Series 17 Electric Actuator

The Series 17 electric actuator features a reversing motor with multi-voltage capabilities; 85vac-265vac (50/60Hz), 24vdc. An internal heater, auxiliary switches, and two position indicating LED's, are standard equipment. Additional features include a permanently lubricated steel gear train, NEMA Type 4 & 6 enclosure with a thermally bonded powder coat finish, declutchable manual override, visual mechanical position indication, ISO bolt circle, and flying leads.

Standard Features

- **Size:** Compact, lightweight
- **Motor:** Low current, reversing DC motor
- **Multi-voltage:** 85-265 VAC single-phase, 24 VDC
- **Overload Protection:** Electric motor cuts out at 2 Amps
- **Gear Train:** Permanently lubricated solid gearing
- **Corrosion Resistant Enclosure:** Thermally bonded powder coat finish
- **Position Indication:** Mechanical dial indication
- **LED’s:** Open and close LED position indication (green/closed, red/open)
- **De-clutchable Manual Override:** Push down override button and use provided lever to manually position in the event of no power
- **Auxiliary Limit Switches:** Dry contact switches for open and close positions
- **Enclosure:** Combination NEMA Type 4X and 6 enclosure with captive cover screws
- **Electrical Connections:** Sealed cable gland with 1.2M flying leads
- **Space Heater:** Standard equipment
- **ISO Mounting:** F03, F04, F05 X 14mm star

Sample Specifications

All Series 17 electric actuators shall have a bidirectional (reversing type) motor, with a permanently lubricated gear train. Actuator shall have a die cast aluminum housing anodized inside and outside, with an external polyester powder coat finish, rated Type 4X and 6. Each actuator shall have a manual override, visual position indication, two auxiliary limit switches, two position indicating lights and a space heater, as supplied by Asahi/America, Inc.

Engineering Data

<table>
<thead>
<tr>
<th>Torque (in/lbs.)</th>
<th>110 VAC</th>
<th>220 VAC</th>
<th>24 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>350</td>
<td>0.12</td>
<td>0.06</td>
<td>0.46</td>
</tr>
<tr>
<td>Cycle Time per 90º:</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

*Cycle times are approximate
AMP rating is considered running. Duty cycles are for ambient temperature (73º F).
Dimensions (in.)

<table>
<thead>
<tr>
<th>INCHES</th>
<th>mm</th>
<th>H</th>
<th>H1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>15</td>
<td>2.76</td>
<td>1.14</td>
</tr>
<tr>
<td>3/4</td>
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<td>3.01</td>
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<tr>
<td>1</td>
<td>25</td>
<td>3.29</td>
<td>1.54</td>
</tr>
<tr>
<td>1-1/4</td>
<td>32</td>
<td>3.64</td>
<td>1.85</td>
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<tr>
<td>1-1/2</td>
<td>40</td>
<td>3.98</td>
<td>2.17</td>
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<tr>
<td>2</td>
<td>50</td>
<td>4.43</td>
<td>2.60</td>
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</tbody>
</table>

Wiring Diagram

CUSTOMER SUPPLIES SWITCHES & WIRING

AC POWER 85-265 VAC
DC POWER 24 VDC

AUX. CONTACTS MAX 250VAC 5A

YELLOW BLUE
ORANGE SKY BLUE
BLACK WHITE
RED BROWN

CLOSE OPEN
COM COM

SMS M
Series 17 Electric Actuator on Type-57P Butterfly Valve

**Specifications**

- **Torque:** 350 in/lbs.
- **Voltage:** 85-265 VAC single-phase, 24 VDC
- **Amp Draw:** 0.45
- **Wiring:** 1.2M flying leads
- **Limit Switches:** Two (2) SPDT end of travel switches
- **Heater:** 0.5W
- **Cycle Time per 90°:** 12 seconds

**Sample Specifications**

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**Engineering Data**

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<th>220 VAC</th>
<th>24 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp Draw</td>
<td>Duty Cycle</td>
<td>Amp Draw</td>
<td>Duty Cycle</td>
</tr>
<tr>
<td>350</td>
<td>0.12</td>
<td>70%</td>
<td>0.06</td>
</tr>
</tbody>
</table>

*Cycle times are approximate
AMP rating is considered running.
Duty cycles are for ambient temperature (73°F)

www.asahi-america.com • asahi@asahi-america.com • Tel: (800) 343-3618, (781) 321-5409
Dimensions (in.)

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<th>mm</th>
<th>H</th>
<th>H1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2</td>
<td>50</td>
<td>5.51</td>
<td>2.95</td>
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<tr>
<td>2</td>
<td>63</td>
<td>5.75</td>
<td>3.25</td>
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<tr>
<td>2-1/2</td>
<td>75</td>
<td>6.18</td>
<td>3.64</td>
</tr>
<tr>
<td>3</td>
<td>90</td>
<td>6.46</td>
<td>4.15</td>
</tr>
</tbody>
</table>

Wiring Diagram

- AC Power: 85-265 VAC
- DC Power: 24 VDC
- Customer Supplied Switches & Wiring
- Aux. Contacts: Max 250 VAC 5A
- Sms: Yellow, Orange, Black, Red, Blue, Sky Blue, White, Brown, Grey, Purple, Green
- M: Close, Open, Normally Open, Normally Closed
- Ols: Normally Open, Normally Closed
- Cls: Normally Open, Normally Closed