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2015-02-19

Beteckning/Refer  
2014/1953

**Akrediteringens omfattning / Scope of accreditation**

Saab AB, Support and Services, Infrastructure and Land Systems, OFFBI/EMC, Östersund - 1253

Standard Standard	Utgåva Edition	Årtal Year	Standardtitel Title of standard	Kommentarer Comments	Fält- provning Field test
<b>Bas standarder/Basic standards</b>					
EN 61000-4-2 SS-EN 61000-4-2 IEC 61000-4-2	- 2 2	2009 2009 2008	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques Electrostatic discharge immunity test		Ja/Yes
EN 61000-4-3 SS-EN 61000-4-3 IEC 61000-4-3	- 3 3	2006 2006 2006	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	Inklusive/Including: Amendment A1:2008 (IEC 2007) Amendment A2:2010 Frequency range 26MHz – 3GHz	
EN 61000-4-4 SS-EN 61000-4-4 IEC 61000-4-4	- 3 3	2012 2012 2012	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test -		Ja/Yes
EN 61000-4-5 SS-EN 61000-4-5 IEC 61000-4-5	- 2 2	2006 2006 2005	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test		Ja/Yes
EN 61000-4-6 SS-EN 61000-4-6 IEC 61000-4-6	- 3 3	2009 2009 2008	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio- frequency fields	Frequency range 150kHz – 230MHz	Ja/Yes

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EN 61000-4-8 SS-EN 61000-4-8 IEC 61000-4-8	- 2 2	2010 2010 2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test		
EN 61000-4-11 SS-EN 61000-4-11 IEC 61000-4-11	- 2 2	2004 2004 2004	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Measurement on three-phase power equipment excluded.	Ja/Yes
EN-55016-2-1 SS-EN 55016-2-1 CISPR 16-2-1	2 2 2	2009 2009 2008	Specification for radio disturbance and immunity measuring apparatus and methods Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	Inklusive/Including: Amendment A1:2011 (CISPR 2010) Also including IN SITU	Ja/Yes
EN 55016-2-3 SS-EN 55016-2-3 CISPR 16-2-3	- 3 3	2010 2010 2010	Specification for radio disturbance and immunity measuring apparatus and methods Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	Inklusive/Including: Amendment A1:2010 Measurement in SAC, and IN SITU and on OATS up to 1 GHz	Ja/Yes

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			<b>Produktfamiljstandarder/Productfamily standards</b>		
EN 55011 SS-EN 55011	- 4	2009 2010	Industrial, scientific and medical (ISM) radio-frequency equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 11:2009, modified)	Inklusive/Including: Amendment A1:2010 Undantaget mätning över 1 GHz. Also including IN SITU	Ja/Yes
EN 55022 SS-EN 55022	- 4	2010 2011	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 22:2008, modified)	Measurement above 1 GHz excluded Telecommunication ports excluded	Ja/Yes
EN 12895 SS-EN12895	1 1	2000 2000	Industrial trucks – Electromagnetic compatibility		

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<b>Generella standarder/Generic standards</b>					
EN 61000-6-1 SS-EN 61000-6-1 IEC 61000-6-1	- 2 2	2007 2007 2005	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments		
EN 61000-6-2 SS-EN 61000-6-2 IEC 61000-6-2	- 3 3	2005 2005 2005	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments		
EN 61000-6-3 SS-EN 61000-6-3 IEC 61000-6-3	- 2 2	2007 2007 2006	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments	Inklusive/Including: Amendment A1:2011 Excluding measurement of telecommunication ports	
EN 61000-6-4 SS-EN 61000-6-4 IEC 61000-6-4	- 2 2	2007 2007 2006	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments	Inklusive/Including: Amendment A1:2011 Undantaget mätningar på telekommunikationsportar	

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Standard Standard	Utgåva Edition	Årtal Year	Standardtitel Title of standard	Kommentarer Comments	Fält- provning Field test
			Provmetoder för fordonskomponenter/ Testing methods vehicle components		
EN ISO 14982 SS-EN ISO 14982	2 2	2009 2009	Agricultural and forestry machines - Electromagnetic compatibility - Test methods and acceptance criteria (ISO 14982:)	Only testing of ESA according to 6.4 (annex D), 6.5 (annex E) and 6.6 Accreditation is valid insofar as the required basic standards are stated elsewhere in this scope.	
ISO 11452-1 SS-ISO 11452-1	3 3	2005 2005	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1: General and definitions	Inklusive/Including: Amendment A1:2009	
ISO 11452-2 SS-ISO 11452-2	2 2	2004 2004	Road vehicles - Electrical disturbances by narrowband radiated electromagnetic energy – Component test methods - Part 2: Absorber-lined chamber	Frequency range 80 MHz – 18GHz	
ISO 11452-4 SS-ISO 11452-4	3 3	2005 2005	Road vehicles – Component test methods for electrical disturbances by narrowband radiated electromagnetic energy – Part 4: Bulk current injection (BCI)	Inklusive/Including: Corrigendum Cor. 1:2009	
EN 13309 SS-EN 13309	2 2	2010 2010	Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply	Accreditation is valid insofar as the required basic standards are stated elsewhere in this scope Only testing of ESA according to 4.5 (annex D), 4.6 (annex E) and 4.7 (ISO 11452-2 and -4)	

