## BELIMO®

### COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

<table>
<thead>
<tr>
<th>Belimo Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal*</th>
<th>Power</th>
<th>Feedback*</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMB24-3-P5-T</td>
<td>45 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vdc/Vdc</td>
<td>0-5 kOhm</td>
<td>——</td>
<td>95</td>
<td>70 lb-in. (8 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vac (±20%)</td>
<td>500 Ohm</td>
<td>——</td>
<td>95</td>
<td>——</td>
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<tr>
<td>LMB24-3-P10-T</td>
<td>45 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vdc/Vdc</td>
<td>0-10 kOhm</td>
<td>——</td>
<td>95</td>
<td>70 lb-in. (8 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vac (±20%)</td>
<td>500 Ohm</td>
<td>——</td>
<td>95</td>
<td>——</td>
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<tr>
<td>LMB24-3</td>
<td>45 lb-in. (5 Nm)</td>
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<td>24 Vdc/Vdc</td>
<td>——</td>
<td>——</td>
<td>95</td>
<td>MIN6105A1011</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>——</td>
<td>95</td>
<td>——</td>
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<td>LMB24-3-S</td>
<td>45 lb-in. (5 Nm)</td>
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<td>——</td>
<td>1 (0-95)</td>
<td>95</td>
<td>MIN6105A1201</td>
<td>44 lb-in. (5 Nm)</td>
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<td>——</td>
<td>2 (5, 85)</td>
<td>95</td>
</tr>
<tr>
<td>LMB24-SR</td>
<td>45 lb-in. (5 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
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<td>——</td>
<td>95</td>
<td>95</td>
<td>MN7505A2001</td>
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<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
<td>——</td>
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<tr>
<td>LMX24-SR</td>
<td>45 lb-in. (5 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>24 Vdc/Vdc</td>
<td>2-10 Vdc</td>
<td>——</td>
<td>95</td>
<td>(selectable 35-150)</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
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<tr>
<td>LMB24-SR-T</td>
<td>45 lb-in. (5 Nm)</td>
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<td>95</td>
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<td>(0) 2-10 Vdc</td>
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<tr>
<td>LMX24-SR-T</td>
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<td>——</td>
<td>95</td>
<td>(selectable 35-150)</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
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<td>24 Vac/Vdc (+20% / -15%)</td>
<td>(0) 2-10 Vdc</td>
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<td>——</td>
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<tr>
<td>LMX24-MFT</td>
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<td>24 Vdc/Vdc</td>
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<td>——</td>
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<td>(0) 2-10 Vdc</td>
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<td>——</td>
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<tr>
<td>LMX24-MFT</td>
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<td>MFT</td>
<td>24 Vdc/Vdc</td>
<td>Variable (0-10 Vdc)</td>
<td>Add-On</td>
<td>150 (selectable 35-150)</td>
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<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
<td>2 (5, 85)</td>
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<tr>
<td>LMCB24-3</td>
<td>45 lb-in. (5 Nm)</td>
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<td>24 Vdc/Vdc</td>
<td>——</td>
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<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>——</td>
<td>95</td>
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<td>——</td>
</tr>
<tr>
<td>LMCB24-3-T</td>
<td>45 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vdc/Vdc</td>
<td>——</td>
<td>35</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>——</td>
<td>95</td>
<td>——</td>
<td>——</td>
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<tr>
<td>LMX24-3</td>
<td>45 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vdc/Vdc</td>
<td>——</td>
<td>——</td>
<td>95</td>
<td>(selectable 35-150)</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>——</td>
<td>95</td>
</tr>
<tr>
<td>LMX24-3-T</td>
<td>45 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>24 Vdc/Vdc</td>
<td>——</td>
<td>——</td>
<td>95</td>
<td>(selectable 35-150)</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>——</td>
<td>95</td>
</tr>
<tr>
<td>LMX120-3</td>
<td>45 lb-in. (5 Nm)</td>
<td>Off/On, Floating</td>
<td>100-240 Vac</td>
<td>——</td>
<td>95</td>
<td>(selectable 35-150)</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>LMCB24-SR</td>
<td>45 lb-in. (5 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>24 Vdc/Vdc</td>
