



Certificate of Compliance

Certificate: 1462608 (LR 79567-2)

Master Contract: 178618

Project: 1864327

Date Issued: 2006/12/20

Issued to: Indelac Controls, Inc.
6810 Power Line Dr
Florence, KY 41042
USA
Attention: Larry Robinson

The products listed below are eligible to bear the CSA Mark shown



Issued by: Kurt McClain

Authorized by: Peter Schimmoeller, Manager
of Certification Services

PRODUCTS

CLASS 3228 01 - VALVES - For Hazardous Locations

Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G;

Electrical valve actuators, Series "S", 200 or 300 in-lb torque, 115V ac, 1A, 60Hz, duty cycle 25 percent or 12V dc, 2.5A, continuous. Enclosure Type 4, Class B insulation. Auxiliary switches (optional) rated 15A, 1/2 hp 250V ac.

Notes:

1. Alphanumeric Suffixes, B, C, O, R, U, X, F, P, P1, 1, 2, 4 or 5 denotes electrical and mechanical variations.
2. Options include motor brake and auxiliary switches.



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Model Code Designation

- | 1. "S" Series | Torque in-lbs | Direction |
|---------------|---------------|--------------|
| SDX | 300 | Reversing |
| SR | 200 | Reversing |
| SU | 200 | Unidirection |
| SX | 300 | Reversing |
2. 4 = Enclosure Type 4
3. B = 115V ac
D = 12V dc.
4. 5 = 5 secs cycle time.
5. 1 = One auxiliary switch
2 = Two auxiliary switches
6. F = Friction Brake
P = Power On
P1 = Power Off

Class I, Division 1 & Division 2, Groups C & D; Class II, Division 1 & Division 2, Groups E, F & G;

Electrical valve actuators, Series **MR**, **MS**, **ML** and **MH**:

"**MR7aF07-b-cdefg**", 675 in-lb torque, Reversing, Class B insulation.

"**MS7aF07-b-cdefg**", 400 in-lb torque, Reversing, Class B insulation.

"**ML7aF07-b-cdefg**", 1000 in-lb torque, Reversing, Class B insulation.

"**MH7aF07-b-cdefg**", 1500 in-lb torque, Reversing, Class B insulation.

Model Code Designations

MR7 = 675 in-lb;



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MS7 = 400 in-lb;

ML7 = 1000 in-lb;

MH7 = 1500 in-lb;

“7” = explosion proof enclosure

a = Voltage/Current:

B = 120 Vac, 1.1A duty cycle 25% or 0.75A duty cycle 75%

D = 12 Vdc, 2.5A continuous;

E = 24 Vdc, 0.5A continuous;

F07 = ISO 5211 F07 Mounting (Std. Mounting for Configuration for M series);

b = Cycle Time:

MS:

10 = 12 Vdc, 2.5 A Continuous or 120 Vac, 1.1A Normal duty Cycle 25%

20 = 120 Vac, 0.75A Extended duty Cycle 75%

18 = 24 Vdc, 0.5A continuous

MR & ML:

15 = 12 Vdc, 2.5 A Continuous or 120 Vac, 1.1A Normal duty Cycle 25%

30 = 120 Vac, 0.75A Extended duty Cycle 75%

30 = 24 Vdc, 0.5A continuous

MH:

30 = 12 Vdc, 2.5 A Continuous or 120 Vac, 1.1A Normal duty Cycle 25%

60 = 120 Vac, 0.75A Extended duty Cycle 75%

60 = 24 Vdc, 0.5A continuous

c = Auxiliary Switch: **S** = 1 Aux. Switch or **2S** = 2 Aux. Switches, 15A, 1/2 hp 250 Vac. or “Blank” = No Switch;

d = Manual Over Ride: **M** = Manual Over Ride or “Blank” = No Manual Over Ride;



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e = Brake: **P1** = Power Brake Off;

f = Visual Position Indicator: **D** = Pointer or "Blank" = No Pointer;

g = Conduit Entry: **AC** = Two conduit entries or "Blank" = One conduit entry;

Conditions of Use:

1. For Division 2 applications: the requirement for a Division 1 Conduit Seal within 18" of the Valve Actuator Enclosures must be maintained.

APPLICABLE REQUIREMENTS

- CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
- CSA Std C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations
- CSA Std C22.2 No. 139-1982 - Electrically Operated Valves

MARKINGS

- CSA Monogram with adjacent C/US indicator;
- Submitter's name and/or Master Contract Number 201092;
- Specific catalogue or model designation;
- Serial Number, Date code or equivalent;
- Electrical rating, rated voltage and input in amperes or volt-amperes;
- Time rating if not continuous, expressed in terms of the maximum ON period and the minimum OFF period;
- The designation of wiring terminals or a wiring diagram to indicate the connections;
- Ratings of contacts provided for the control of external loads;
- Hazardous Location designation; CLASS I GROUPS C & D; CLASS II GROUPS E, F, & G; CLASS III
- Max ambient;
- Temperature Code Rating;
- Caution; CAUTION

TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, DISCONNECT THE EQUIPMENT FROM THE SUPPLY CIRCUIT BEFORE OPENING. KEEP ASSEMBLY TIGHTLY CLOSED WHEN IN OPERATION.

POUR RÉDUIRE LE RISQUE D'ALLUMAGE DES ATMOSPHÈRES DANGEREUSES, DÉMONTÉZ L'ÉQUIPEMENT DU CIRCUIT D'APPROVISIONNEMENT AVANT DE S'OUVRIR. MAINTENEZ L'ASSEMBLÉE ÉTROITEMENT FERMÉE SI EN FONCTION.

or

OPEN CIRCUIT BEFORE REMOVING COVER

OUVRIRE LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE



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or

KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE

GARDER LE COUVERCLE BIEN FERMÉ TANT QUE LES CIRCUITS SONT SOUS TENSION

or equivalent description

- Statement; A SEAL SHALL BE INSTALLED WITHIN 18 INCHES OF ENCLOSURE

UN SCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 18 POUCES DE BOÎTIER

or equivalent description

such as:

WARNING! TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERS FOR DIVISION 1 & 2 LOCATIONS,
CONDUIT RUNS MUST HAVE A SEALING FITTING WITHIN 18" OF THIS ENCLOSURE

All units are provided with an Instructions Manual



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
1864327	2006/12/20	Update to include the Div 2 information, which should have been included in the 1794251 project
1794251	2006/12/08	Update to include the Haz Loc versions of the Valve actuators called out under 178618-1694325
1518049	2004/03/26	Addition of a alternate construction for the MR7 Enclosure for Hazardous Locations
History		
1462608	2003/11/12	Supersedes LR79567-2, added MR7B for Hazardous Locations.
79567-2	1993/10/19	Electrical Valve Actuators "S" Series for Hazardous Locations.