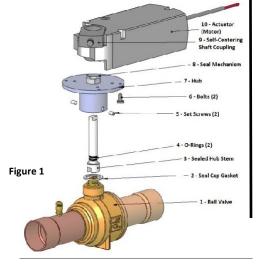


CYCLEMASTER® BALL VALVES SERIES II & III ACTUATOR AND WEATHERPROOF ENCLOSURE INSTALLATION INSTRUCTIONS

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).

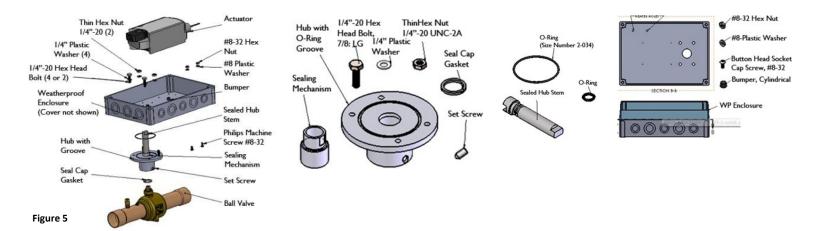


Figure 2 Shaft Coupling



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:

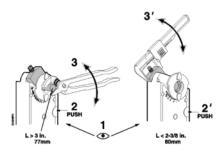
1. Hold down the PUSH button.

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.

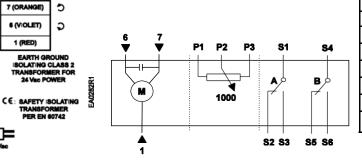
2. Hub is tightened to Seal Mechanism, not to bottom of the valve neck. Seal Cap Gasket should be tight enough to seal valve surface.

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.

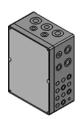
Weatherproof Enclosure Kits - Series II

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			
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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				
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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	-				
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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							
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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)							
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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)				
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