<td>2-10 Vdc</td>
<td>——</td>
<td>35</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
<td>——</td>
</tr>
<tr>
<td>LMCB24-SR-T</td>
<td>45 lb-in. (5 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>24 Vdc/Vdc</td>
<td>——</td>
<td>——</td>
<td>35</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
<td>——</td>
</tr>
<tr>
<td>LMX120-SR</td>
<td>45 lb-in. (5 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>100-240 Vac</td>
<td>2-10 Vdc</td>
<td>——</td>
<td>95</td>
<td>(selectable 35-150)</td>
<td>MFT</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off/On, Floating, (0) 2-10 Vdc</td>
<td>24 Vac/Vdc (+20% / -15%)</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
</tr>
</tbody>
</table>

*All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
<table>
<thead>
<tr>
<th>Belimo Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal²</th>
<th>Power</th>
<th>Feedback¹</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMX24-MFT US</td>
<td>90 lb-in. (20 Nm)</td>
<td>0-20 Vdc Phase Cut</td>
<td>24 VAC/Vdc</td>
<td>--</td>
<td>95</td>
<td>150 (selectable)</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>2-10 Vdc</td>
</tr>
<tr>
<td>LMX24-FT US</td>
<td>90 lb-in. (20 Nm)</td>
<td>0-20 Vdc Phase Cut</td>
<td>24 VAC/Vdc</td>
<td>--</td>
<td>95</td>
<td>150 (selectable)</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>2-10 Vdc</td>
</tr>
<tr>
<td>LMX24-FT</td>
<td>90 lb-in. (20 Nm)</td>
<td>0-20 Vdc Phase Cut</td>
<td>24 VAC/Vdc</td>
<td>--</td>
<td>95</td>
<td>150 (selectable)</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>2-10 Vdc</td>
</tr>
<tr>
<td>LMX24-FT</td>
<td>90 lb-in. (20 Nm)</td>
<td>0-20 Vdc Phase Cut</td>
<td>24 VAC/Vdc</td>
<td>--</td>
<td>95</td>
<td>150 (selectable)</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm)</td>
<td>--</td>
<td>2-10 Vdc</td>
</tr>
</tbody>
</table>

¹ All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
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<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF24-SR</td>
<td>180 lb-in. (20 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>100-240 Vac</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>95 (selectable 95-300)</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>LF24-MFT</td>
<td>180 lb-in. (20 Nm)</td>
<td>MFT</td>
<td>24 Vac/Vdc</td>
<td>Variable (0-10 Vdc)</td>
<td>—</td>
<td>150 (selectable 95-300)</td>
<td>MV220A0207</td>
<td>175 lb-in. (20 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
<td></td>
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<tr>
<td>LF24-MFT95</td>
<td>180 lb-in. (20 Nm)</td>
<td>0-135 Ohm</td>
<td>24 Vac/Vdc</td>
<td>Variable (0-10 Vdc)</td>
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<td>150 (selectable 95-300)</td>
<td>MV220A0207*</td>
<td>175 lb-in. (20 Nm)</td>
<td>0-135 OHM</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
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<tr>
<td>LF24-PC</td>
<td>180 lb-in. (20 Nm)</td>
<td>0-20 Vac Phase Cut</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150 (selectable 95-300)</td>
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<tr>
<td>GMX24-3</td>
<td>360 lb-in. (40 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>150</td>
<td>Mn6134A1003</td>
<td>300 lb-in. (34 Nm)</td>
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<td>24 Vac (±15%), 24 Vdc</td>
<td>—</td>
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<tr>
<td>GMX24-3</td>
<td>360 lb-in. (40 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
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<td>150</td>
<td>Mn6134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vdc</td>
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<tr>
<td>GMX120-SR</td>
<td>360 lb-in. (40 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
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<td>Mn234A2008</td>
<td>300 lb-in. (34 Nm)</td>
<td>0-4-20 mA</td>
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<td>(0) 2-10 Vdc</td>
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<tr>
<td>GMX24-SR</td>
<td>360 lb-in. (40 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>Mn234A2008</td>
<td>300 lb-in. (34 Nm)</td>
<td>0-4-20 mA</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
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<td>GMX24-MFT</td>
<td>360 lb-in. (40 Nm)</td>
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<td>24 Vac/Vdc</td>
<td>Variable (0-10 Vdc)</td>
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<td>(0) 2-10 Vdc, (0) 4-20 mA</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
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<td>GMX24-MFT95</td>
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<td>0-135 Ohm</td>
<td>24 Vac/Vdc</td>
<td>Variable (0-10 Vdc)</td>
<td>—</td>
<td>150 (selectable 70-300)</td>
<td>MV234A2008*</td>
