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TESTED[®] DEVICE

FANUC Europe Corporation S.A. M-20iB\25C

Report No. FA 1705-911

Statement of Qualification

Electrostatic Resistance





Statement of Qualification

Customer FANUC Europe Corporation S.A.

> rue Benedikt Zender 7 6469 Echternach Luxembourg

Component tested

Category: **Automation Components**

Subcategory: Robotics

Product name: M-20iB\25C in white paint/25 kg standard cleanroom (A05B-1226-B221)

(manufacturing date: 9/2/2017; serial number: E-95294)

Electrostatic discharge measurements at representative points (resistance to earth)

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

DIN EN 61340-4-1; DIN EN 61340-2-3

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

Data capture: Tera-Ohm Meter Model 6206,Eltex (Weil am Rhein)

- Airflow pattern: vertical laminar flow
- Type:.....4x insulating feet fully-insulated hexagonal feet with $R > 10^{12} \Omega$ - Material:glass-filled polyester
- Contact point: metallic flange for mounting tools
- Earthing point:.....at base of robot



Test result/Classification

The robot M-20iB\25C in white paint/25kg standard cleanroom (A05B-1226-B221) was examined for its resistance to earth in accordance with DIN EN 61340-2-3. The test result lies below the required maximum value of 1 x $10^9 \Omega$ according to DIN EN 61340-5-1 for ESD protective elements.

	Operating voltage [V]	Resistance $[\Omega]$	Compliance with limit value as per DIN EN 61340-5-1
Resistance to earth	10	< 2 x 10 ⁵	fulfilled



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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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FA 1705-911

Stuttgart, October 18, 2017 Place, date of first document issued

Report No. current document Place, current date

on behalf of RM

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