

# Certificate of Compliance

**Certificate:** 1033830

**Master Contract:** 201992

**Project:** 2021403

**Date Issued:** April 29, 2008

**Issued to:** Donati Sollevamenti S.r.l.  
Via Roma, 55  
21020 Daverio (VA)  
Italy  
Attention: Mr. Dario Marchetto

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



**Issued by:** N. J. Bos

**Authorized by:** M.H.J. Hoendervangers

A handwritten signature in blue ink, appearing to read 'M.H.J. Hoendervangers'.

## PRODUCTS

CLASS 9041 01 – CRANES AND HOISTS

CLASS 9041 81 – CRANES AND HOISTS – Certified to U.S. Standards

Chain hoists, floor controlled by pendant control switches, 600 V or less, 3-ph, 60 Hz, types DMK1 : 152C, 152D, 162L, 142D, 152L, 154C, 132D, 142L, 122D, 134C, 112D ; types DMK2 : 242C, 242D, 242F, 232D, 232F, 242L, 232C, 222C, 222D, 222F, 232L, 212F, 222L, 234C, 234D, 224C, 224D, 234L, 224L, 214C, 214D ; types DMK3 : 342C, 342D, 342F, 332D, 332F, 342L, 332C, 322C, 322D, 322F, 332L, 312F, 322L, 334C, 334D, 324C, 324D, 334L, 324L, 314C, 314D ; types DMK4 : 442C, 442D, 442F, 432D, 432F, 442L, 432C, 422C, 422D, 422F, 432L, 412F, 422L, 434C, 434D, 424C, 424D, 434L, 424L, 414C, 414D, duty cycle FEM 2m, max 4400 lbs (2000 kg), hoist motor 2,6 hp max; trolleys types SM2, SM3, SM4, CM3, CM4, EM3, EM4 ; travel motor 0,4 hp max., duty cycle in FEM class.

Rope hoists, floor controlled by pendant control switches, 600 V or less, 3 ph, 60 Hz, duty cycle in FEM class, types DRH1 max load 4000 kg (8800 lbs) up to 4 falls, hoist motor 4.9 hp; DRH2 max load 6300 kg (13860 lbs) up to 4 falls, hoist motor 8.2 hp; DRH3 max load 12500 kg (27500 lbs) up to 4 falls, hoist motor 16.3 hp; DRH4, max load 40000 kg (88000 lbs) up to 8 falls, hoist motor 26.1 hp, trolleys types DST1/N, DST2/N, DST3/N, DST4/N, DST1/R, DST2/R, DST3/R, DST4/R, DST1/S, DST2/S, DST3/S, DST1/O, DST2/O, DST3/O, DRT1, DRT2, DRT3, DRT4, travel motor 1.5 hp max, duty cycle in FEM class.

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.

Notes:

1. Type designations may be followed by numbers and/or characters indicating construction details.
2. The hoist and travel motors are provided with an inherent protective device (responsive to motor temperatures only) to be connected in auxiliary circuits (manual reset application) but not as substitute for overload protection as required by CE Code, Part I.
3. Interconnection cables between hoist control box and travel, or creeping hoist motor, are not included in the certification.
4. With this examination the US deviations are complied with.
5. Duty cycles in FEM class are stated for each chain hoist type in Tables 1 and 2, and for each rope hoist and trolley in Tables 3, 4, and 5.
6. Motor starting and nominal currents for the chain hoists are given in Tables 6 and 7, and for the trolleys in Tables 8 and 9. For the rope hoists with trolleys Tables 10 and 11 are applicable.
7. Hoists with more than one electrified motion have a main contactor in the power supply line.

**APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-M91 (R2006) - General Requirements - Canadian Electrical Code Part II  
CSA C22.2 No.14-05 - Industrial Control Equipment for Use in Ordinary (Non-Hazardous) Locations  
CSA C22.2 No. 33 M1984 (R2004) - Construction and Test of Electric Cranes and Hoists  
CSA C22.2 No 100-04 - Motors and Generators  
CSA C22.2 No 77-95 (R2004) - Motors with inherent overheating protection  
UL Std. 1004 (June 1994) - Electric Motors  
UL Std. 73 (December 2004) - Motor Operated appliances  
UL Std. 508 (January 1999) - Industrial Control Equipment

**MARKINGS**

Submitters name or file number, type designation, electrical ratings in volts, hertz, hp per motor, load capacity in kg or alt. In lbs or tons, duty cycle according to FEM, date code, optionally speed in m or feet per min and CSA Monogram are shown on a metal plate secured by screws or rivets, or alternatively on CSA Certified and/or UL Recognized for Canada and US adhesive labels additionally covered by transparent polypropylene film. The hoist and travel motors are provided with a metal nameplate secured by screws or rivets, or alternatively CSA Certified and/or UL Recognized for Canada and US adhesive labels additionally covered by transparent polypropylene film, showing submitters name, type designation, electrical ratings in volts, hertz, amperes, horsepower, TEFC, number of phases, insulation class, max. ambient temperature.



## *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**

| <b>Project</b> | <b>Date</b>    | <b>Description</b>   |
|----------------|----------------|--|
| 1033830        | June 13, 2000  | Original Certification   |
| 2021403        | April 29, 2008 | Update of report 1033830 to include alternate thermal protector, control transformers, limit switches, including testing on polymeric control boxes (CSA C22.2 No. 33 M1984 (R2004) / UL Std. 73 9 <sup>th</sup> Ed.). |