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<td>24 Vac (±20%), 24 Vdc</td>
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<td>GMX24-PC</td>
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<td>2-10 Vdc</td>
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<td>LF24 US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>24 Vac/Vdc</td>
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<td>—</td>
<td>40-75</td>
<td>Ms8105A1008</td>
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<td>24 Vac (±20%), 24 Vdc</td>
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<td>LF24-S US</td>
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<td>24 Vac/Vdc</td>
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<td>—</td>
<td>1 (adj 0-95)</td>
<td>Ms8110A1206</td>
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<td>LF120 US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>Ms4105A1002</td>
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<td>On/Off</td>
<td>100-250 Vac</td>
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<td>45</td>
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<td>LF120-S US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>120 Vac</td>
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<td>—</td>
<td>1 (adj 0-95)</td>
<td>Ms4110A1200</td>
<td>88 lb-in. (10 Nm)</td>
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<td>LF230 US</td>
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<td>—</td>
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<td>Ms4105A1002</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off</td>
<td>100-250 Vac</td>
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<td>LF230-S US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>230 Vac</td>
<td>—</td>
<td>—</td>
<td>1 (adj 0-95)</td>
<td>Ms4110A1200</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>2 (Adjustable)</td>
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</tr>
<tr>
<td>LF24-3 US</td>
<td>35 lb-in. (5 Nm)</td>
<td>Floating</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>150</td>
<td>Ms7505A2008</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>—</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>LF24-3-S US</td>
<td>35 lb-in. (5 Nm)</td>
<td>Floating</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>1 (adj 0-95)</td>
<td>Ms7510A2206</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>2 (Adjustable)</td>
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</tr>
<tr>
<td>LFC24-3-R US</td>
<td>35 lb-in. (5 Nm)</td>
<td>Floating</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>90</td>
<td>Ms7505A2008</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>—</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>LFC24-3-S US</td>
<td>35 lb-in. (5 Nm)</td>
<td>Floating</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>1 (adj 0-95)</td>
<td>Ms7510A2206</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>2 (Adjustable)</td>
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<tr>
<td>LF24-5R US</td>
<td>35 lb-in. (5 Nm)</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>Ms7505A2008</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>90</td>
<td></td>
</tr>
</tbody>
</table>

* All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
## COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

<table>
<thead>
<tr>
<th>Belimo Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF24-SR-S US</td>
<td>35 lb-in. (5 Nm)</td>
<td>2-10 Vdc, 4-20 mA</td>
<td>VAC/VDC</td>
<td>2-10 Vdc</td>
<td>1 (adj 0-95)</td>
<td>150</td>
<td>MS7510A2206</td>
<td>88 lb-in. (10 Nm)</td>
<td>Off, Floating, (0)</td>
<td>2-10 Vdc</td>
<td>(0)</td>
<td>2-10 Vdc</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>LF24-SR-E US</td>
<td>35 lb-in. (5 Nm)</td>
<td>2-10 Vdc, built-in minimum position</td>
<td>VAC/VDC</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>MS7505A2008 + SW2</td>
<td>44 lb-in. (5 Nm)</td>
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<td>2-10 Vdc</td>
<td>2 (Adjustable)</td>
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<td>LF24-ECON-R03 US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>MS7505A2008</td>
<td>44 lb-in. (5 Nm)</td>
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<td>2-10 Vdc</td>
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<td>LF24-ECON-R10 US</td>
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<td>0-3 kOhm, type 7 thermistor</td>
<td>VAC/VDC</td>
<td>2-10 Vdc</td>
<td>—</td>
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<td>MS7505A2008</td>
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<td>(0)</td>
<td>2-10 Vdc</td>
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<tr>
<td>LF24-MFT US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>VAC/VDC</td>
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<td>150</td>
<td>MS7505A2008</td>
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<td>Off, Floating, (0)</td>
