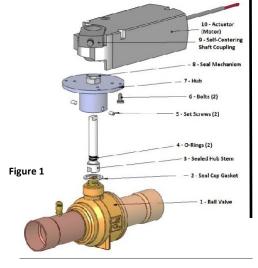


# **CYCLEMASTER® BALL VALVES** SERIES II & III ACTUATOR AND WEATHERPROOF ENCLOSURE INSTALLATION INSTRUCTIONS

#### ACTUATOR/HUB REMOVAL

- 1. Disconnect Actuator (10) from all electrical sources.
- 2. Remove Actuator from Sealed Hub Stem (3) by:
  - a) Loosening the screw on the Shaft Coupling (9)
  - b) Slide the Actuator off the Sealed Hub Stem.
- 3. Remove Hub Assembly (2-8) from Ball Valve (1) by
- a) Loosening the Set-Screws (5) on Hub (7)
- b) Remove Hub by placing wrench on flats of the Sealing Mechanism (8) and turn counter-clockwise.
- c) Unscrew Hub Assembly from valve
- d) Confirm that the Seal Cap Gasket (2) remains with the Hub Assembly.



#### HUB INSTALLATION

- Remove Seal Mechanism (8) from Hub Assembly (2 -8). Sealed Hub Stem (3) should remain partially installed in the Seal Mechanism. Ensure Stem and O-Ring Seals are well lubricated.
- Reinstall the Seal Mechanism into the Hub (7), handtight. Apply a small amount of lubricant to the threads if necessary.
- Assemble the hex-head Bolts (6) onto the Hub to go into actuator. Align Bolts with holes on underside of Actuator (10).
- 4. Partially install the Set-Screws (5) into the Hub.
- 5. Make sure the brass sealing surface on top of the Ball Valve (1)is clean and free of debris.
- 6. Confirm that the PTFE Seal (2) is in place, then install the entire Hub Assembly (2-7) onto the valve neck, taking care that the slot in the Stem (3) aligns properly with the valve stem and the Seal is in place between the Seal Mechanism (8) and the top of the valve neck.
- Thread the Hub over the Seal Mechanism (8) and onto the valve as far as possible, stopping just short of bottoming out.
- Align the Hub so that the Actuator orientation will be as desired. With an Allen wrench, tighten the Set Screws (5) (Torque: 60-65 lb. –in.) on either side of the Hub so that Set Screws secure the Hub against the ball valve body.
- While holding the larger diameter, tighten the Seal Mechanism portion with a wrench approximately 1/4 to 1/2 turn until secure.
- 10. Pull Stem upward away from Ball Valve to remove slack,



- Get the Actuator (10), Self-Centering Shaft Coupling (9) and Locking Clip required for installation.
- 2. Assemble the Shaft Coupling (9) onto the Actuator as shown in Figures 1 & 2. Depress the manual override button on top of the Actuator and manually cycle the Shaft Coupling back-and-forth through the full 90° cycle to confirm that each actuator operates within the full range between the left and right raised stops. Reposition if necessary
- Attach Locking Clip to the underside of the Shaft Coupling to secure it in the Actuator as shown in Figure 3.
- Depress the manual override button on top of the Actuator and match the full counter-clockwise position of the Shaft Coupling to the full counterclockwise rotation of the Ball Valve (1).
- Pull Stem (3) upward, away from Ball Valve until no additional space is between the Hub Assembly's Stem and Seal Mechanism (8).

 $\bigcirc$ 

- Place Actuator against the Hub (7), over the Stem taking care that the flange Bolts (6) align with the holes on the underside of the Actuator housing. Bottom of Actuator should be flush against the top of the Hub.
- While holding manual override switch the motor, align the Shaft Coupling and tighten against Stem. Series II – Torque ≈ 90-108 lb.- in. (10-12 N -m), Series III – Torque ≈ 100-130 lb. –in. (12-15 N-m).



**Figure 2 Shaft Coupling** 



Figure 3 Shaft Coupling





#### **ACTUATOR INSTALLATION (with Enclosure)**

#### Warning: Enclosures will not provide protection if water can intrude due to incorrect mounting.

- 1. Take the Enclosure and accessories out of the kit (In case of Act.- BV-Hub-Encl. kit, the kit includes the Ball Valve and the Actuator as well).
- 2. Disassemble cover by loosening plastic screws on enclosure.
- 3. Follow steps 4 through 10 of "HUB INSTALLATION". DO NOT REMOVE SEAL MECHANISM (already installed) or thread sealant between Hub and Seal Mechanism will be damaged.
- 4. Install O-Ring into Hub Groove. (Figure 6) If Hub does not have groove, use Hub from the new Enclosure Kit. Apply small amount of lubricant to O-Ring, if necessary.
- 5. Assemble two of the hex-head bolts onto the Hub (Figure 7). Align Bolts with holes on underside of Enclosure and Actuator.





Figure 6

Figure 7



Figure 8\*

Step 2 - Figure 3).

see Figure 5)



6. Place enclosure over Stem and on Hub. Align flange

flush against top of Hub.

bolts withholes on the underside of Enclosure. Tighten

two thin hex nuts and two plastic washers (Assembly Torque ≈ 70 lb. -in). Bottom of Enclosure should be

7. From top of Enclosure, assemble the other two bolts (in case of series III, use the two cap screws), using the

plastic washer, in the remaining 2 holes and tighten

down the Enclosure onto the hub. (The heads of the

of the bolt protruding out of the underside of the hub -

8. Before installing the actuator into the enclosure, follow steps 1-5 of the "Actuator (Motor) Installation" stated

above. NOTE: When installed in a Weatherproof

bolts should be on the topside and the shaft of the body

Enclosure, the Shaft Coupling of the Actuator needs

to be installed on the bottom side of the Actuator

(Figure 10) instead of the top side (as mentioned in

Enclosure onto the flange bolts (onto the Hub) using the

Figure 9 (Thin Hex Nuts)

Service Warnings/Cautio



\* Illustrations using a Series III Enclosure



Series II

Groove

# **Actuator Features:**

- Synchronous motor technology with stall protection
- Unique self-centering Shaft Coupling
- Manual override
- cUL and UL Listed, CE Certified
- Independently adjustable dual auxiliary switches available

Jerv	Service Warnings/Cautions				
Â	DO NOT OPEN THE ACTUATOR. IF THE ACTUATOR IS INOPERATIVE, REPLACE THE UNIT.				
Â	Do not wire different types of actuators in parallel with these models.				
A	All six outputs of the dual auxiliary switch (A and B) must only be connected to: Class 2 voltage (UL/CSA), Separated Extra-Low Voltage (SELV) or Protective Extra Low Voltage (PELV) (according to HD384-4-41) for installations requiring CC conformance. You must use a				
A	Installations requiring Conformance: All wiring for CE certified actuators must only be separated extra low voltage (SELV) or protective extra low voltage (PELV) per HD384-4-1. Use safety isolating transformers (Class III transformer) per EN61558. They must be rated for 100% duty cycle. Overcurrent protection for supply lines is maximum 10A.				
	Mixed Switching operation is not permitted to the switching outputs of both auxiliary switches (A and B)				
	Personal injury/loss of life may occur if a procedure is not performed as specified.				
Â	Not for use in condensing or wet applications.				
Â	Equipment damage or loss of data may occur if the user does not follow a procedure as specified.				
Â	To avoid injury or loss of life, pay attention to any hazardous voltage when performing checks.				

## Manual Override

To move the valve and lock the position with no power present:

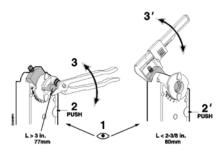
1. Hold down the PUSH button.

2. Make adjustments to the valve position.

3. Release the PUSH button.

NOTE: If there is no load, the actuator will hold the new position. If load conditions exist, the actuator might not be able to hold.

Once power is restored, the actuator returns to the automatic control.



- 9. Place Actuator against Enclosure, over the Stem, Align Flange Bolts with the holes on the underside of the Actuator housing. Bottom of Actuator should be flush against top of Enclosure.
- 10. While holding manual override switch on Actuator, align Shaft Coupling and tighten against the Stem. Series II, Torque ≈ 90-108 lb.
- -in (10-12 N-m), Series III, Torque ≈ 100-130 lb. in (12-15 N-m) – see standard Commissioning Instructions.
- 11 Install Enclosure using cover screws. (Torque ≈ 10 lb.in/1.2 N-m)

#### Notes:

1. Do not over-tighten the motor clamp.

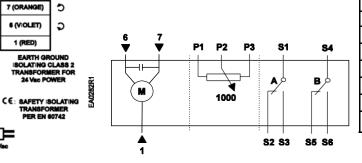
2. Hub is tightened to Seal Mechanism, not to bottom of the valve neck. Seal Cap Gasket should be tight enough to seal valve surface.

#### Wiring

All wiring must conform to NEC and local codes and regulations

Use earth ground isolating step-down Class 2 transformers. Do not use auto transformers.

The sum of the VA ratings of all actuators and all other components powered by one transformer must not exceed the rating of the transformer. It is recommended that one transformer power no more than 10 actuators.



