



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

A.C. & E. s.r.l.

Via Del Perlar, 37/A, Verona (VR), 37135

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Electrical Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

December 8, 2020

Revision Date:

August 07, 2022

Issue Date:

March 2, 2021

Accreditation No.:

113455

Expiration Date:

June 30, 2023

Certificate No.:

L21-161-R2

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

A.C. & E. s.r.l

Via Del Perlar, 37/A, Verona (VR), 37135
 Contact Name: Dott.ssa Cristina Alba Phone: 045/8200894

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Electrical ^o	Low-voltage switchgear and controlgear assemblies Part 1: General rules	Power-frequency withstand voltage	IEC 61439-2:2020 + IEC 61439-1:2020 CEI EN 61439-2:2012 + CEI EN 61439-1:2012 § 10.9.2	Dielectric strength up to 5 kV Grounding and bonding up to 25 A Insulation resistance up to 1 000 V
	Electrical equipment of machines	Continuity of the equipment grounding circuit	NFPA 79:2021 NFPA 79:2018, NFPA 79:2015, NFPA 79:2012, NFPA 79:2007 § 18.2 (2)	1 A to 10 A (50 mΩ to 500 mΩ) 10.01 A to 25 A (50 mΩ to 500 mΩ)
		Part 1: Safety of machinery – Electrical equipment of machines – Part 1204: General requirements: Test 1 - Verification of the continuity of the protective bonding circuit	AS/NZS 4024.1204 ed 2019	1 A to 10 A 50 mΩ to 500 mΩ 10.01 A to 25 A 50 mΩ to 500 mΩ
		Safety of machinery – Electrical equipment of machines – Part 1204: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation)	AS/NZS 4024.1204 ed 2019	N/A
		Part 1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 1 - Verification of the continuity of the protective bonding circuit	AS 60204.1-2005 § 18.2.2	1 A to 10 A (50 mΩ to 500 mΩ) 10.01 A to 25 A (50 mΩ to 500 mΩ)
		Part 1 General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation)	AS 60204.1-2005 § 18.2.3	N/A



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Electrical ^o	Electrical equipment of machines	Part1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 1 - Verification of the continuity of the protective bonding circuit	CEI EN 60204-1:2006 CEI EN 60204-1:2018 IEC 60204-1:2016 § 18.2.2	1 A to 10 A (50 mΩ to 500 mΩ)
		Part 1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation)	CEI EN 60204-1:2006 CEI EN 60204-1:2018 IEC 60204-1:2016 § 18.2.3	N/A
		Part1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 1 - Verification of the continuity of the protective bonding circuit	JIS B 9960-1 ed. 2019 § 18.2.2	1 A to 10 A 50 mΩ to 500 mΩ 10.01 A to 25 A 50 mΩ to 500 mΩ
		Part 1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation)	JIS B 9960-1 ed. 2019 § 18.2.3	N/A
		Part1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 1 - Verification of the continuity of the protective bonding circuit	EN 60204-1:2018 § 18.2.2	1 A to 10 A 50 mΩ to 500 mΩ 10.01 A to 25 A 50 mΩ to 500 mΩ
		Part 1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation)	EN 60204-1:2018 § 18.2.3	N/A



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Electrical ^o	Electrical equipment of machines	Part 34: Requirements for machine tools. Verification of conditions for protection by automatic disconnection of supply. Verification of continuity of the protective bonding circuit (Test 1 according to § 18.2.2 of IEC 60204-1)	IEC TS 60204-34:2016 § 18.1 b	1 A to 10 A (50 mΩ to 500 mΩ)	
				10.01 A to 25 A (50 mΩ to 500 mΩ)	
	Industrial control equipment	Dielectric strength	CSA C22.2 n°14-18 § 6.8	Dielectric strength up to 5 kV	
	Industrial control panels and assemblies	Dielectric strength test	CSA C22.2 n°286-17 § 7.3		
	Industrial electrical machinery	Dielectric strength test	CSA C22.2 n°301-16 § 19.4		
	Low-voltage switchgear and controlgear assemblies	Part 1: General rules Part 2: Power switchgear and control gear assemblies	AS/NZS 61439-1:2016 + AS/NZS 61439-2:2016 § 10.9.2	Dielectric strength up to 5 kV Grounding and bonding up to 25 A Insulation resistance up to 1 000 V	
Assembled protection and switching equipment for low voltage (LV panels)	Part 1: General rules. Withstand voltage at operating frequency	GOST IEC 61439-2:2015 + GOST IEC 61439-1:2013 § 10.9.2			
Electrical ^o	Electrical equipment of machines	Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation) Part 1: General requirements. Verification of the protection conditions for automatic disconnection of the power supply: verification of the impedance of the fault loop associated with the overcurrent protection device (by calculation)	GOST R IEC 60204-1:2007 § 18.2.3	N/A	
				Part 1: General requirements. Verification of the protection conditions for automatic disconnection of the power supply: Test 1 - verification of the continuity of the protective equipotential circuit	1 A to 10 A (50 mΩ to 500 mΩ)
					10.01 A to 25 A (50 mΩ to 500 mΩ)



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Electrical ^O	Electrical equipment of machines	Part 1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 1 - Verification of the continuity of the protective bonding circuit	SASO IEC 60204-1:2016 § 18.2.2	1 A to 10 A (50 mΩ to 500 mΩ) 10.01 A to 25 A (50 mΩ to 500 mΩ)
		Part 1: General requirements. Verification of conditions for protection by automatic disconnection of supply: Test 2 - Fault loop impedance verification and suitability of the associated overcurrent protective device (calculation)	SASO IEC 60204-1:2016 § 18.2.3	N/A
Electrical ^{FO} (calculation)	Safety of machinery	Safety-related parts of control systems - Part 1: General principles for design by calculation (limited to verifying reached Performance Level) (Calculation)	ISO 13849-1:2015	
	UV-C Lamps	UV-C lamp power and exposure time with reference to the abatement coefficient of viruses, bacteria, fungi and spores (Calculation)-rev00 Jan2021 Not normalized method	Not normalized method – Calculation of the level of abatement of viruses, bacteria, fungi and spores using UV-C lamps both in static mode and in air ducts	
Electrical ^{FO} (calculation)	Electrical equipment of machines Motor and generator	Rotating Electrical Machines - General Requirements Temperature rise resistance method – calculation	UL1004-1; ed. 2017	N/A
		Rotating Electrical Machines - General Requirements Temperature rise resistance method – calculation	CSA C22.2 n 100; ed. 2019	N/A
		Rotating Electrical Machines - General Requirements Temperature rise resistance method – calculation	IEC60034-1; ed. 2017	N/A

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.
2. The presence of a superscript FO means that the laboratory performs testing of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this testing at its fixed location and onsite at customer locations