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<td>(0)</td>
<td>2-10 Vdc</td>
<td>2 (7, 85)</td>
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<tr>
<td>LF24-MFT-S US</td>
<td>35 lb-in. (5 Nm)</td>
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<td>VAC/VDC</td>
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<td>2-10 Vdc</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>LF24-MFT-20 US</td>
<td>35 lb-in. (5 Nm)</td>
<td>MFT</td>
<td>VAC/VDC</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>MS7505A2008</td>
<td>44 lb-in. (5 Nm)</td>
<td>Off, Floating, (0)</td>
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<td>(0)</td>
<td>2-10 Vdc</td>
<td>2 (Adjustable)</td>
</tr>
<tr>
<td>LF24-MFT-20-S US</td>
<td>35 lb-in. (5 Nm)</td>
<td>MFT</td>
<td>VAC/VDC</td>
<td>2-10 Vdc</td>
<td>1 (adj 0-95)</td>
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<td>MS7510H2209</td>
<td>88 lb-in. (10 Nm)</td>
<td>Off, Floating, (0)</td>
<td>2-10 Vdc</td>
<td>(0)</td>
<td>2-10 Vdc</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>NF24 US</td>
<td>60 lb-in. (7 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>—</td>
<td>—</td>
<td>&lt; 75</td>
<td>MS8110A1008</td>
<td>88 lb-in. (10 Nm)</td>
<td>Off</td>
<td>24 Vac</td>
<td>±20%</td>
<td>24 Vdc</td>
<td>—</td>
</tr>
<tr>
<td>NF24-S US</td>
<td>60 lb-in. (7 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>—</td>
<td>1 (adj 5-85)</td>
<td>&lt; 75</td>
<td>MS8110A1208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>24 Vac</td>
<td>±20%</td>
<td>24 Vdc</td>
<td>—</td>
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<tr>
<td>NF24-32 US</td>
<td>60 lb-in. (7 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>2-5, and adj 25-85</td>
<td>&lt; 75</td>
<td>MS8110A1208</td>
<td>88 lb-in. (10 Nm)</td>
<td>Off</td>
<td>24 Vac</td>
<td>±20%</td>
<td>24 Vdc</td>
<td>—</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>NF120 US</td>
<td>60 lb-in. (7 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>—</td>
<td>—</td>
<td>&lt; 75</td>
<td>MS4110A102</td>
<td>88 lb-in. (10 Nm)</td>
<td>Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>NF120-S US</td>
<td>60 lb-in. (7 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>2-5, and adj 5-85</td>
<td>&lt; 75</td>
<td>MS4110A120</td>
<td>88 lb-in. (10 Nm)</td>
<td>Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>2 (7, 85)</td>
<td>45</td>
</tr>
<tr>
<td>AF24 US</td>
<td>133 lb-in. (15 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>—</td>
<td>—</td>
<td>150</td>
<td>MS8120A1007</td>
<td>175 lb-in. (20 Nm)</td>
<td>Off</td>
<td>24 Vac</td>
<td>±20%</td>
<td>24 Vdc</td>
<td>—</td>
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<tr>
<td>AF24-S US</td>
<td>133 lb-in. (15 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>—</td>
<td>2 (5, and adj 25-85)</td>
<td>150</td>
<td>MS8120A120</td>
<td>175 lb-in. (20 Nm)</td>
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<td>24 Vac</td>
<td>±20%</td>
<td>24 Vdc</td>
<td>—</td>
</tr>
<tr>
<td>AF120 US</td>
<td>133 lb-in. (15 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>120 Vac</td>
<td>—</td>
<td>150</td>
<td>MS4120A1001</td>
<td>175 lb-in. (20 Nm)</td>
<td>Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>AF120-S US</td>
<td>133 lb-in. (15 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>2 (5, and adj 25-85)</td>
<td>150</td>
<td>MS4120A120</td>
<td>175 lb-in. (20 Nm)</td>
<td>Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>2 (7, 85)</td>
<td>45</td>
</tr>
<tr>
<td>AF230 US</td>
<td>133 lb-in. (15 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>230 Vac</td>
<td>—</td>
<td>150</td>
<td>MS4120A1001</td>
<td>175 lb-in. (20 Nm)</td>
<td>Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>2 (7, 85)</td>
</tr>
<tr>
<td>AF230-S US</td>
<td>133 lb-in. (15 Nm)</td>
<td>On/Off</td>
<td>VAC/VDC</td>
<td>2 (5, and adj 25-85)</td>
<td>150</td>
<td>MS4120A120</td>
<td>175 lb-in. (20 Nm)</td>
<td>Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>2 (7, 85)</td>
<td>45</td>
</tr>
</tbody>
</table>

*All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.*
<table>
<thead>
<tr>
<th>Belimo Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF24-SR US</td>
<td>133 lb-in.</td>
<td>2-10 Vdc</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>MS7520A2007</td>
<td>175 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>AF24-MFT US</td>
<td>133 lb-in.</td>
<td>MFT</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>MS7520A2205</td>
<td>175 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>AF24-MFT-S US</td>
<td>133 lb-in.</td>
<td>2-10 Vdc (5. and adj 25-85)</td>
<td>24 Vac/Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>150</td>
<td>MS7520A2208</td>
<td>175 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
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<td>—</td>