Standard Symbol	Eurotion		Series I & III Color		
1	Supply (SP)	G	Red		
6	Control signal clockwise	Y1	Violet		
7	Control signal counterclockwise	Y2	Orange		
FACTORY INSTALLED OPTIONS					
S1	Switch A Common	Q11	Gray/Red		
S2	Switch A N.C.	Q12	Gray/Blue		
S3	S3 Switch A N.O.		Gray/Pink		
S4 Switch B Common		Q21	Black/Red		
S5	S5 Switch B N.C. Q22		Black/Blue		
S6 Switch B N.O.		Q24	Black/Pink		

Figure 1. Standard Models

## Figure 2. Auxiliary Switch Models

#### START UP/COMMISSIONING

- Check that the wires are connected correctly.
- 2. Connect wires 1 (red) and 6 (violet) to a Digital Multimeter (DMM) with the dial set at Vac. Apply a control signal (24 Vac) to wires 1 and 6 to verify that the operating voltage is within range.
- Check that the direction of the rotation switch matches the rotation of the valve ball.

7 (ORANGE)

6 (VIOLET)

1 (RED)

Check the operation Δ

6

- a) Connect wire 1 (red) to the actuator.
- b) Apply a control signal (24 Vac) to wires 1 (red) and 6 (violet).

120 Var

- c) Allow the actuator shaft coupling to rotate from 0 to 90°
- d) Stop applying a control signal to wires 1 (red) and 6 (violet).
- Check the Auxiliary Switch 5.
  - a).Set the DMM dial to Ohms (resistance) or continuity check.
  - b) Connect wires S1 and S3 to the DMM. The DMM should indicate an open circuit or no resistance.
  - c) Apply a control signal (24 Vac) to wires 1 (red) and 6 (violet). The DMM should indicate contact closure as the actuator shaft coupling reaches the setting of switch A.
  - d) Stop applying a control signal to wires 1 (red) and 6 (violet).
  - e) Connect wires S1 and S2 to the DMM. The DMM should indicate an open circuit or no resistance.
  - f) Apply a control signal (24 Vac) to wires 1 (red) and 7 (orange). The DMM should indicate contact closure as the actuator shaft coupling reaches the setting of switch A. Check the Auxiliary Switch B.

  - a) Set the DMM dial to Ohms (resistance) or continuity check.
    b) Connect wires S4 and S6 to the DMM. The DMM should indicate an open circuit or no resistance.
  - c) Apply a control signal (24 Vac) to wires 1 (red) and 6 (violet). The DMM should indicate contact closure as the actuator shaft coupling reaches the setting of switch B. d) Stop applying a control signal to wires 1 (red) and 6 (violet). e) Connect wires S4 and S5 to the DMM. The DMM should indicate an open circuit or no resistance.

  - f) Apply a control signal (24 Vac) to wires 1 (red) and 7 (orange). The DMM should indicate contact closure as the actuator shaft coupling reaches the setting of switch B.

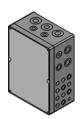
## Weatherproof Enclosure Kits - Series II

Includes Enclosure, Hub Kit and accessories; O-Ring (1), Bolts (4), Hex Nuts (2), Gaskets (4)



# Weatherproof Enclosure Kits - Series III

Includes Enclosure, Hub Kit and accessories; O-Ring(1), Bolts(2), Cap Screws(2), Hex Nuts(2), Gaskets(4)



# PRODUCT HAS BEEN MANUFACTURED TO BE CONSISTENT WITH NEMA3R SPECIFICIATIONS.

Assemble the kit in compliance with the Installation instructions provided, in order for the enclosure to perform its function.

#### Notes

The conduit hubs are to be connected to the conduit before being connected to the enclosure. Selected location must provide adequate wire bending space.

#### Weatherproof Enclosure Features:

All the Enclosures have drilled holes to accommodate the Heater kit except the Series I Enclosure.

Enclosure has Metric Knockouts for easy wiring.

Encl. Material: Polycarbonate (PC); Screw Cover; Opaque



NON-METALLIC ENCLOSURE DOES NOT PROVIDE GROUNDING BETWEEN CONDUIT CONNECTIONS. USE GROUNDING BUSHINGS AND JUMPING WIRES

AMBIENT TEMPERATURE: -25°F to 125°F (-40°F TO 125°F, IF USED WITH A HEATER KIT)



Enclosures will not provide protection if water can intrude due to incorrect mounting.

