



Certificate of Compliance

Certificate: 1504724 (LR 113199)

Master Contract: 162938

Project: 1504724

Date Issued: 2004/06/17


Issued to: Siemens Building Technologies

Production GmbH
Werk Rastatt
Berliner Ring 23
Rastatt, 76437
Germany
Attention: Ms. Ingrid Blank

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Joseph Kwong, P. Eng.

Authorized by:  Akbar Lalani, Product Group Manager

PRODUCTS

- CLASS 2642 81 - FUEL BURNING EQUIPMENT(OIL)-Oil Burners, Electrical - Equipment for Accessories-Certified to U.S. Standards
- CLASS 2632 81 - FUEL BURNING EQUIPMENT(GAS)-Gas Burners, Electrical - Equipment for Accessories-Certified to U.S. Standards
- CLASS 2642 01 - FUEL BURNING EQUIPMENT (OIL) - Oil Burners, Electrical Equipment for - Accessories
- CLASS 2632 01 - FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories

LMV52 Burner Controls for use in oil- or gas-fired furnaces, consisting of the following components:

- Basic Unit, model LMV52.x xxx 1 xx; rated 120V, 50/60 Hz, 30W (in standby mode without transformer and without external loads) or 6.3A maximum (with external transformer and external loads); where the x in the

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



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model designation may be any alpha-numeric to represent additional manufacturer related versions, with no influence to the electrical safety;

- Infrared Flame Detectors, model QRI, rated 14V DC, 0.5W maximum (continuous duty); or model QRB, rated 10V DC, 1 mW maximum (intermittent duty). May be provided with additional suffix of any alpha-numeric to represent additional manufacturer related versions, with no influence to the electrical safety.

- Actuators, stepper motor type, model SQM45, rated 2 x 12V AC, 15 VA maximum, powered via bus cable, 3 Nm nominal torque maximum; model SQM48, 34 VA maximum; 20 Nm nominal torque maximum. May be provided with additional suffix of any alpha-numeric to represent additional manufacturer related versions, with no influence to the electrical safety.

- Display and Programming Unit, model AZL52... and AZL53..., rated 2 x 12V AC, powered via bus cable. May be provided with additional suffix of any alpha-numeric to represent additional manufacturer related versions, with no influence to the electrical safety.

- O2 Module, model PLL52, rated input 120 Vac, 50 Hz, 180VA maximum; output 120 Vac, 50 Hz, (sensor heating); separate power and communication signal connection to basic unit via bus cable.

- O2 Sensor, model QGO20xxxx1x, rated 120 Vac, 50 Hz, 150VA maximum.

Notes:

1. The basic unit and external transformer contain terminal blocks for field connections. They are intended to be installed inside an overall electrical and fire enclosure where the suitability of the combination of the final installation is to be determined.
2. An external component style, compound-filled transformer, with secondary outputs suitable for class 2 when used in combination with a specified type of fuse in series, is connected to the basic unit.
- 3 The basic unit, actuators and flame detectors are rated for ambient temperature range in operation from -20°C to 60°C.
4. The integral fuses of the basic unit and O2 Module do not provide branch circuit protection.
5. The suitability of the load control and the VSD (Variable Speed Drive) sensors are to be determined in the end use application.
6. Any ionization probe may also be used for continuous duty.
7. The features of the system are determined primarily by parameter settings rather than by the type of devices. The suitability of the parameter settings including timings and programming, in which the control is used for each final application, is to be determined. The LMV5... units and system components are not interchangeable between different types of plant without matching the parameter settings of the relevant plant.



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8. The LMV 52 burner control has been evaluated to meet with the applicable CSA and US requirements in compliance with UL 372 (and ANSI/UL 1998) and CAN/CSA E60730-1 to a safety level equivalent to that of a primary safety burner control with regard to failure mode effect analysis and Class C (UL1998 Class 2) software classification.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 199-M89 - Combustion Safety Controls and Solid-State Igniters for Gas and Oil Burning Equipment

CSA Std C22.2 No. 0.8-M1986 - Safety Functions Incorporating Electronic Technology

CAN/CSA E60730-1, and 60730-2-5, Annex H (Requirements for electronic controls)

UL Std No. 372 - Primary Safety Controls for Gas- and Oil-Fired Appliances

UL Std No. 1998 - Software in Programmable Components



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

Project	Date	Description
1504724	2004/06/17	Original Certification