DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

BorgWarner Ludwigsburg GmbH
Mörikestraße 155
71636 Ludwigsburg

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

Electromagnetic Compatibility (EMC)

The accreditation certificate shall only apply in connection with the notice of accreditation of 2020-12-07 with the accreditation number D-PL-12096-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 03 pages.

Registration number of the certificate: **D-PL-12096-01-00**

Frankfurt am Main, 2020-12-07

Dipl.-Ing. (FH) Ralf Egner
Head of Division

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
https://www.dakks.de/en/content/accredited-bodies-dakks

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Standort Berlin
Spittelmarkt 10
10117 Berlin

Standort Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Standort Braunschweig
Bundesallee 100
38116 Braunschweig

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council setting out the requirements for accreditation and market surveillance relating to the marketing of products. DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12096-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **2020-12-07**

Date of issue: 2020-12-07

Holder of certificate:

BorgWarner Ludwigsburg GmbH
Mörikestraße 155
71636 Ludwigsburg

Tests in the fields:

Electromagnetic Compatibility (EMC)

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing standards / equivalent testing procedures within the flexible scope of accreditation.

Department	Standard / in house procedure / Version	Title of standard or in house procedure	Test area / reductions
EMC	ISO 7637-2:2011	Road vehicles — Electrical disturbances from conduction and coupling — Part 2: Electrical transient conduction along supply lines only	

The management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH. https://www.dakks.de/en/content/accredited-bodies-dakks

Department	Standard / in house procedure / Version	Title of standard or in house procedure	Test area / reductions
EMC	ISO 7637-3:2007	Road vehicles — Electrical disturbances from conduction and coupling — Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	
EMC	ISO 10605:2008	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	
EMC	ISO 10605:2008 Amendment 1: 2014	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	
EMC	ISO 10605:2008 Technical Corrigendum 1: 2010	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	
EMC	ISO 11452-2:2004	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2: Absorber-lined shielded enclosure	
EMC	ISO 11452-4:2011	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4: Harness excitation methods	
EMC	ISO 11452-5:2002	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 5: Stripline	

Department	Standard / in house procedure / Version	Title of standard or in house procedure	Test area / reductions
EMC	ISO 11452-8:2007	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8: Immunity to magnetic fields	
EMC	ISO 16750-2:2012	Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 2: Electrical loads	
EMC	CISPR 25:2008	Vehicles, boats and internal combustion engines — Radio disturbance characteristics — Limits and methods of measurement for the protection of on-board receivers	Only tests of components: - CE (voltage and current method) - RE (ALSE and stripline method)
EMC	CISPR 25:2008 Corrigendum 1: 2009	Vehicles, boats and internal combustion engines — Radio disturbance characteristics — Limits and methods of measurement for the protection of on-board receivers	Only tests of components: - CE (voltage and current method) - RE (ALSE and stripline method)