Actuator Housing         Enclosure         INEMA Type 1         right of vertical           Material         IP54 according to EN60529           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Operation           Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity         95% rh           (non-condensing)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           Cefficition         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           Conformity         Lectromagnetic Compatibility         2004/108/EC           Conformity         Electromagnetic Compatibility         2004/108/EC           Cable Length         3feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           (floating control)         R3/W x 80 D)         (300 x 100 x 68)           Operation         right of vertical         cortrol signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 vac control signal	Operating Voltage         24 Vac ±30%           Prover Supply         Frequency         374 / 3W         7 Va / 7W           Power Consumption         Modulating         3 Va / 3W         7 Va / 7W           Power Consumption         Modulating         5 Va / 4W         0 to 10 Vdc           Control Signal         Voltage Unput         0 to 10 Vdc         0 to 10 Vdc           Control Signal         Voltage Output         0 to 10 Vdc         0 to 10 Vdc           Control Signal         Voltage Output         0 to 10 Vdc         0 to 10 Vdc           Calso Signal         Voltage Output         0 to 10 Vdc         0 to 10 Vdc           Calso Signal         Voltage Output         0 to 30 vdc         24 vac ±30%           Voltage Output         Class III per FN00730         6 Ar resistive, 2A general purpose           Auxillary         Switch A         0 to 90 vith 5" intervals           Factory Setting         0 to 90 vith 5" intervals         24 vac ±30 Vdc           Factory Setting         0 to 90 vith 5" intervals         24 vac ±30 Vdc           Factory Setting         35 S         35 S         35 S           Switch B         0 to 90 vith 5" intervals         35 S           Factory Setting         127 Ib in (20 Nm)         310 Ib in (35 Nm) </th <th>Specifications</th> <th></th> <th>Series II Actuator</th> <th>Series III Actuator</th>	Specifications		Series II Actuator	Series III Actuator			
Power Suppy Power Suppy Power Consumption         Frequency Modulating         SU/A / 3W         SU/A / 3W           Control Signal (only the Modulating         Voltage input         0 to 10 V/c 0 to 20 V/c DC 100 V/c         0 to 10 V/c DC 100 V/c           Feedback Signal (not be modulated)         Voltage input         0 to 20 V/c DC 100 V/c         0 to 20 V/c           Feedback Signal (not be modulated)         Walking work to other Rating         Class 2 according to UL CSA           Rating         Class 3 according to UL CSA           Rating         Class 2 according to UL CSA           Rating         Switch Nange           Switch Range         0 to 90° with 5° intervals           Recommended Range Usage         4 to 50°           Factory Setting         5'           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2'           Switch B         0 to 80° otheir intervals           Recommended Range Usage         100 Loni	Prover Suppy         Frequency         50/60 Hz           Prever Consumption - Floating Modulating         3 V A / 3W         7 V A / 7W           Stortol Signal Notate Input resistance         > 100 K homework         8 V A / 8W           Control Signal Notation Store Manuality         Voltage Pourption         0 to 10 V/ct           Call Store Manuality         Voltage Pourption         0 to 10 V/ct           Store Manuality         Voltage Pourption         0 to 10 V/ct           Rating         Class 2 according to UL, CSA           Rating         Class 2 according to UL, CSA           Built Audiary Switch Contact         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary         Switch Range         0 to 90' with 5' intervals           Switch Range         0 to 50' with 5' intervals           Switch B         0 to 90' with 5' intervals           Recommended Range Usage         45 to 90'           Factory Setting         5''           Switch B         0 to 90' with 5' intervals           Recommended Range Usage         177 Ib-in (20 Nm)           Factory Setting         17''           Switch B         0 to 90' with 5' intervals           Recommended Range Usage         10 Ib-in (30 Nm)           Wanthing Yor Opening or </td <td>Sizes</td> <td></td> <td></td> <td></td>	Sizes						
Power Supply         Power Consumption         Floating Modulating         3 VA / 3W         TVA / 7W           Control Signal Control Signal         Notage Input         0 to 10 Vdc         8 VA / 8W           Control Signal Control Signal         Notage Unput         0 to 10 Vdc         0 to 10 Vdc           Control Signal         Voltage Unput         0 to 10 Vdc         0 to 10 Vdc           Control Signal         Maximum output current         Class 2 according to UL, CSA           Rating         Switch Name           Auxiliary         Switch Name           Switch Range         0 to 90° with 5° Intervals           Features         Recommended Range Usage         0 to 90° with 5° Intervals           Features         Switch Range         3 10 Ib-in (35 Nm)           Function         107 Ib-in (20 Nm)         2°           Switch Range         177 Ib-in (20 Nm)         2°           Switch Range         95°         100 Ib-in (35 Nm)           Recommended Range Usage         177 Ib-in (20 Nm)         2°           Factory Setting         85°           Switch Range	Prover Supply Prover Consumption-Floring Modulating SVA / 3W Prover Consumption-Floring Modulating SVA / 4W SVA / 2W SVA		Operating Voltage	24	4 Vac ±20%			
Prover Customington- Publing     S VA / SW     S VA / SW     S VA / SW     Control Signal     Modularing     S VA / SW     O to 10 Vdc     So VA / SW     SVA / SW     SV	Power Consumption - Poloning St VA / SW 8 VA / W 8 VA / W Control Signal Voltage Input modulus - Modulating SV VA / AW 0 to 10 Vdc mode modules Input resistance 0 to 10 Vdc Maximum output current 0 to 10 Vdc Maximum output current 0 to 10 Vdc DC InnA Constant - Constant	Power Supply		50/60 Hz				
Control Signal         Voltage Input         0 to 10 Vdc           Input resistance         > 100K ohms           Reclack Signal         Voltage Output         0 to 10 Vdc           Idom't Maduated         Ot and         Det InA           Idom't Maduated         Maximum output current         Det InA           Idom't Maduated         Class III per EMG730         4A resistive, 2A general purpose           Qual Auxiliary Switch Contact         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Build Auxiliary Switch Contact         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Build Auxiliary Switch Noltage         24 to 20 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Rating         Switch A         0 to 90° with 5° intervals           Recommended Range Usage         0 to 45°         90° with 5° intervals           Recommended Range Usage         177 Ib-in (20 Nm)         310 Ib-in (35 Nm)           Runtime for 90° Opening or         125 sec. 60 thz         125 sec. 60 thz           Nominal Angle of Rotation         90°         90°           Maximum Angular Rotation         95°         124 Vac/ 12° to 130° to 10 90° to 10 eleft and right of vertical           Conditions         Consing         0.25° to 130° f (32° to 55° C)	Control Signal         Voltage Input         0 to 10 Vdc           Own Modulated         > 1000 chms         > 1000 chms           Own Modulated         Voltage Output         0 to 10 Vdc           Own Modulated         Maximum output Current         Class 2 according to UL CSA           Barling         Class 2 according to UL CSA           Dual Auxiliary Switch Contact         6 A resistive, 2A general purpose         4 A resistive, 2A general purpose           Rating         Switch Amage         0 to 90" with 5" intervals           Baccommended Range Usage         0 to 45"         6 to 90" with 5" intervals           Recommended Range Usage         0 to 45"         6 to 90" with 5" intervals           Recommended Range Usage         0 to 90" with 5" intervals         7           Factory Setting         5"         5"           Switch B         0 to 90" with 5" intervals         8"           Recommended Range Usage         45 to 90"         125 sec. (# 60 Hz           Clasing         310 Ib-in (35 Nm)         310 Ib-in (35 Nm)           Runtime for 90" Opening or         125 sec. (# 60 Hz         125 sec. (# 60 Hz           Closing         NEMA Type 1         NEMA Type 1         NEMA Type 1           Nationum Angular Rotation         95"         100 Lor32"Co 5C C)	Fower Supply	Power Consumption- Floating	3 VA / 3W	7 VA / 7W			
Conversion         Input resistance         > 100x ohms           Feedback Signal Konk re knobues         Voitage Outpit         0 to 10 Voic Class 2 according to UL CSA           Equipment Rating         Rating         Class 2 according to UL CSA           Rating         Class 2 according to UL CSA           Basing         Class 2 according to UL CSA           Basing         Class 11 per EN60730           Dual Auxiliary Switch Contact Rating         6A resistive, 2A general purpose           Switch Range         0 to 50° with 5° intervals           Switch Range         0 to 50° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         85°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         3101b-in (35 Nm)           Rutime for 90° Opening or Closing         177 lb-in (20 Nm)         3101b-in (35 Nm)           Rutime for 90° Opening or Closing         177 lb-in (20 Nm)         3101b-in (35 Nm)           Actuator         95°         Maximum Angular Rotation         95°           Maximum Angular Rotation         95°         Gear Uubrication         95°           Maximum Angular Rotation         95°         Gear Uubrication         1100° f (32° to 55°C)	Only or Modulation Feedback Signal Voints@ Output         > 100K ohms           Feedback Signal Keyment Rating         Noting@ Output Maximum output current         D to 1 40 kc Output D to 1 40 kc Class 2 according to UL, CSA           Rating         Class III per EN60730         A4 resistive, 2A general purpose Rating           Buil Auxillary Switch Voltage Rating         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch Range         0 to 90' with 5' intervals         Seconmended Range Usage         0 to 90' with 5' intervals           Recommended Range Usage         0 to 90' with 5' intervals         2'         Seconder Rating Usage         Seconder Rating Usage           Factory Setting Factory Setting         2'         Seconder Rating Usage         3 to 10 u/m (35 Nm)           Runtime for 90' Opening or Closing         177 lb-in (20 Nm)         3 to 10 u/m (35 Nm)           Rutine for 90' Opening or Closing         10 kc 40' to 1 30''         Sec. @ 60 Hz           Maximum Angular Rotation         90''         Sec. (Bo 10 u/m (35 Nm)           Rutine for 90' Opening or Closing         10 kc 40'' to 1 30'' f (32'' to 1 50'')         Sec. (Bo 10'')           Generation         90''         10 kc 40'' to 1 30'' f (32'' to 1 50'')           Material		Modulating	5 VA / 4W	8 VA / 8W			
Feedback Signal (only to Moduluting)         Voltage Output: Maximum output current         0 to 10 Vdc DC ImA           Reting Rating         Rating         Class III per EN0730         Class III per EN0730           Dual Auxiliary Switch Contact         6A resistive, 2A general purpose Rating         4A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary Switch Voltage         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Becommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         2°           Factory Setting         2°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         2°           Function         2°           Torque         177 lb-in (20 Nm)           Runtime for 90° Opening or 150 sec: @ 50 Hz           Normal Angle of Rotation         90°           Maximu Angular Rotation         90°           Material         Die Cast Aluminum Alloy           Gear Lubrication         25% to 130° F (32° C to 55° C)           Material         Die Cast Aluminum Alloy           Gear Lubrication         20007 F (32° C to 55° C)           Material         Die Cast Aluminum Alloy	Teachack Signal         Voltage Output         0 to 10 vdc           Dony for Modulating         Maximum output current         DC 1mA           Rating         Rating         Class 2 according to UL, CSA           Rating         Class 11 per ENG0730         6A resistive, 2A general purpose           Qual Auxillary Switch Contact         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Rating         Switch Ange         0 to 90° with 5° intervals           Switch Ange         0 to 90° with 5° intervals           Recommended Range Usage         0 to 40°           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         2°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         2°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         2°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         2°           Recommended Range Usage         2°           Recording to Notion (35 Nm)         100 be: n(35 Nm)           Matimum Angular Rotation         95°           Nominal Angle of Rotation         95°           Matrial         De cast Aluminum Alloy	Control Signal	Voltage Input		0 to 10 Vdc			