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Standard Standard	Utgåva Edition	Årtal Year	Standardtitel Title of standard	Kommentarer Comments	Fält- provning Field test
ISO 10605 SS-ISO 10605	2 2	2008 2008	Road vehicles – Test methods for electrical disturbances from electrostatic discharge	Inklusive/Including: Corrigendum Cor. 1:2010	Ja/Yes
EN 55025 SS-EN 55025 CISPR 25	- 2 3	2008 2008 2008	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	Only testing of components and modules according to 6	
<b>ISO 7637-2</b> <b>SS-ISO 7637-2</b>	<b>2</b> <b>2</b>	<b>2004</b> <b>2004</b>	Road vehicles – Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only	Inklusive/Including: Amendment Amd. 1:2008	Ja/Yes
<b>ISO 7637-2</b> <b>SS-ISO 7637-2</b>	<b>3</b> <b>3</b>	<b>2011</b> <b>2011</b>	Road vehicles – Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only		Ja/Yes
<b>ISO 16750-2</b> <b>SS-ISO 16750-2</b>	<b>4</b> <b>4</b>	<b>2012</b> <b>2012</b>	Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part 2: Electrical loads	Only testing of starting profile 4.6.3 and load dump 4.6.4	Ja/Yes

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			Militära standarder/Military standards		
DEF-STAN 59-411	1	2007	Electromagnetic compatibility Part 4: Platform and system test and trials	Inklusive/Including: Amendment Amdt1  Methods: DRE 03 DRE 04	
MIL-STD-461F	F	2007	Department of defence interface standard Requirements for the control of electromagnetic interference characteristics of subsystems and equipment	Metoderna/Methods: CE101 CE102 CS101 CS114 CS115 CS116 RE101 RE102  RS101 RS103 (Frequency range 2MHz – 18GHz)	Ja/Yes

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Standard Standard	Utgåva Edition	Årtal Year	Standardtitel Title of standard	Kommentarer Comments	Fält- provning Field test
MIL-STD-461E	E	1999	Department of defence interface standard Requirements for the control of electromagnetic interference characteristics of subsystems and equipment	Metoderna/Methods: CE101 CE102 CS101 CS114 CS115 CS116 RE101 RE102 RS101 RS103 (Frequency range 2MHz – 18GHz)	Ja/Yes
AECTP-500 (Category 501- Equipment and sub- system tests)	4	2011	Electromagnetic environmental effects test and verification	Metoderna/Methods NCE01 NCE02 NCS01 NCS07 NCS08 NCS09 NRE01 NRE02 NRS01 NRS02 (Frequency range 2MHz – 18GHz)	Ja/Yes



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M7780-251913	2	1993	Elektromagnetisk skärmning av RÖS-skyddade rum utgåva 2		Ja/Yes
M7780-251913	3	2002	Elektromagnetisk skärmning av RÖS-skyddade rum utgåva 3		Ja/Yes
			<b>Övriga standarder/Other standards</b>		
RTCA DO-160	G	2010	Environmental Conditions and Test Procedures for Airborne Equipment	Section 1, 2, 3 and 21 Frequency range 150kHz – 152MHz (conducted) + 2MHz – 6GHz (radiated)	

Provtagning omfattas inte av ackrediteringen. Om laboratoriet ändå själv utför provtagning omfattas provningen inte av ackrediteringen. Synpunkter och tolkningar omfattas inte av ackrediteringen. Om laboratoriet ändå redovisar synpunkter och tolkningar i provningsrapporten omfattas provningen inte av ackrediteringen.

Akrediteringsomfattningen är flexibel enligt vad som anges i detta beslut. Förändrade metoder där förändringarna innefattas i den flexibla ackrediteringen får, även om nytt beslut inte har utfärdats, användas som ackrediterade metoder.

The accreditation does not cover sampling activities. If the laboratory, regardless of this, performs the sampling by itself, then the testing is not considered to be performed under accreditation.

The accreditation does not cover opinions and interpretations. If the laboratory, regardless of this, expresses opinions and/or provides interpretations in the test report, then the testing is not considered to be performed under accreditation.

The scope of accreditation is flexible according to specification in this decision. Changed methods where the changes are included in the flexible scope may, even if a new decision has not been issued, be used as accredited methods.

Ändringar är markerade med **fetstil**.

Changes are highlighted in **bold**.