



**BETTIS™**

**TorqPlus™**  
Electric Valve  
Actuators  
and Controls



**EMERSON. CONSIDER IT SOLVED.™**

# INQUIRIES

Your inquiries for Bettis electric actuators can be processed efficiently when supplied with the information requested on this page. Please use this page as a guide or submittal. If you need assistance, just ask your Bettis sales representative.

## Customer

Co. \_\_\_\_\_  
St. \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_  
Zip \_\_\_\_\_  
Attn: \_\_\_\_\_

## Detail

Job \_\_\_\_\_  
Item \_\_\_\_\_ of \_\_\_\_\_ Qty. \_\_\_\_\_  
Mark / Tag \_\_\_\_\_

## Valve Information

Mfg.: \_\_\_\_\_ Type: \_\_\_\_\_ Size: \_\_\_\_\_ Fig No. \_\_\_\_\_  
Rotation to CLOSE Position:  Clockwise  Counterclockwise as viewed from above (Std. is CW)  
Maximum Sizing Torque, lb-in: \_\_\_\_\_ (Safety factor included)

## Actuator Information

Application:  Open-Close, 2 position, Service  Spring Return  
 Jogging Multi-position Service  Fail CW  
 Automatic Modulating Service  Fail CCW  
Ambient Temperature: From \_\_\_\_\_ °F to \_\_\_\_\_ °F (-40°F to +140°F standard)  
Nominal Operating Speed: \_\_\_\_\_ seconds per 90° (min-max range)  
Motor Voltage: \_\_\_\_\_ Ph/ \_\_\_\_\_ Hz/ \_\_\_\_\_ VAC or VDC  
Control Voltage: 1Ph/ \_\_\_\_\_ Hz/ \_\_\_\_\_ VAC (3-phase motor only)  
Motor Duty Cycle:  30% or  100%  
Total Number of Limit Switches: \_\_\_\_\_  
Enclosure:  Type 4 CSA Certified for: non-hazardous indoor and outdoor locations to protect against wind-blown dust and rain, splashing water and hose-directed water.  
 Type 4 and 7 CSA Certified for: hazardous and non-hazardous indoor and outdoor locations to protect against wind-blown dust and rain, splashing water and hose-directed water plus locations classified as Class I and II, Groups C, D, E, F and G as defined in the National Electrical Code.

## Integral Control Items (as required)

- Motor Brake (standard on EM-100 in 1Ph/60Hz/115VAC and all 800-Series with torques of 6,000 lb-in or greater)
- Multi-Turn Control: Set for \_\_\_\_\_ output turns (maximum of 30)
- Heater and Thermostat: 1Ph/ \_\_\_\_\_ Hz/ \_\_\_\_\_ VAC
- Three Position Operation: Set for \_\_\_\_\_ °/ \_\_\_\_\_ °/ \_\_\_\_\_ ° Stops
- Control Relay for:  normally clockwise or  normally counterclockwise operation and operating on  1Ph/ \_\_\_\_\_ Hz/ \_\_\_\_\_ VAC or  \_\_\_\_\_ VDC
- Single Feedback Potentiometer: \_\_\_\_\_ Ohm/4 Watt
- Electronic Positioner: with  4-20mA or  0-10v or  1-5v input and set for minimum output at  clockwise or  counterclockwise position
- Electronic Position Transmitter: 4-20 mA output set for minimum output at  clockwise or  counterclockwise position

## Separate Controls (as required)

- Manual Operating Station:  Type 4 or  Type 7 enclosure suitable for  wall mounting or  close coupling
  - 1Ph/ \_\_\_\_\_ Hz/ \_\_\_\_\_ VAC to include:
  - ( \_\_\_\_\_ ) \_\_\_\_\_ Position Selector Switch marked \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
  - ( \_\_\_\_\_ ) Push Buttons marked \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
  - ( \_\_\_\_\_ ) Lights marked and colored \_\_\_\_\_ - \_\_\_\_\_ / \_\_\_\_\_ - \_\_\_\_\_ / \_\_\_\_\_ - \_\_\_\_\_
  - ( \_\_\_\_\_ ) Reversing Starter with 1 Ph/ \_\_\_\_\_ Hz/ \_\_\_\_\_ VAC control voltage
- Other \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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