

CERTIFICATE OF ACCREDITATION

This is to attest that

DANFOSS INDUSTRIES PVT. LTD.,

A-19-2 SIPCOT INDUSTRIAL GROWTH CENTER, ORAGADAM VILLAGE SRIPERUMBUDUR, KANCHEEPURAM DISTRICT CHENNAI, TAMIL NADU 602105, INDIA

Testing Laboratory TL-1306

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date April 1, 2026

Effective Date March 18, 2025



International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc. 3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. 1 www.iasonline.org

DANFOSS INDUSTRIES PVT. LTD.,

Contact Name Sivakumar Paulraj

Contact Phone +919900918381

Accredited to ISO/IEC 17025:2017

Effective Date March 18, 2025

Electrical		
IEC 61800-5- 1:2007+AMD1:2016	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy Exclusions: Deformation Test Deflection Mechanical Test Partial Discharge Protective Impedance High Current Arcing Ignition Glow Wire Hot wire Ignition Flammability Vibration Test	
IEC 61800-5- 1:2022/COR1:2023	Adjustable speed electrical power drive systems-Part 5-1: Safety requirements – Electrical, thermal and energy Exclusions: Deflection Partial Discharge Protective Impedance High Current Arcing Ignition Glow Wire Hot wire Ignition Flammability Vibration Test Hydrostatic Pressure Cemented Joints Test UV Resistance Test Strain Relief Test Isolating means and Interlock integrity Test Acoustic Nois Test Thin Sheet material Test Test Procedure For Separable thin sheet material Mandrel Test Salt mist Test Dust Test Sand Test	



SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

	Electromagnetic Fields
	Internal SPD monitoring Test
IEC 61800-5-2	Adjustable speed electrical power drive systems - Part 5-2: Safety requirements – Functional
	Inclusion: 4.2.3.2 Safety Torque Off (STO)
TDP-3835	STO functional verification - Functional Safety (Internal Test Method)
EMC	
CISPR 11	Industrial, scientific and medical equipment - Radio-frequency disturbance char- acteristics - Limits and methods of measurement
	Inclusion: Conducted Emission Test
IEC 60146-1-1	Semiconductor converters - General requirements and line commutated converters Commutation Notch
	Inclusion: 5.4.1 Commutation notch
IEC 61000-2-4	Electromagnetic compatibility (EMC) - Part 2-4: Environment - Compatibility levels in power distribution systems in industrial locations for low-frequency conducted disturbances
	Inclusions: 5.4 Voltage imbalance 5.6 Voltage Harmonic Distortion
IEC 61000-3-11:2017	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection
IEC 61000-3-12	Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and \leq 75 A per phase
IEC 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase



SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-28	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test
IEC 61000-4-34	Electromagnetic compatibility (EMC) - Part 4-34: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase
IEC 61800-3	IEC 61800-3: 2022 Adjustable speed electrical power drive systems - Part3: EMC requirements and specific test methods for PDS and machine tools
	Inclusions: 5.2.1 Harmonics 5.2.2 Voltage dips and short interruptions 5.2.3 Frequency variations 5.3.2 ESD for Residential, commercial and light industrial environment, 5.3.3 ESD for industrial environment 6.3.1 Harmonics line current emission 6.3.2 Voltage fluctuations and flicker 6.4.1.2 Conducted emission B.1 Commutation Notches B.5 Voltage unbalance
SEMI F47	Voltage Sag Immunity Standard
Environmental	
IEC 60068-2-1	Environmental testing - Part 2-1: Tests - Test A: Cold
IEC 60068-2-2	Environmental testing - Part 2-2: Tests - Test B: Dry heat
IEC 60068-2-30	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)
IEC 60068-2-78	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state
IEC 60529	Degrees of protection provided by enclosures (IP Code) Inclusions: 14.2.5 - Test for Second Characteristic numeral 5 with the 6.3 mm Nozzle 14.2.6 - Test for Second Characteristic Numeral 6 with 12.5 mm Nozzle 13.2 - Test conditions for First Characteristic numerals 2,4
UL 50E	Enclosures for Electrical Equipment, Environmental Considerations Inclusions: 8.4.2.1.2 Atomized-water method (Method A) 8.6 Hosedown test

