



World Class Accreditation

The American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

## NIDEC MOTORS & ACTUATORS

*Auburn Hills, MI*

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 6th day of May 2009.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO

For the Accreditation Council

Certificate Number 1996.01

Valid to May 31, 2011

Revised February 15, 2010



*For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NIDEC MOTORS & ACTUATORS  
1800 Opdyke Ct.  
Auburn Hills, MI 48326  
John Suriano Phone: 248 340 9977 ext. 1133

ELECTRICAL (AEMCLAP)<sup>1</sup>

Valid to: May 31, 2011

Certificate Number: 1996.01

In recognition of the successful completion of the A2LA and the Automotive EMC Laboratory Accreditation Program (AEMCLAP)<sup>1</sup> evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility tests:

**Test Technology**

**Test Method(s)**

***AEMCLRP<sup>(1)</sup> (Rev. 4) Recognized Tests  
and Addendum May 25, 2007***

***Electrostatic Discharge (ESD)  
Appendix D***  
(Chrysler, Ford, GM)  
Test Set-up Designation:  
SR-1

ISO 10605 (2001);  
DC-11224 (2007/06), Section 10.1;  
Ford ES-XW7T-1A278-AC (CI 280);  
GMW 3097 (2006) Section 3.6

***Conducted Emissions  
Voltage and Current Methods  
Appendix F***  
(Chrysler, Ford, GM)  
Test Set-up Designation:  
ALSE-1

CISPR 25 (2002, 2008) Sections 6.2, 6.3;  
DC-11224 (2007/06), Sections 6.2, 6.3;  
Ford ES-XW7T-1A278-AC (CE420);  
GMW 3097 (2006) Section 3.3.2

***Radiated Emissions  
Appendix G***  
(Chrysler, Ford, GM)  
Test Set-up Designation:  
ALSE-1

CISPR 25 (2002, 2008), Section 6.4;  
DC-11224 (2007/06), Section 6.4;  
ES-XW7T-1A278-AC (RE 310);  
GMW 3097 (2006) Section 3.3.1

**Other Non-AEMCLRP Tests**

**Test Technology**

**Test Method(s)**

Conducted Transient Emissions

ISO 7637-2; SAE J1113-42;  
DC 11224 Section 6.5;  
Ford: ES-XW7T-1A278-AC Section 9.0 (CE 410);  
GM: GMW3097 Section 3.5.1  
CS11809 (2009-05) Section 5.4

Electrostatic Discharge (ESD)

CS11809 (2009-06) Section 7.1

Conducted Emissions  
Voltage & Current Methods

CS11809 (2009-05) Section 5.1

Radiated Emissions

CS11809 (2009-05) Section 5.3

Conducted Transient Immunity – Power Lines

ISO 7637-2 (except Pulse 2b, 5); SAE J1113-11;  
DC 11224 Section 9.1;  
Ford: ES-XW7T-1A278-AC Section 14.0 (CI 220),  
Pulses D-F;  
GM: GMW3097 Section 3.5.2  
CS11809 (2009-06) Section 6.4.1

Conducted Transient Immunity – Signal Lines

ISO 7637-3 (2007) Section 3.4.2, 3.4.3;  
ISO 7637-3 (1995);  
DC 11224 Section 9.2.3, 9.2.4;  
GM: GMW3097 Section 3.5.3, 3.5.4  
CS11809 (2009-06) Sections 6.4.2, 6.4.3

Magnetic Field Emissions

MIL-STD-461F Section 5.15

Magnetic Field Immunity  
Helmholtz Coil

DC 11224 Section 8.0;  
Ford: ES-XW7T-1A278-AC Section 11.0 (RI 140);  
GM: GMW 3097 Section 3.4.4;  
MIL-STD-461E Section 5.19.4  
CS11809 (2009-06) Section 6.3  
ISO 11452-8 (2007-07) Helmholtz Only

<sup>1</sup> A2LA provides Accreditation for the Automotive EMC Laboratory Recognition Program (AEMCLRP) which is designated as the Automotive EMC Laboratory Accreditation Program (AEMCLAP). Chrysler, Ford Motor Company (Ford) and General Motors Corporation (GM) provide overall recognition as part of the AEMCLRP document (Fourth Edition, 01/27/06 and Addendum May 25, 2007 with Chrysler Addendum to DC-11224 (2007/06) and DC-11225 (2007/07) with Addendum to DC-11224/5 Rev A dated April, 2008 and Ford Corrections or Requirements to ES-XW7T-1A278-AC Updated June 7 2006 and September 18 2007).

The AEMCLRP document is available on the A2LA web site ([www.a2la.org](http://www.a2la.org)). Accreditation to the A2LA AEMCLAP requirements does not ensure recognition by the aforementioned organizations. Confirmation of recognition can be obtained from these organizations directly. If any items are not covered by AEMCLRP Rev.4 or there are any conflicts among the documents, the actual issued test method standards of Chrysler, Ford Motor Company and General Motors Corporation and OEM issued corrections/addendums these will supersede AEMCLRP Rev. 4 and Addendum May 25, 2007.