



# Certificate of Compliance

**Certificate:** 1019302

**Master Contract:** 166631

**Project:** 80089425

**Date Issued:** 2024-05-17

**Issued To:** Moteurs Leroy-Somer SAS  
Boulevard Marcellin Leroy  
CS 10015, Angouleme Cedex 9, Charente, 16915  
FRANCE  
Attention: Charlotte BEAU

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*

**Issued by:** Ioan Goga  
Ioan Goga, P. Eng.



## **PRODUCTS**

CLASS - C421101 - MOTORS AND GENERATORS Motors and Generators

CLASS - C421181 - MOTORS AND GENERATORS Certified to US Standards

Alternators, shunt and AREP excitation, self-regulated, guarded type or standard machine without terminal box, horizontal or vertical, foot or flange mounting, up to 1600kW max continuous 1696kW max stand-by rating at 0.8 or 1.0 power factor, 600V or less, 1 or 3 phase, 50 or 60Hz, Class F or H insulation, Types :

- a) **LSA#40**, or  
**L#11**, or  
**AT00263, AT00310, AT00351, AT00390, AT00440 and AT00521**, or  
**KH00263, KH00310, KH00351, KH00390, KH00440 and KH00521**;
- b) **LSA#42.2**, or  
**L#10**;
- c) **LSA#42.3**, or  
**L#15**, or  
**AT00370, AT00405, AT00461, AT00600, AT00601, AT00682, AT00720 and AT00810**, or  
**KH00370, KH00405, KH00461, KH00600, KH00601, KH00682, KH00720 and KH00810**;



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- d) **LSA#43.2**, or  
**L#20**, or  
**AT00531, AT00532, AT00533, AT00580, AT00690, AT00830 and AT00971**, or  
**KH00531, KH00532, KH00533, KH00580, KH00690, KH00830 and KH00971**;
  - e) **LSA#44.2**, or  
**L#30**, or  
**AT00900, AT01130, AT01131, AT01370 and AT01600**, or  
**KH00900, KH01130, KH01131, KH01370 and KH01600**;
  - f) **LSA#44.3**, or  
**L#31**, or  
**AT00750, AT00751, AT00910, AT00911, AT01050, AT01190 and AT01340**, or  
**KH00750, KH00751, KH00910, KH00911, KH01050, KH01190, KH01340, KH01341, KH01680 and KH01681**;
  - g) **LSA#46.2**, or  
**L#50**, or  
**AT01132, AT01310, AT01512, AT01800 and AT02260**, or  
**KH01132, KH01310, KH01512, KH01800 and KH02260**;
  - h) **LSA#46.3**, or  
**L#51**, or  
**AT01100, AT01200, AT01420, AT01421, AT01640, AT01641; AT02100 and AT02101**, or  
**KH01100, KH01200, KH01420, KH01421, KH01640, KH01641; KH02100 and KH02101**;
  - i) **LSA#47.2**, or  
**L#61**, or  
**AT01630, AT01741, AT02070, AT02450, AT02610 and AT02880**, or  
**KH01630, KH01741, KH02070, KH02450, KH02610 and KH02880**;
  - j) **LSA#47.3**, or  
**L#62**, or  
**KH01984, KH02090, KH02310, KH02480, KH02750 and KH02920**;
  - k) **LSA#49.1**, or  
**L#70**, or  
**AT02400, AT02640, AT03000, AT03001, AT03002, AT03300, AT03602, AT03603 and AT03600**, or  
**KH02400, KH02640, KH03000, KH03001, KH03002, KH03300, KH03602, KH03603 and KH03600**;
  - l) **LSA#49.1L11**, or  
**L#71**, or  
**AT03601**, or  
**KH03601**;



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- m) **LSA#49.3**, or  
**L#72**, or  
**AT02401, AT02850, AT03003, AT03390 and AT03542**, or  
**KH02401, KH02850, KH03003, KH03390 and KH03542**;
- n) **LSA#50.2**, or  
**L#82**, or  
**AT02971, AT03541, AT03890, AT04450, AT05090**, or  
**KH02971, KH03541, KH03890, KH04450, KH05090**, or  
**MG-L50M6, MG-L50M68, MG-L50L7, MG-L50L78, MG-L50L8, MG-L50L88, MG-L50V1, MG-L50V18**;
- o) **LSA#51.2**, or  
**LSA#52.2**, or  
**L#9x**;
- p) **14xx**;
- q) **16xx**.

Notes:

1. “#” indicates a missing optional letter:
2. Letter “H” or “R”: the related machines are out of the scope of this certificate (totally enclosed machines: 49.1 model only).
3. Letter B after LL: the related machines are supplied incomplete regarding protection of terminals and shall be considered as components of a complete generating set as per 5.1.3 of C22.2 No. 100-14 & UL1004-1 and 1004-4.
4. The machines type designation beginning by “L” represents the “Series 1000”. They are a subcategory of “Series LSA” and have the same design and construction with some specific couplings, dimensions and excitation systems.
5. The machines type designation beginning by L with extension C are dedicated to CATERPILLAR.
6. The machines type designation beginning by 14 are dedicated to CATERPILLAR.
7. The machines type designation beginning by AT was dedicated to SDMO/KHOLER.
8. The machines type designation beginning by KH are dedicated to KHOLER.
9. The machines type designation beginning by MG-L are dedicated to MHI.

**APPLICABLE REQUIREMENTS**

CSA C22.2 No. 100-14 (R2019) (incl. Upd. No. 1, April 2017) - Motors and Generators  
UL 1004-1, 2<sup>nd</sup> Ed. (Sept. 19, 2012; incl. rev. through Nov. 5, 2020) - Rotating Electrical Machines –  
General Requirements  
UL 1004-4, 3<sup>rd</sup> Ed. (July 2, 2018; incl. rev. through July 27, 2023) - Electric Generators



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**MARKINGS**

See Descriptive Report for required markings

Notes:

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Products certified under Class(es) C421101 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

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Project	Date	Description
80089425	2024-05-17	Update of report 1019302 for addition of alternators type LSA#47.3 and AVR D550 and alternate components.
80007398	2019-08-05	Update of report 1019302 for addition of alternate models under Series LSA 44.3.
70112102	2017-03-24	Update of report 1019302 for addition of alternator types LSA#46.3 and LSA#49.3, alternate components and alternate designations “KH” and “MG-L”.
2770534	2014-11-20	Addition of AT alternate designation to LSA alternators covered in the report and specification of AREP designated excitation (already accepted) instead of compound excitation in the product description. To the requirements of CSA C22.2 No. 100-14.
2695044	2014-02-14	Addition of Alternators, Type LSA 44.3 or L#31. To the req. of Stds. CSA C22.2 No. 100-04, UL1004-1, 2nd Ed. and UL 1004-4, 2nd Ed.
2448869	2012-06-21	Addition of alternators, types LSA#42.3 or L#15, LSA#51.2 or LSA#52.2 or L#9x and 16xx and delisting of alternators, types: LSA#37, LSA#41.1, LSA#41.2, LSA#42.1, AA# or LSA#44.1, AA# or LSA#46.1 and AA# or LSA#47.1 or L#60.
2285518	2010-04-23	Addition of alternator type LSA 40/L#11 and increase of power for type LSA 49.1 (from 874 kW to 1000 kW continuous).
1934823	2007-10-25	Addition of alternators type LSA 50.2 and 1400.
1880999	2007-06-07	Addition of alternate components in report 1019302.
1520837	2004-03-23	Alternate construction LSA 49.1 and LSA 44.2, new model LSA 47.2.