Convertices         Maximum output current         DE LmA           Equipment Rating         Rating         Class 2 according to UL, CSA           Rating         Class 111 per EN60730         4A resistive, 2A general purpose           Rating         Dual Auxiliary Switch Contact Rating         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary Switch Voltage Rating         Switch Ange         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch Range         Switch Ange         0 to 90° with 5° intervals         5           Recommended Range Usage         0 to 90° with 5° intervals         7           Recommended Range Usage         21 to 20 Vdc         22 to 20           Function         Recommended Range Usage         45 to 90°           Factory Setting         27         10 to 45°           Factory Setting         27         10 to 45°           Factory Setting         27         10 to 45°           Runtime for 90° Opening or Closing         125 sec. 60 to 12         10 to 45°           Maximum Angular Rotation         95°         10 to 45°         10 to 45°           Actuator         Stord Partical Auxinitum Aloy         10 to 14 to 13 to 10 to 10 to 16 to 14 to 10 to 12 to 10 to 10 to 16 to 14 to 10 to 12 to 10 to 10 to 16 to 14 to 10 to 10 to 10 to 10 to 10 to 10	Dark treadance         Maximum output current         DC LmA           Equipment Rating         Rating         Class 2 according to UL, CSA           Rating         Class 11 per EN60730         A resistive, 2A general purpose           Rating         Dual Auxiliary Switch Contact         6A resistive, 2A general purpose         A resistive, 2A general purpose           Rating         Switch A mange         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch A mange         0 to 90° with 5° intervals         Switch A         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals         Switch A         0 to 90° with 5° intervals           Recommended Range Usage         310 ib-in (25 Nm)         Switching         Sitching         Sitching           Recommended Range Usage         127 ib-in (20 Nm)         310 ib-in (35 Nm)         Sitching         Sitching           Factory Setting         Sitching         Sitching         Sitching         Sitching         Sitching           Runtime for 90° Opening or         125 sec. @ 60 Hz         Closing         NEMA Type 1         NEMA X In vertical position to 90° to the left and right of vertical           Maximum Angular Rotation         95°         Sitcone Free         Sitcone Free           Ambient Temperature         Operation	(Only for Modulating)	Input resistance		> 100K ohms			
Own (or modulation)         Description           Equipment Rating         Activity         Class 21 general purpose           Rating         Class III per EN60730         4A resistive, 2A general purpose           Rating         Class III per EN60730         4A resistive, 2A general purpose           Rating         Switch Range         4A resistive, 2A general purpose           Auxiliary         Switch Range         0 to 90° with 5° intervals           Switch Range         Switch Range         5°           Switch Bage         0 to 90° with 5° intervals         85°           Recommended Range Usage         127 lb-in (20 Nm)         310 lb-in (35 Nm)           Recommended Range Usage         127 lb-in (20 Nm)         310 lb-in (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 60 Hz         000°           Naminal Angle of Rotation         39°         39°           Maximum Angular Rotation         95°         100 lb-in (35 Nm)           Recommende Transport         -215 sec. 00 Hz         100 lb-in (20 Nm)           Nominal Angle of Rotation         30°         30°           Maximum Angular Rotation         95°         100 lb-in (20 Nm)           Gear Lubrication         Sitrope and Transport         -40°F to 130°F (23°C to 55°C)           Matie	Only or worksholding         Del         Del <thdel< th="">         Del         <thdel< th=""></thdel<></thdel<>	Feedback Signal	Voltage Output	0 to 10 Vdc				
Rating         Rating         Class III per EN60730           Dual Auxiliary Switch Contact Rating         GA resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary         Dual Auxiliary Switch Contact Rating         Cass III per EN60730         4A resistive, 2A general purpose           Auxiliary         Switch Ange         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch Range         0 to 90° with 5° intervals         Eactory Setting         5°           Switch B         0 to 90° with 5° intervals         Recommended Range Usage         45 to 90°           Recommended Range Usage         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 60 Hz         Closing           Nominal Angle of Rotation         90°         NEMA 2 in vertical position to 90° to the left and right of vertical           Maximum Anglar Rotation         90°         Sitcase         100 Cast Aluminum Alloy           Gear Lubrication         Sitcase and Transport         -25° to 130° (-32° to 55°(- 30° to 70°)           Ambient Temperature         016070 (corsing to EN0529         010 k173           Continoit         Gear Lubrication         Sitcase and Transport         -25° to 130° (-32° to 55°(- 30°)           Contraction         Canadian Conformanace         CUL ce	Rating         Rating         Class III per EN60730           Dual Auxiliary Switch Contact Rating         Gar existive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary Switch Voltage Rating         Dual Auxiliary Switch Voltage Switch A ange         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch Range         Switch A ange Usage         0 to 90° with 5° intervals         25 Switch 8           Recommended Range Usage         0 to 90° with 5° intervals         26 Switch 8           Recommended Range Usage         85°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         27 Store 60 Hz           Rating         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 50 Hz         Closing           Maximum Angular Rotation         90°         Maximum Angular Rotation         90°           Maximum Angular Rotation         90°         Store 20 Nz         Store 20 Nz           Nominal Angle of Rotation         90°         Store 20 Nz         Store 20 Nz           Maximum Angular Rotation         91°         Store 20 Nz         Store 20 Nz           Condition         Store 20 Nz         Store 20 Nz         Store 20 Nz           Nominal Angle of Rotation <td< td=""><td>•</td><td>Maximum output current</td><td colspan="3">DC 1mA</td></td<>	•	Maximum output current	DC 1mA				
Rating         Hating         Class III per EN60730           Auxiliary Switch Contact Rating         Dual Auxiliary Switch Contact Barling         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary         Dual Auxiliary Switch Voltage Rating         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch Range         Switch A general purpose         4A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary         Switch Range         0 to 90° with 5° intervals         24 to 250 Vac/ 12 to 30 Vdc           Featory Stifting         0 to 90° with 5° intervals         7           Recommended Range Usage         45 to 30°         16 Simich 70°           Factory Stifting         27         300°         125 sec. @ 50 Hz           Musterial Angle of P0° Opening or Closing         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Musterial Angle of Rotation         90°         95°           Masimum Angular Rotation         90°         150 sec. @ 50 Hz           Masimum Angular Rotation         95°         10 Ibin (35 Nm)           Masimum Angular Rotation         95°         10 Silicone Free           Arcustor         Indexing         URL Sing         ULL Sing           Coertineton         Silicone Free         20 P	Rating         Nation         Class III per EN60730           Dual Auxiliary Switch Contact Rating         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary Switch Voltage Rating         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Switch Range         0 to 90° with 5° intervals           Switch Range         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2°           Torque         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Ruthtine for 90° Opening or Closing         150 sec. @ 50 H2           Noming Angular Rotation         9°           Nationary Angular Rotation         9°           Nationary Angular Rotation         9°           Nationary Angular Rotation         9°           Nationary Angular Rotation         9°           Maximum Angular Rotation         9°           Maximum Angular Rotation         9°           Maximum Angular Rotation         9°           Maximum Angular Rotation         9°           Notat Temperature         -25°F to 130°F (32°C to 55°C)           Storage and Transport         -25°F to 130°F (32°C to 55°C)	Equipment		Class 2 ad	ccording to UL, CSA			
Auxiliary Features         Dual Auxiliary Switch Contact Bating         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Auxiliary Features         Dual Auxiliary Switch Voltage Rating         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Becommended Range Usage         0 to 90° with 5" intervals         Recommended Range Usage         0 to 45°           Factory Setting         5"         5"         5"           Switch A         0 to 90° with 5" intervals         85°           Factory Setting         85°         5"           Switch Ing Hysteresis         2"         310 Ibin (35 Nm)           Rummended Range Usage         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Rumtime for 90° Opening or Closing         125 sec. @ 60 Hz Closing         5"           Nominal Angle of Rotation         90°         95°           Mosting         Netwartal         Die Cast Auminum Aliguar Rotation           Mosterial         Die Cast Auminum Aliguar Rotation         95°           Masterial         Die Cast Auminum Aliguar Rotation         95% ft           Gonordition         25% fto 130°F (22°C to 55°C)         50% ft           Ambient Condition         25% fto 130°F (22°C to 55°C)         50% ft           Conformity         Canadato Conformance <td>Dual Auxiliary Switch Contact Rating         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Rating         Dual Auxiliary Switch Voltage         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Number 1         Switch Ange         0 to 90° witch 5° intervals         24 Vac/ 12 to 30 Vdc           Switch Ange         0 to 90° witch 5° intervals         75           Switch Bange Usage         0 to 90° witch 5° intervals         75           Factory Setting         85°         75           Switch Ing Hysteresis         2°         70           Fordury String         85°         75           Switch Ing Hysteresis         2°         70           Torque         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 50 Hz         70           Nominal Angle of Rotation         90°         70           Maximum Angular Rotation         90°         70           Material         Die Cast Auminum Alloy         72           Conditions         Silcone Free         Ambient Temperature         725° Ho 130°F (132°C to 55°C)           Strage and Transport         -40°F to 158°F (40°C to 70°C)         70°C           Ambient Temperature         00         725°F Ho 130°F (132°</td> <td>• •</td> <td>Rating</td> <td>Class III per EN60730</td> <td></td>	Dual Auxiliary Switch Contact Rating         6A resistive, 2A general purpose         4A resistive, 2A general purpose           Rating         Dual Auxiliary Switch Voltage         24 to 250 Vac/ 12 to 30 Vdc         24 Vac/ 12 to 30 Vdc           Number 1         Switch Ange         0 to 90° witch 5° intervals         24 Vac/ 12 to 30 Vdc           Switch Ange         0 to 90° witch 5° intervals         75           Switch Bange Usage         0 to 90° witch 5° intervals         75           Factory Setting         85°         75           Switch Ing Hysteresis         2°         70           Fordury String         85°         75           Switch Ing Hysteresis         2°         70           Torque         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 50 Hz         70           Nominal Angle of Rotation         90°         70           Maximum Angular Rotation         90°         70           Material         Die Cast Auminum Alloy         72           Conditions         Silcone Free         Ambient Temperature         725° Ho 130°F (132°C to 55°C)           Strage and Transport         -40°F to 158°F (40°C to 70°C)         70°C           Ambient Temperature         00         725°F Ho 130°F (132°	• •	Rating	Class III per EN60730				