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<tr>
<td>AF24-MFT95 US</td>
<td>133 lb-in.</td>
<td>0-135 Ohm</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>150</td>
<td>MS7520A2007 + Q7002B1009</td>
<td>175 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>TF24 US</td>
<td>18 lb-in.</td>
<td>On/Off</td>
<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>&lt;75</td>
<td>MS8105A1008</td>
<td>44 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>45</td>
</tr>
<tr>
<td>TF24-S US</td>
<td>18 lb-in.</td>
<td>On/Off</td>
<td>24 Vac/Vdc</td>
<td>1 (adj 0-95)</td>
<td>—</td>
<td>&lt;75</td>
<td>MS8105A1008+ SW2</td>
<td>44 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>(Adjustable)</td>
<td>2</td>
<td>45</td>
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<tr>
<td>TF120 US</td>
<td>18 lb-in.</td>
<td>On/Off</td>
<td>100-240 Vac</td>
<td>—</td>
<td>—</td>
<td>&lt;75</td>
<td>MS4105A1002</td>
<td>44 lb-in.</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>(Adjustable)</td>
<td>45</td>
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<tr>
<td>TF120-S US</td>
<td>18 lb-in.</td>
<td>On/Off</td>
<td>100-240 Vac</td>
<td>1 (adj 0-95)</td>
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<td>MS4105A1002+ SW2</td>
<td>44 lb-in.</td>
<td>100-250 Vac</td>
<td>—</td>
<td>(Adjustable)</td>
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<td>45</td>
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<tr>
<td>TF24-SR US</td>
<td>18 lb-in.</td>
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<td>24 Vac/Vdc</td>
<td>—</td>
<td>—</td>
<td>95</td>
<td>MS7505A2008</td>
<td>44 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>—</td>
<td>(Adjustable)</td>
<td>90</td>
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<tr>
<td>TF24-SR-S US</td>
<td>18 lb-in.</td>
<td>2-10 Vdc (4-20 mA)</td>
<td>24 Vac/Vdc</td>
<td>1 (adj 0-95)</td>
<td>—</td>
<td>95</td>
<td>MS7505A2008+ SW2</td>
<td>44 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>(Adjustable)</td>
<td>2</td>
<td>90</td>
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<td>TF24-3 US</td>
<td>18 lb-in.</td>
<td>Floating</td>
<td>24 Vac/Vdc</td>
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<td>—</td>
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<td>MS7505A2008</td>
<td>44 lb-in.</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>—</td>
<td>(Adjustable)</td>
<td>90</td>
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<tr>
<td>TF24-3-S US</td>
<td>18 lb-in.</td>
<td>Floating</td>
<td>24 Vac/Vdc</td>
<td>1 (adj 0-95)</td>
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<td>95</td>
<td>MS7505A2008+ SW2</td>
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<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>(Adjustable)</td>
<td>2</td>
<td>90</td>
</tr>
</tbody>
</table>

* All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
<table>
<thead>
<tr>
<th>Johnson Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
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</thead>
<tbody>
<tr>
<td>M9104-AGA-2</td>
<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>90 / 108 (at 60 / 50 Hz)</td>
<td>90 / 108 (at 60 / 50 Hz)</td>
<td>M8102A1011</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>+20 / -15%</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>M9104-AGS-2</td>
<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>90 / 108 (at 60 / 50 Hz)</td>
<td>90 / 108 (at 60 / 50 Hz)</td>
<td>M8102A1011</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>+20 / -15%</td>
<td>—</td>
<td>—</td>
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<tr>
<td>M9104-AGA-2N</td>
<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, 396, or 792 (at 50 Hz)</td>
<td>72, 108, 144, 396, or 792 (at 50 Hz)</td>
<td>M8102A101</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
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<tr>
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<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, 396, or 792 (at 50 Hz)</td>
<td>72, 108, 144, 396, or 792 (at 50 Hz)</td>
<td>M8102A101</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
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<tr>
<td>M9104-AGA-2C</td>
<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, 396, or 792 (at 50 Hz)</td>
<td>72, 108, 144, 396, or 792 (at 50 Hz)</td>
<td>M8102A101</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>+20 / -15%</td>
<td>—</td>
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<tr>
<td>M9104-AGA-2N</td>
<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, 396, or 792 (at 50 Hz)</td>
<td>72, 108, 144, 396, or 792 (at 50 Hz)</td>
<td>M8102A101</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>+20 / -15%</td>
<td>—</td>
<td>—</td>
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<tr>
<td>M9104-AGC-2</td>
<td>35 lb-in.</td>
