Statement of Qualification

Single product Electrical Resistance

Statement of Qualification • Single product

Customer	KUKA Deutschland GmbH Zugspitzstrasse 140 86165 Augsburg Germany	Test result / Classification	The robot LBR iisy at representative p to groundable poi limits of the limitir protective elemen	he robot LBR iisy 11 R1300 CR was examined for its electrical resistance t representative points in accordance with IEC 61340-2-3. The resistance o groundable point (R_{gp}) values obtained from the test piece lies within the imits of the limiting value of 1 x 10 ⁹ Ω required by IEC 61340-5-1 for ESD protective elements.				
Component tested Category:	Automation Components		Measuring point	Operating voltage [V]	R _{gp 1} ¹⁾ [Ω]	R _{gp 2} ¹⁾ [Ω]	Compliance with limit va- lue as per IEC 61340-5-1	
Subcategory: Product name:	Robotics LBR iisy 11 R1300 CR (manufacturing date: 1/10/2024; color: white and orange; weight: 46.3 kg; serial number: 4561014)		Contact point 1	10	< 1 x 10 ³	< 1 x 10 ³	fulfilled	
			Contact point 2	10	< 1 x 10 ³	< 1 x 10 ³	fulfilled	

. on the robot base

Electrical resistance measurements at representative points (resistance to groundable point (R _{gp}) and point-to-Point resistance (R _{p-p}))					
Standards/Guidelines:	IEC 61340-2-3, -5-1 The norms stated generally refer to the version valid at the time of the tests.				
Test devices:	• Data capture: – Type:				
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):ISO 1 Airflow velocity:0.45 m/s Airflow pattern:vertical laminar flow Temperature:22 °C ± 0.5 °C Relative humidity:45 % ± 5 % 				
Test procedure parameters:	 Insulating support: Model:				

• Groundable points:

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

KU 2303-1404 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

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Report No. current document



¹⁾ R_{ap}: Resistance to groundable point

Stuttgart, May 22, 2024	
Place, date of first document issued	
Place, current date	
in	

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com