Auxiliary Features         Rating         24 to 250 Vac/ 12 to 30 Vdc           Auxiliary Features         Switch A Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         50°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         30°           Switching Hysteresis         377 Ib-in (20 Nm)           Numiner Angle of Rotation         90°           Maximum Angle of Rotation         90°           Material         Die Cast Aluminum Angle of Rotation           Material         Die Cast Aluminum Angle of Rotation           Gear Lubrication         95°           Material         Die Cast Aluminum Angle of Rotation           Ambient         Ambient Temperature           Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -42°F to 135°F (-20°C to 70°C)           Ambient Temperature         -100°T to 158°F (-20°C to 70°C)           Ambient Temperature         000°T to 180°F (-32°C to 55°C)           Cordinarity         95% rh           UL Using         ULOG730 (to replace ULB	Rating         Line         Line         Line           Auxiliary         Dual Auxiliary Switch Voltage         24 to 250 Vac/12 to 30 Vdc         24 Vac/12 to 30 Vdc           Switch Range         Switch Range         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2°           Torque         177 Ibin (20 Nm)           Unuction         125 sec. @ 60 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Material         Die Cast Aluminum Aloy           Gear Lubrication         Sincone Free           Ambient Temperature         -25° to 130° (-32° Cto 73°C)           Storage and Transport         -40° to 138° (-40° Cto 70°C)           Ambient Temperature         -25° to 130° (-32° Cto 70°C)           Ambient Temperature         -25° to 130° (-132° Ct		Dual Auxiliary Switch Contact	· · ·	4A resistive, 2A general purpose			
Auxiliary Features         Rating         Control           Auxiliary Features         Switch Aarge Usage         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Recommended Range Usage         0 to 90° with 5° intervals           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2°           Torque         177 lb-in (20 Nm)         310 lb-in (35 Nm)           Runtime for 90° Opening or         125 sec. @ 60 Hz           Closing         Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Actuator         Inclosure         NEMA Type 1           Maximum Angular Rotation         95°           Actuator         Material         Die Cast Aluminum Alloy           Gear Lubrication         -225°F to 130°F (-32°C to 55°C)           Ambient         Tongeant         -40°F to 138°F (-40°C to 70°C)           Anbient	Auxiliary Features         Rating         Image: Constraint of the section of the sec							
Auxiliary Features         Rating         O         to 90° with 5° intervals           Auxiliary Features         Switch Aange         0 to 90° with 5° intervals         Accommended Range Usage         0 to 45°           Factory Setting         0 to 90° with 5° intervals         Recommended Range Usage         45 to 90°           Factory Setting         2°         300 tbin (35 Nm)         Torque           Function         100 period         125 sec. 09 60 Hz         100 period           Nominal Angle of Rotation         90°         150 sec. 09 50 Hz         100 period           Actuator         Network and	Auxiliary Features         Rating         Image: Constraint of the section of the sec		-	24 to 250 Vac/ 12 to 30 Vdc	24 Vac/ 12 to 30 Vdc			
Auxiliary         Switch A         0 to 90° with 5° intervals           Features         Recommended Range Usage         0 to 45°           Factory Setting         5°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         2°           Switching Hysteresis         2°           Torque         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 60 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Ambient         Operation         -25° to 130° f (-32° to 55° C)           Storage and Transport         -40° to 13° f (-40° C to 70° C)           Ambient         In Accordance With the Directive Set Forth by the European Union For           C €         Conformity         UL Listing	Auxiliary Features         Switch A         0 to 90° with 5° intervals Factory Setting           Featory Setting         5°           Switch B         0 to 90° with 5° intervals Factory Setting           Recommended Range Usage         45 to 90°           Factory Setting         2°           Switching Hysteresis         2°           Iorque         177 lb-in (20 Nm)         310 lb-in (35 Nm)           Numtime for 90° Opening or         125 sec. @ 60 Hz           Nominal Angle of Rotation         90°           Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Ambient Temperature           Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Temperature         0006/95% fr           Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (213 H x 83 W x 68 D)           UL ULSting </td <td></td> <td></td> <td></td> <td></td>							
Features         Recommended Range Usage         0 to 45°           Factory Setting         5°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         85°           Switching Hysteresis         2°           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 50 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Maximum Angular Rotation         95°           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Gear Lubrication           Storage and Transport         -40°F to 138°F (-40°C to 70°C)           Ambient Humidity         -95% ch           Conformity         UL Listing           Certification         18 ACM Storage and Transport           Certification         18 AWG           Candian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the European Union For         11 33/16 x 3 15/16 x 2 11/16           Candian Conformance         18 AWG           Cable Length         50/00 Vill storkes	Recommended Range Usage         0 to 45°           Factory Setting         5°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         85°           Switch Ing Hysteresis         2°           Torque         177 Ibin (20 Nm)         310 Ibin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 60 Hz         Closing           Nominal Angle of Rotation         90°         150 sec. @ 60 Hz           Nominal Angle of Rotation         90°         100 sec. @ 50 Hz           Nominal Angle of Rotation         90°         100 sec. @ 50 Hz           Nominal Angle of Rotation         90°         100 sec. @ 50 Hz           Nominal Angle of Rotation         90°         100 sec. @ 50 Hz           Nominal Angle of Rotation         95°         100 sec. @ 50 Hz           Actuator         Foclosure         IPE4 according to EM60529           Material         Dic Cast Aluminum Alloy         Gear Lubrication           Storage and Transport         -40° to 158° (-40° C to 70°C)           Ambient Temperature         C-21° to 130° (-12° to 130° (-12° to 130° (-12° to 158° (-12° to 130° (-12° to 130		Switch Range	-	•			
Factory Setting         5*           Switch B         0 to 90° with 5* intervals           Recommended Range Usage         45 to 90°           Factory Setting         85*           Switching Hysteresis         2*           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 50 Hz           Closing         100 sec. @ 50 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Material         0 sec. @ 50 Hz           Gear Lubrication         90°           Material         0 sec. @ 50 Hz           Gear Lubrication         90°           Material         0 sec. @ 100° (22 Controls)           Gear Lubrication         Silcione Free           Ambient Temperature         Operation           Operation         -25° ft to 130° f (32° C to 55° C)           Storage and Transport         -40° ft to 158° ft (-40° C to 70° C)           Ambient Humidity         95% rh           (non-condensing)         UL 60730 (to replace UL873)           UL Usting         2004/108/EC           Conformity         In Accordance With the Directive Set Fort	Factory Setting         5°           Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         85°           Switching Hystersis         2°           Torque         177 lbin (20 Nm)         2°           Runtime for 90° Opening or         125 sec. @ 60 Hz           Closing         Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicione Free           Ambient         Storage and Transport         -40°F to 130°F (-42°C to 50°C)           Grandan Conformance         C-UL certified to Canadian Standard C2. No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           Electromagnetic Compatibility         2004/108/fcC           Opmention         13 feet (0.9 m)         (300 × 100 × 66)           Weight         2.24 St (18 g.)	Auxiliary	Switch A	0 to	o 90° with 5° intervals			
Switch 8         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         85°           Switching Hysteresis         2°           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 50 Hz         Nominal Angle of Rotation         90°           Nominal Angle of Rotation         90°         125 sec. @ 50 Hz         Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°         100 Ext 1	Switch B         0 to 90° with 5° intervals           Recommended Range Usage         45 to 90°           Factory Setting         85°           Switching Hysteresis         2°           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 60 Hz         Nominal Angle of Rotation         90°           Nominal Angle of Rotation         90°         125 sec. @ 10 Hz         Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°         100 lbin (35 Nm)         100 lbin (35 Nm)         100 lbin (35 Nm)           Actuator         Nominal Angle of Rotation         90°         100 lbin (35 Nm)         100 lbin (35 Nm)           Material         Decast Mumium Angular Rotation         95°         100 lbin (35 Nm)         100 lbin (35 Nm)           Material         Decast Mumium Angular Rotation         95°         100 lbin (35 Nm)         100 lbin (35 Nm)           Actuator         Material         Decast Mumium Angular Rotation         95°         100 lbin (35 Nm)         100 lbin (35 Nm)           Actuator         Material         Decast Mumium Angular Rotation         95°         100 lbin (35 Nm)         100 lbin (35 Nm)           Actuator         Material         Decast Mumium	Features	Recommended Range Usage		0 to 45°			
Recommended Range Usage         45 to 90"           Factory Setting         85"           Factory Setting         85"           Switching Hysteresis         2"           Torque         177 lbin (20 Nm)         2"           Runtime for 90" Opening or         125 sec. @ 50 Hz           Nominal Angle of Rotation         90"           Maximum Angular Rotation         90"           Maximum Angular Rotation         95"           Gear Lubrication         Silicone Free           Ambient Temperature         Operation           Operation         -25"F to 130"F (-32"C to 55"C)           Storage and Transport         -40"F to 158"F (-40"C to 70"C)           Ambient Temperature         Operation           Operation         -25"F to 130"F (-32"C to 55"C)           Storage and Transport         -40"F to 158"F (-40"C to 70"C)           Conformity         In Accordance With the Directive Set Forth by the European Union For	Recommended Range Usage         45 to 90°           Factory Setting         85°           Switching Hysteresis         2°           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 60 Hz         310 lbin (35 Nm)           Nominal Angle of Rotation         90°         90°           Maximum Angular Rotation         90°         150 sec. @ 50 Hz           Nominal Angle of Rotation         90°         162 sec. @ 50 Hz           Maximum Angular Rotation         90°         162 sec. @ 50 Hz           Nominal Angle of Rotation         90°         162 sec. @ 50 Hz           Material         Die Cast Aluminum Alloy         162 sec. @ 50 Hz           Gear Lubrication         Silicone Free         Ambient Temperature           Operation         -25°F to 130°F (-32°C to 55°C)         50 sec. @ 50 Hz           Storage and Transport         -40°F to 158°F (-40°C to 70°C)         200 sec. @		Factory Setting	-				
Factory Setting         85°           Switching Hysteresis         2°           Switching Hysteresis         2°           Function         Runtime for 90° Opening or Closing         125 sec. @ 60 Hz 125 sec. @ 60 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Maximum Angular Rotation         95°           Maximum Angular Rotation         95°           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Ambient Temperature           Operation         -25° to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158° (-40°C to 70°C)           Ambient Temperature         000000000000000000000000000000000000	Factory Setting         85°           Switching Hysteresis         2"           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or         125 sec. @ 50 Hz           Closing         150 sec. @ 50 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Maximum Angular Rotation         95°           Material         Die Cast Aluminum Alloy           Gear Lubrication         1P54 according to EN60529           Material         Die Cast Aluminum Alloy           Gear Lubrication         25°F to 130°F (32°C to 55°C)           Storage and Transport         -40°F to 158°F (40°C to 57°C)           Ambient Temperature         00peration           Queration         95% rh           (non-condensing)         UL60730 (to replace UL873)           Cettification         Conditions Free           Cettification         11 Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility         2004/108/EC           Conformity         Life Cycle         50,000 Full Strokes at rated Torque and Transport           Cable Length         3 feet (0,9 m)         1113/16 x 315/16 x 211/16           UL UStage Directive			0 to				