<td>Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, 396, or 792 (at 50 Hz)</td>
<td>72, 108, 144, 396, or 792 (at 50 Hz)</td>
<td>M8102A101</td>
<td>44 lb-in. (5 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac/Vdc</td>
<td>+20 / -15%</td>
<td>—</td>
<td>—</td>
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*All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.*
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<th>Power</th>
<th>Feedback</th>
<th>Switche s</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal(^a)</th>
<th>Power</th>
<th>Feedback(^b)</th>
<th>Switches</th>
<th>Timin g (sec)</th>
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<tbody>
<tr>
<td>M9108-HGA-2</td>
<td>70 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
<td>2 to 10 Vdc for 90 lb-in.</td>
<td>—</td>
<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
<td>95</td>
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</tr>
<tr>
<td>M9108-HGC-2</td>
<td>70 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
<td>2 to 10 Vdc for 90 lb-in.</td>
<td>—</td>
<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
<td>95</td>
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<tr>
<td>M9108-JGA-2</td>
<td>70 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
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<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
<td>95</td>
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<tr>
<td>M9108-JGC-2</td>
<td>70 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
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<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9109-AGA-2</td>
<td>80 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
<td>2 to 10 Vdc for 90 lb-in.</td>
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<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9109-AGC-2</td>
<td>80 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
<td>2 to 10 Vdc for 90 lb-in.</td>
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<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9109-GGA-2</td>
<td>80 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
<td>2 to 10 Vdc for 90 lb-in.</td>
<td>—</td>
<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9109-GGC-2</td>
<td>80 lb-in. (9 Nm)</td>
<td>0-20 Vdc</td>
<td>0 to 30 Vac at 50/60 Hz</td>
<td>2 to 10 Vdc for 90 lb-in.</td>
<td>—</td>
<td>25-50 for 0-70 lb-in.</td>
<td>68 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9116-AGA-2</td>
<td>140 lb-in. (16 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>6-10 Vdc</td>
<td>—</td>
<td>70-115 for 0-140 lb-in.</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off</td>
<td>—</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9116-AHC-2</td>
<td>140 lb-in. (16 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>6-10 Vdc</td>
<td>—</td>
<td>70-115 for 0-140 lb-in.</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off</td>
<td>—</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9116-AJC-2</td>
<td>140 lb-in. (16 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>6-10 Vdc</td>
<td>—</td>
<td>70-115 for 0-140 lb-in.</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off</td>
<td>—</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9116-GJA-2</td>
<td>140 lb-in. (16 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>6-10 Vdc</td>
<td>—</td>
<td>70-115 for 0-140 lb-in.</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off</td>
<td>—</td>
<td>—</td>
<td>2 (5, 85)</td>
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<tr>
<td>M9116-GKC-2</td>
<td>140 lb-in. (16 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>6-10 Vdc</td>
<td>—</td>
<td>70-115 for 0-140 lb-in.</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off</td>
<td>—</td>
<td>—</td>
<td>2 (5, 85)</td>
<td>95</td>
<td></td>
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\(^a\) All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
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<th>Power</th>
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<th>Switches</th>
<th>Timing (sec)</th>
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</thead>
<tbody>
<tr>
<td>M9124-AGA-2</td>
<td>210 lb-in. (24 Nm) &amp; 420 lb-in. (48 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>—</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN9134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vac</td>
<td>—</td>
<td>—</td>
<td>95</td>
</tr>
<tr>
<td>M9124-AGC-2</td>
<td>210 lb-in. (24 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>2-10</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN9134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vac</td>
<td>—</td>
<td>2</td>
<td>(Adjustable) 95</td>
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<tr>
<td>M9124-AGD-2</td>
