

Standard Information

Standard Number: UL 1004-1

Standard Name: Rotating Electrical Machines – General Requirements

Standard Edition and Issue Date: 2nd Edition Dated September 19, 2012

Date of Revision: June 22, 2016

Date of Previous Revision to Standard: 2nd Edition Dated June 18, 2015

Effective Date of New/Revised Requirements

Effective Date (see Schedule below): **June 22, 2017**

Impact, Overview, Fees and Action Required

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes (Specific details of new/revised requirements are found in table below):

- Addition of requirements for a generator grounding method
- Revision to narrow the scope of UL 1004-1 to motors rated 1,000 V or less. 1,000 V and up to 7,200 V are now covered under UL 1004-9

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Schedule: So that shipping of products with Listing Marks will not be interrupted, an **approximate** schedule has been established to ensure Listing Reports are found compliant by Effective Date:

- October 21, 2016 = 8 Month Report Review – Intertek will review all Reports. Update if compliance is verified or issue Findings Letter/Quote for any re-evaluations needed
- December 22, 2016 = 6 Month Quote Cut-off – Quotes returned for necessary re-evaluations
- **June 22, 2017** = Effective Date – ATM Suspended for all non-compliant Reports

Fees: An initial review of Listing Report (s) will be covered by a direct billing project and will be invoiced at not more than \$1000 per report.

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Standards Update Notice (SUN)

Issued: July 21, 2016

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

Description of New/Revised Technical Requirements

Clause	Verdict	Comment
1	Info	Scope
1.1		<p>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</p> <p>This Standard applies to <u>form wound rotating electrical machines rated less than 460 volts</u> <u>and all other rotating electrical machines</u> and linear motors, both AC and DC, rated 7,200 <u>1,000</u> volts or less.</p>
10.6.1		<p><i>New clause added;</i></p> <p>A generator shall provide in a location inaccessible from outside the assembly in its end use application:</p> <p>a) A flat, unpainted, corrosion protected, surface integral with or irreversibly connected to the generator barrel that is properly sized for the generator's fault current capability; and</p> <p>b) Tapped with a hole or holes for machine thread fasteners or other approved method for securing any grounding conductor(s) for equipment provided with the generator and grounding conductor terminals properly sized for the generator's fault current capability.</p> <p>Exception: The generator foot or mounting location shall not be prohibited as a secondary location when all criteria in (a) are satisfied elsewhere on the generator.</p>
Table 18.2 & Table 18.4		<p>Tables 18.2-Minimum acceptable spacings at field wiring terminals for voltages over 750 V & Table 18.4 - Minimum acceptable spacings at other than field-wiring terminals – have been revised to remove all voltage rating above 1000 Volts per the scope change referenced above.</p>
		<p>CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.</p>