Switching Hysteresis         2*           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90 "Opening or Closing         125 sec. @ 60 Hz           Nominal Angle of Rotation         90"           Maximum Angular Rotation         95"           Maximum Angular Rotation         95"           Material         Die Cast Aluminum Angular           Gear Lubrication         Silicone Free           Ambient         Operation         -25" fc 130"fc (-32"C to 55"C)           Storage and Transport         -40"F to 158"F (-40"C to 70"C)           Ambient Humidity (non-condensing)         95% rh           Canadian Conformance         C-U certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)           Cable Length         3 (28 H x 3 1/4 W x 2 2/3 D         11 31/6 x 3 15/16 x 2 11/16           Cable Length         3 (28 H x 3 1/4 W x 2 2/3 D         (300 x 100 x 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)	Switching Hysteresis         2*           Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90* Opening or Closing         125 sec. @ 50 Hz           Nominal Angle of Rotation         90*           Maximum Angular Rotation         90*           Maximum Angular Rotation         95*           Maximum Angular Rotation         95*           Maximum Angular Rotation         95*           Material         Die Cast Aluminum Miloy           Gear Lubrication         Silicone Free           Ambient Temperature         Operation           Operation         -25*Ft to 130*Ft (-32*C to 55*C)           Storage and Transport         -40*Ft to 136*Ft (-40*C to 70*C)           Ambient Humidity         95% rh           Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           Cable Length         310 Hx 2 1/10           ULI Storage control signal controls the actuator is angle of rotation is a 14 W x 2 2/3 D         1113/16 x 3 15/16 x 2 11/16           Cacadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compati							
Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 60 Hz         125 sec. @ 50 Hz           Nominal Angle of Rotation         90°         95°           Actuator Housing         Enclosure         NEMA Type 1         NEMA 2 in vertical position to 90° to the left and right to f vertical           Maximum Angular Rotation         95°         NEMA 2 in vertical position to 90° to the left and right to f vertical           Material         Die Cast Aluminum Alloy         Gear Lubrication         Silicone Free           Ambient Conditions         Ambient Temperature         -25° f to 130° f (-32° C to 55° C)         Storage and Transport         -40° f to 158° f (-40° C to 70° C)           Ambient Humidity (non-condensing)         95% rh         100° f to 158° f (-40° C to 70° C)         100° f to 158° f (-40° to 70° C)           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93         11 Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility (ENC)         2006/95/EC         1131/16 × 315/16 × 211/16         1131/16 × 315/16 × 211/16           Geale Length         310 et 10.9 m)         1182/16 × 211/16         100 × 68)         100 × 68)           Weight         2.2 lbs. (14g.)         4.4 lbs. (2 kg.)         A f A ta Xa 20 cortrol signa	Torque         177 lbin (20 Nm)         310 lbin (35 Nm)           Runtime for 90° Opening or Closing         125 sec. @ 60 Hz         125 sec. @ 50 Hz           Nominal Angle of Rotation         90°         90°           Maximum Angular Rotation         90°         95°           Actuator         Enclosure         NEMA 7ype 1         NEMA 2 in vertical position to 90° to the left and right of vertical           Material         Die Cast Aluminum Alloy         Gear Lubrication         95°           Ambient         Coperation         -25°F to 130°F (-32°C to 5°C)           Storage and Transport         -40°F to 135°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Qeeration         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)           C C         Cadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)           Cable Length         3 feet (0, 9m)           Life Cycle         50,0000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 HX 3 1/4 W x 2 2/3 D (21 3 HX 3 3 W x 68 D)         (300 x 100 x 68)							
Function         Runtime for 90° Opening or Closing         125 sec. @ 60 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Actuator Housing         Enclosure         NEMA Type 1           Matrial         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient temperature         Operation         -25°F to 130°F (-32°C to 55°C)           Conditions         Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Temperature         Operation         -25°F to 130°F (-32°C to 55°C)           Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           Cable Length         2006/55/EC           Pre-Cabled Connection         18 A/W X 2 2/3 D           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H × 3 1/4 W × 2 2/3 D           (Roasing Control signal control signal controls ignal controls the height of totation is pro	Function         Runtime for 90° Opening or Closing         125 sec. @ 60 Hz 150 sec. @ 60 Hz           Norminal Angle of Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Material         IP54 according to EN60529           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Operation           Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity         95% rh           (non-condensing)         95% rh           Agency         UL Listing         UL60730 (to replace UL873)           Certification         Canadian conformance         C-UL certificatio to anadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           (EMC)         2004/108/EC         Conformity           Viscellaneous         8/B H × 31/A W × 22/3 D         11 31/6 × 3 15/16 × 2 11/16           (213 H × 83 W × 68 D)         (300 x 100 × 68)         (300 x 100 × 68)							
Function         Closing         150 sec.@ 50 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Actuator         Enclosure         NEMA Type 1         NEMA 2 in vertical position to 90° to the left and right of vertical           Maximum Angular Rotation         95°         NEMA 2 in vertical position to 90° to the left and right of vertical           Material         Die Cast Aluminum Alloy         Enclosure         Instantian and the left and right of vertical           Ambient         Gear Lubrication         Silicone Free         Ambient           Conditions         Ambient Temperature	Closing         150 sec. @ 50 Hz           Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Actuator         Enclosure         NEMA Type 1         INFA 2 in vertical position to 90° to the left and right of vertical           Material         Die Cast Aluminum Alloy         Gear Lubrication         310 certification           Cosing         Material         Die Cast Aluminum Alloy         Gear Lubrication           Gear Lubrication         Silicone Free         Ambient Temperature         00 certification           Ambient Temperature         -25°F to 130°F (-32°C to 55°C)         55°C           Storage and Transport         -40°F to 158°F (-40°C to 70°C)         Ambient Humidity           Agency         UL Listing         UL60730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           Centormity         In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           Cable Length         3 feet (0.9 m)         (300 × 100 × 68)           Viscellaneous         B 3/8 H x 31/4 W x 22/3 Int 31/4 W x 22/3 Int 31/6 x 2 11/16           Dimensions         8 3/8 H x 31/4 W x 22/3 Int 31/6 x 2 11/16           Cable Length         2.2 lb				•			
Nominal Angle of Rotation         90°           Maximum Angular Rotation         90°           Maximum Angular Rotation         90°           Actuator Housing         In Coloure         NEMA Type 1         NEMA 2 in vertical position to 90° to the left and right of vertical           Material         Die Cast Aluminum Alloy         Gear Lubrication         Silicone Free           Ambient Temperature         Operation         -25°F to 130°F (-32°C to 55°C)           Andient Humidity         95% rh           Angency         UL Listing         ULG0730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility         2004/108/EC           Conformity         In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility         2004/108/EC           Miscellaneous         In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility         2004/108/EC           Conformity         Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Miscellaneous         Iffe Cycle         50,000 Full Strokes at rated Torque and Temperature           Operation	Nominal Angle of Rotation         90°           Maximum Angular Rotation         95°           Actuator Housing         Enclosure         NEMA Type 1         NEMA 2 in vertical position to 90° to the left and inpt of vertical           Material         Die Cast Aluminum Alloy         Gear Lubrication         Silicone Free           Ambient         Operation         Silicone Free         Material           Operation         -25°F to 130°F (-32°C to 55°C)         Ambient Humidity (non-condensing)         Material           Agency         UL Listing         UL Listing         UL Listing         UL Listing           Cariadian Conformance         C-UL certificed to Canadian Standard C2.2 No. 24-93         Electromagnetic Compatibility           Cable Length         18 AWG         3 feet (0.9 m)         113/16 x 3 15/16 x 2 11/16           Cable Length         3 feet (0.9 m)         (213 H x 83 W x 68 D)         (300 x 100 x 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)         A floating control signal control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to r	From add a m	1 5	-				
Maximum Angular Rotation         95°           Actuator Housing         Enclosure         NEMA Type 1         INEMA 2 in vertical position to 90° to the left and right of vertical           Material         Die Cast Aluminum Alloy         Gear Lubrication         Silicone Free           Ambient         Gear Lubrication         Silicone Free           Ambient Temperature         Operation         -25°F to 130°F (-32°C to 55°C)           Operation         -25°F to 130°F (-32°C to 55°C)         (-40°F to 158°F (-40°C to 70°C)           Ambient Humidity         95% rh         (non-condensing)         95% rh           Agency         UL Listing         UL60730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           (EMC)         1000/95/EC         Pre-Cabled Connection           Vieght         3 48 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           (213 H x 83 W x 68 D)         (300 x 100 x 68)         (200 x 100 x 68)           Weight         2.2 los. (1 kg)         4.4 los. (2 kg.)         ant (3 saplied A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 6 (G-Y	Maximum Angular Rotation         95°           Actuator Housing         NEMA Type 1         NEMA 2 in vertical position to 90° to the left and right of vertical           Material         Die Cast Aluminum Alloy         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 138°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         UL60730 (to replace UL873)         UL listed to UL873           CCE         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Pre-Cabled Connection         18 AWG         2006/95/EC           Pre-Cabled Connection         18 AWG         2004/108/EQ         2004/108/EQ           Control signal control signal controls the actuator. The actuator's angle of rotation is proportional to the length of 2.2 IS. (1 kg.)         4.4 Ib. (2 kg.)           Pre-Cabled Connection         1113/16 x 3 15/16 x 2 11/16         2001 x00 x 68)           Uife Cycle         Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         1113/16 x 3 15/16 x 2 11/16 <td>Function</td> <td>6</td> <td>150</td> <td></td>	Function	6	150				
Actuator Housing         Instruction of the left and inpose of the left and is applied in left and is applied and inpose of the left and is position. In the event of a lockage in the damper and in a normal is applied and inpose of the left and is position. In the event that only the control signal is on the left and is position. In the event that only the control signal is on the damper mator. In the event of a power failure of the actuator holds its position. In the event that only the control signal is on the damper mator. In the event of a power failure is and inpose of the actuator is position. In the event that only the co	Actuator Housing Actuator Housing Haterial Haterial Housing Haterial Hat							
