CSA INTERNATIONAL

Certificate of Compliance

Certificate: 2317543 **Master Contract:** 162938

Project: 2524027 **Date Issued:** May 9, 2012

Issued to: **Siemens AG**

Berliner Ring 23
Rastatt, 76437
Germany
Attention: Mr. Hermann Hasselbach

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.

C US

Joseph Kwong

Issued by: Joseph Kwong, P. Eng.

PRODUCTS

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

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

CLASS 2632 01 - FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories

CLASS 2642 01 - FUEL BURNING EQUIPMENT (OIL) - Oil Burners, Electrical Equipment for - Accessories

Microcontroller-based burner control, Model LME7x and LME8x, rated input 120V, 50/60 Hz, for the control and supervision of forced draft burners of medium to high capacity and for use with either gas or oil fuels on intermittent applications.

Notes:

1. The burner control system is intended to be installed inside an overall electrical enclosure where the suitability of the combination is to be considered in the end application.

2 These controls are rated for ambient temperature range in operation from -40ºC to +60ºC.

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3. These burner controls are designed to function as a control unit for intermittent operation and are to be forced to reset within 24 hours.

4. These controls are intended for use with QRA (ultraviolet), QRB (photo-resistor), QRC (ultraviolet) and ionization probe combustion detectors. The suitability of the combination control and combustion detector shall be determined on the end-use equipment by firing tests on the end use equipment.

5. The control unit is to be protected by an external fuse rated 6.3A maximum.

6. The control produces a PWM signal whose duty cycle determines the speed of the fan. The control requires feedback signals from the fan. A loss signal will result in a safety shutdown. The PWM control function shall not be considered the same as running overload or locked rotor protection for the motor and the suitability of the PWM control shall be determined in the end use application.

7. The air pressure load produced by the fan pneumatically controls the position of the fuel actuator through a pneumatic valve in the end use application.

8. The AZL display module is Class 1, non-isolated extra-low voltage device. The suitability of the wiring connection means shall be determined in the end use application and in accordance to the local electrical safety code having jurisdictions.

9. 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 LME7x and LME8x with associated PME programme modules and system components are not interchangeable between different types of plants without matching the parameter settings of the relevant plant.

10. The LME7x and LME8x burner controls have 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
UL Std No. 372 (5th Ed)	-	Primary Safety Controls for Gas- and Oil-Fired Appliances
UL Std No. 1998 (2nd Ed)	-	Software in Programmable Components

Technical Information Letter (T.I.L.) No. H-18A Covering Interim Certification Requirements for Burner Controls Incorporating Programmable Logic