



Fraunhofer

TESTED[®] DEVICE

Schneider Electric A. GmbH
PAS42BBM1000A1SAxxxR
Report No. SC 1706-921

Particle Emission

Qualification Certificate

This is to certify that the product mentioned above, provided by
Schneider Electric Automation GmbH
Lahr, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number SC 1706-921.

When operated under the specified test conditions, the Lexium
PAS B toothed belt axis (160N toothed belt tension)_Stroke
1000mm/PAS42BBM1000A1SAxxxR is suitable for use in clean-
rooms fulfilling the specifications of the following Air Cleanliness
Classes according to ISO 14644-1:

| Test parameter(s) | Air Cleanliness Class |
|--|-----------------------|
| $v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$ | 5 |
| $v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$ | 6 |
| $v_3 = 1.8 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$ | 6 |
| Overall result | 6 |

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

SC 1706-921
Report No. first document

Stuttgart, September 8, 2017
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

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