Actuator Housing         Enclosure         INEMA Type 1         right of vertical           Material         IP54 according to EN60529           Material         Die Cast Alumin Alloy           Gear Lubrication         Silicone Free           Ambient Conditions         Ambient Temperature           Ambient Humidity         95% rh           Operation         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity         95% rh           (non-condensing)         UL listed to UL873           Certification         Canadian Conformance           Coll Caradian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)           Cable Length         2004/108/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           (floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwi	Actuator Housing         Enclosure         NEWA Type 1         right of vertical           Material         IP54 according to EN60529           Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Operation           Conditions         First of the condensing           Ambient Humidity         95% rh           Innocedensing)         95% rh           Queration         C-UL certified to Canadian Standard C2.2 No. 24-93           Ceffication         Canadian Conformance           Ceffication         Canadian Conformance           Ceffication         Canadian Conformance           Ceffication         In Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility         2004/108/EC           Low Voltage Directive         2006/95/EC           University         Silicon E free (0.9 m)           Life Cycle         Soloo Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H × 3 1/4 W × 2 1/3 D         11 31/16 × 3 15/16 × 2 11/16           Cable Length         2.10s. (1 kg.)         4.4 bis. (2 kg.)           Poeration         Silicone's and a fored (0.9 m)           Life Cycle         Soloo Full Strokes at rated Torque and Tempera							
Actuator         IP54 according to EN60529           Housing         Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient Conditions         Ambient Temperature         Operation           Ambient Conditions         -25°F to 130°F (-32°C to 55°C)           Agency         UL Listing         UL60730 (to replace UL873)           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           Certification         In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)           Conformity         In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)           Miscellaneous         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)         113/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)           Using control signal controls the actuator. The actuator's angle of rotation is proportional to the length of (Gause the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator of a power failure or with no control voltage, the actuator holds its position.           Operation (Produlating Control)         A floating control sign	Actuator Housing         Image: Matrial description of the second se		Enclosuro	NEMA Type 1	•			
Housing         Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient Conditions         Operation         -25°F to 130°F (-32°C to 55°C)           Ambient Temperature         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         UL60730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Low Voltage Directive         2006/95/EC         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)         (300 x 100 x 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal to wires 1 and 7 (G-V2) causes the actuator coupling to rotate counterclockwise. A 24 Va control signal to wires 1 and 7 (G-V2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (G-V2) cause the actuator coupling to rotate counterclockwise. A 24 Va control signal to wires 1 and 7 (G-V2) causes the actuator coupling to rotate counterclockwise. A 24 Va control signal to wires 1 and 7 (G-V2) causes the actuator coupling to rotate counte	Housing         Material         Die Cast Aluminum Alloy           Gear Lubrication         Silicone Free           Ambient         Coperation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity         95% rh           (non-condensing)         UL listed to UL873           Candian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           Ceffication         In Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility         2004/108/EC           Conformity         Fre-Cabled Connection           Miscellaneous         If C Cycle           Wiscellaneous         Safet 0.9 m)           Uffe Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         83/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           Weight         .2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator sagle of rotation is proportional to the length of time the signal active rotate conterclockwise. A 24 Vac control signal to wires 1 and 7 (G-2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-2) causes the actuato	Actuator	Literosure					
Gear Lubrication         Silicone Free           Ambient Conditions         Ambient Temperature         Operation         -25°F to 130°F (-32°C to 55°C)           Ambient Turnidity         Operation         -25°F to 130°F (-32°C to 55°C)           Ambient Humidity         95% rh           (non-condensing)         95% rh           Agency         UL Listing         UL60730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility         2000/108/EC           Conformity         Electromagnetic Compatibility         2000/108/EC         2000/95/EC           Pre-Cabled Connection         18 AWG         Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature         0 jumensions           Dimensions         8 3/8 H × 3 1/4 W × 2 2/3 D         11 13/16 × 3 15/16 × 2 11/16 (213 H × 83 W × 68 D)         (300 × 100 × 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the control signal to wires 1 and 5 (G-YL) causes the actuator coupling to rotate clockwise. A 24 vac control signal to wires 1 and 5 (G-YL) causes the actuator coupling to	Gear Lubrication         Silicone Free           Ambient Conditions         Ambient Temperature         Operation         -25°F to 130°F (-32°C to 55°C)           Storage and Transport         -40°F to 158°F (-40°C to 70°C)         Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         UL Listing         UL Listing         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Th Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Th Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Viscellaneous         Th Accordance With the Directive Set Forth by the European Union For         18 AWG           Cable Length         3 feet (0.9 m)         3 feet (0.9 m)           Uff Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 3/16 x 3 15/16 x 2 11/16           Reading Control         A floating control signal controls ignal to wires 1 and 5 (G-Y1) causes the actuator coupling to	Housing	Material					
Ambient Conditions         Ambient Operation         -25°F to 130°F (-32°C to 55°C)           Ambient Conditions         Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         95% rh           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Miscellaneous         Infecordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Use Voltage Directive         2006/95/EC         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)         1113/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)         (300 x 100 x 68)           Weight         2.2 Ibs. (1 kg.)         4.4 lbs. (2 kg.)         4.4 lbs. (2 kg.)           Operation (Floating Control)         A Roating control signal controls the actuator roupling to rotate couchrois a proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7	Ambient Conditions         Ambient Operation         -25°F to 130°F (-32°C to 55°C)           Ambient Conditions         Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency Certification         UL listing         0160730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Pre-Cabled Connection         18 AWG         Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature         Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)           Operation Floating Control         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure, or with no control voltage, the actuator holds its position.           Operation				•			
Ambient Conditions         Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         UL Listing           Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility           Electromagnetic Compatibility (EMC)         2004/108/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16 (20 strokes at rated Torque and Temperature           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure or with no control voltage, the actuator holds its position. In the event that only the control signal	Ambient Conditions         Storage and Transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         ULE0730 (to replace UL873)         UL listed to UL873           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Du Voltage Directive         2006/95/EC         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)         Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           Weight         2.2 Ibs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation Produlating Control.         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper		Ambient Temperature					
Storage and transport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency Certification         UL Listing         UL Listing         UL Listed to UL873           Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         In Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility (EMC)         2004/108/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           Veight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           (Floating Control)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 0 and 7 (Ya) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. The areverse the direction of rotation, the wires 6 and 7 (	Storage and Iransport         -40°F to 158°F (-40°C to 70°C)           Ambient Humidity (non-condensing)         95% rh           Agency         UL Listing         UL Listing           Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         In Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility (EMC)         2004/108/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           Weight         2.2 Ibs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 5 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 6 and 7 (Y1 and Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 6 and 7 (Y1 and Y2) causes the damper actuator. The angle of rotation is proportional to the control signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal is lost, the actuator returns to the "0" position. In		Operation	-25°F to 130°F (-32°C to 55°C)				
Ambient Humidity (non-condensing)       95% rh         Agency Certification       UL Listing       UL60730 (to replace UL873)       UL listed to UL873         Certification       Canadian Conformance       C-UL certified to Canadian Standard C2.2 No. 24-93         In Accordance With the Directive Set Forth by the European Union For       Electromagnetic Compatibility (EMC)       2004/108/EC         Void age Directive       2006/95/EC       Pre-Cabled Connection       18 AWG         Cable Length       3 feet (0.9 m)       11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)       (300 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)       A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate colckwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation (Modulating Control)       In the event of a blockage in the damper motor. In the event of a power failure, the actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event of a blockage in the damper, the actuator returns to the "0" position.         Operation (Modulating Control)       In the eve	Ambient Humidity (non-condensing)       95% rh         Agency Certification       UL listing       UL60730 (to replace UL873)       UL listed to UL873         Canadian Conformance       C-UL certified to Canadian Standard C2.2 No. 24-93         In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)       2004/108/EC         Void tage Directive       2006/95/EC         Pre-Cabled Connection       18 AWG         Cable Length       3 feet (0.9 m)         Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D       11 13/16 x 3 15/16 x 2 11/16         Qight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate colockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate conterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Poperation Produlating Control       In the event of a blockage in the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Operioad Prot		Storage and Transport	-40°F to 158°F (-40°C to 70°C)				
Agency       UL Listing       UL60730 (to replace UL873)       UL listed to UL873         Certification       Canadian Conformance       C-UL certified to Canadian Standard C2.2 No. 24-93         In Accordance With the Directive Set Forth by the European Union For       Electromagnetic Compatibility (EMC)       2004/108/EC         Conformity       Electromagnetic Compatibility (EMC)       2004/108/EC         Miscellaneous       Pre-Cabled Connection       18 AWG         Cable Length       3 feet (0.9 m)         Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D       (300 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the damper actuator. The actuator holds its position.         (Modulating Control)       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The actuator is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event of a blockage in the damper, the actuator returns to the "0" position.	In Accordance with the Directive Set Forth by the European Union For           Certification         In Accordance With the Directive Set Forth by the European Union For           Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 31/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)           Operation Floating Control         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator. The actuator of a power failure or with no control voltage, the actuator holds its position.           Operation Protection         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The actuator return signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator returns to the "0" position.           In the actuator.         In the event of a blockage in the damper, the actuator returns to the "0" position. </td <td>conditions</td> <td>Ambient Humidity</td> <td colspan="2"></td>	conditions	Ambient Humidity					
Certification         Canadian Conformance         C-UL certified to Canadian Standard C2.2 No. 24-93           In Accordance With the Directive Set Forth by the European Union For         Electromagnetic Compatibility (EMC)         2004/108/EC           Conformity         Electromagnetic Compatibility (EMC)         2004/108/EC           Miscellaneous         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)         113/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)         0000 x 100 x 68)           Weight         2.2 lbs. (1 kg.)         11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)         000 x 100 x 68)           Operation (Floating Control)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate couterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal a 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection	Certification       Canadian Conformance       C-UL certified to Canadian Standard C2.2 No. 24-93         In Accordance With the Directive Set Forth by the European Union For       Electromagnetic Compatibility       2004/108/EC         Conformity       Electromagnetic Compatibility       2004/108/EC         Viscellaneous       Pre-Cabled Connection       18 AWG         Cable Length       3 feet (0.9 m)         Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D       11 13/16 x 3 15/16 x 2 11/16         (213 H x 83 W x 68 D)       (300 x 100 x 68)         Weight       2.2 Ibs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Poperation       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal . A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In		(non-condensing)		35%111			
Operation (Floating Control)         A floating control signal control signal control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation of the damper motor. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator resures to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.	C € Conformity         In Accordance With the Directive Set Forth by the European Union For Electromagnetic Compatibility (EMC)           Miscellaneous         Electromagnetic Compatibility (EMC)         2004/108/EC           Miscellaneous         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)         11 13/16 x 3 15/16 x 2 11/16 (203 H x 83 W x 68 D)           Operation Roating Control         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation Propertiond Modulating Control         A continuous 0 to 10 Vdc signal for a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper,	Agency	UL Listing	UL60730 (to replace UL873) UL listed to UL873				
C € Conformity         Electromagnetic Compatibility (EMC)         2004/108/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H × 3 1/4 W × 2 2/3 D (213 H × 83 W × 68 D)         11 13/16 × 3 15/16 × 2 11/16 (200 × 100 × 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prev	Ce         Electromagnetic Compatibility (EMC)         2004/108/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)         11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)           Operation Floating Control         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation Propertion Protection         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.	Certification			o Canadian Standard C2.2 No. 24-93			
Conformity         (EMC)         2004/109/10           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)         11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)           Operation (Floating Control)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal a 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.	Conformity         (EMC)         2004/100/10           Image: Conformity         Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Poperation         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is output signal is overload protected over the full range to prevent damage to the actuator.           Modulating Control         In the event of a blockage in the damper, the actuator is overload protected over the full range to							
Conformity         LEWC/         2006/95/EC           Low Voltage Directive         2006/95/EC           Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           (213 H x 83 W x 68 D)         (300 x 100 x 68)         (300 x 100 x 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal a 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event of a blockage in the damper, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator returns t	Conformity         Lew Voltage Directive         2006/95/EC           Miscellaneous         Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D         11 13/16 x 3 15/16 x 2 11/16           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate clockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Poperation         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event of a blockage in the damper, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.	CE	5 1 7	netic Compatibility 2004/108/EC				
Pre-Cabled Connection         18 AWG           Cable Length         3 feet (0.9 m)           Life Cycle         50,000 Full Strokes at rated Torque and Temperature           Dimensions         8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)         11 13/16 x 3 15/16 x 2 11/16 (300 x 100 x 68)           Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal a 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.	Miscellaneous       Pre-Cabled Connection       18 AWG         Cable Length       3 feet (0.9 m)         Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (300 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal to the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An imported loop will cause prescription proportional to be loop will cause prescription proportional to be loop will cause prescription protected over the full range to prevent damage to the actuator.	Conformity						
Miscellaneous       Cable Length       3 feet (0.9 m)         Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)         Operation (Floating Control)       A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation (Modulating Control)       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload Protection       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.	Miscellaneous       Cable Length       3 feet (0.9 m)         Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)         Operation Floating Control       A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation Modulating Control       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal a 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload Protection       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An imprepareduct upped leop will cause processing repositioning that will cherten the life of the actuator.	-	-	2				
Miscellaneous       Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (200 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation (Modulating Control)       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload Protection       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An improper tuned loop will cause exercision repositioning that will shorten the life of the actuator.	Miscellaneous       Life Cycle       50,000 Full Strokes at rated Torque and Temperature         Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (213 H x 83 W x 68 D)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An improperty tuned loop will cause excercing repositioning that will shorten the life of the actuator.							
Miscellaneous       Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (300 x 100 x 68)         Operation (Floating Control)       Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation (Modulating Control)       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload Protection       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An improperty tuped loop will cause accessive respective respe	Dimensions       8 3/8 H x 3 1/4 W x 2 2/3 D (213 H x 83 W x 68 D)       11 13/16 x 3 15/16 x 2 11/16 (300 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event of a blockage in the damper, the actuator returns to the "0" position.         Overload Protection       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An improperty tuped loop will cause excessive represitioning that will shorten the life of the actuator.							
(213 H x 83 W x 68 D)       (300 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation (Modulating Control)       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event of a blockage in the damper, the actuator returns to the "0" position.         Overload Protection       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An improperty typed loop will cause processive represitioning that will chorten the life of the actuator.	(213 H x 83 W x 68 D)       (300 x 100 x 68)         Weight       2.2 lbs. (1 kg.)       4.4 lbs. (2 kg.)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.         Operation       A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.         Overload       In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.         Life       An improperty tuped loop will cause excessive represitioning that will shorten the life of the actuator.	Miscellaneous						
Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           Operation (Floating Control)         A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the sig- nal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation (Modulating Control)         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload Protection         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.           Life         An improperty tuped loop will cause excessive respective respec	Weight         2.2 lbs. (1 kg.)         4.4 lbs. (2 kg.)           A floating control signal controls the actuator. The actuator's angle of rotation is proportional to the length of time the signal is applied. A 24 Vac control signal to wires 1 and 6 (G-Y1) causes the actuator coupling to rotate clockwise. A 24 Vac control signal to wires 1 and 7 (G-Y2) causes the actuator coupling to rotate counterclockwise. To reverse the direction of rotation, the wires 6 and 7 (Y1 and Y2) can be interchanged. In the event of a power failure or with no control voltage, the actuator holds its position.           Operation         A continuous 0 to 10 Vdc signal from a controller to wire 8 (Y) operates the damper actuator. The angle of rotation is proportional to the control signal. A 0 to 10 Vdc position feedback output signal is available between wire 9 (U) and wire 2 (G0) to monitor the position of the damper motor. In the event of a power failure, the actuator holds its position. In the event that only the control signal is lost, the actuator returns to the "0" position.           Overload         In the event of a blockage in the damper, the actuator is overload protected over the full range to prevent damage to the actuator.           Life         An improperty tuped loop will cause expressive repositioning that will shorten the life of the actuator.		Dimensions					
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