<td>210 lb-in. (24 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>0-1 35 Ohm</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN9134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vac</td>
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<tr>
<td>M9124-AGE-2</td>
<td>210 lb-in. (24 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>0-1 kOhm</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN9134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vac</td>
<td>—</td>
<td>—</td>
<td>95</td>
</tr>
<tr>
<td>M9124-GGA-2</td>
<td>210 lb-in. (24 Nm) &amp; 420 lb-in. (48 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>2-10 Vdc for 90 (1 mA at 10 Vdc)</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN7234A2008</td>
<td>300 lb-in. (34 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA</td>
<td>24 Vac (±20%), 24 Vac</td>
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<td>(0) 2-10 Vdc</td>
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<tr>
<td>M9124-GGC-2</td>
<td>210 lb-in. (24 Nm) &amp; 420 lb-in. (48 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>2-10 Vdc for 90 (1 mA at 10 Vdc)</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN7234A2008</td>
<td>300 lb-in. (34 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA</td>
<td>24 Vac (±20%), 24 Vac</td>
<td>—</td>
<td>(0) 2-10 Vdc</td>
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</tr>
<tr>
<td>M9124-HGA-2</td>
<td>210 lb-in. (24 Nm) &amp; 420 lb-in. (48 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>2-10 Vdc for 90 (1 mA at 10 Vdc)</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN7234A2008</td>
<td>300 lb-in. (34 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA</td>
<td>24 Vac (±20%), 24 Vac</td>
<td>—</td>
<td>(0) 2-10 Vdc</td>
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</tr>
<tr>
<td>M9124-HGC-2</td>
<td>210 lb-in. (24 Nm) &amp; 420 lb-in. (48 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>2-10 Vdc for 90 (1 mA at 10 Vdc)</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN7234A2008</td>
<td>300 lb-in. (34 Nm)</td>
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<td>24 Vac (±20%), 24 Vac</td>
<td>—</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
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<tr>
<td>M9124-JGA-2</td>
<td>210 lb-in. (24 Nm)</td>
<td>110-10 Ohms, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>0-10 Vdc for 90 (1 mA at 10 Vdc)</td>
<td>—</td>
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<td>110-10 Ohms, Reversible</td>
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<tr>
<td>M9132-AGA-2</td>
<td>280 lb-in. (32 Nm)</td>
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<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>—</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN9134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
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<tr>
<td>M9132-AGC-2</td>
<td>280 lb-in. (32 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
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<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN9134A1003</td>
<td>300 lb-in. (34 Nm)</td>
<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vac</td>
<td>—</td>
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<td>(Adjustable) 95</td>
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<tr>
<td>M9132-AGE-2</td>
<td>280 lb-in. (32 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>0-1 kOhm</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
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<td>On/Off, Floating</td>
<td>24 Vac (±15%), 24 Vac</td>
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<tr>
<td>M9132-GGA-2</td>
<td>280 lb-in. (32 Nm) &amp; 560 lb-in. (64 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>—</td>
<td>2-10 Vdc for 90 (1 mA at 10 Vdc)</td>
<td>115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.</td>
<td>MN7234A2008</td>
<td>300 lb-in. (34 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA</td>
<td>24 Vac (±20%), 24 Vac</td>
<td>—</td>
<td>(0) 2-10 Vdc</td>
<td>95</td>
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<th>Control Signala</th>
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<th>Switches</th>
<th>Timing (sec)</th>
<th>Timin g (sec)</th>
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<td>M9132-GGC-2</td>
<td>280 lb-in.</td>
<td>(0) 2-10 Vdc, (0) 4 to 20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>2-10 Vdc for 90 11 mA at 10 Vdc</td>
<td>2</td>
<td>115-205, 20-40 (34 Nm)</td>
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<td>M9216-BAA-2 2S 53 lb-in.</td>
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<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>2</td>
<td>(Adjustable)</td>
<td>95</td>
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<tr>
<td>M9206-BGA-2S</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off</td>
<td>102 to 132 Vac at 60 Hz</td>
<td>-</td>
<td>-</td>
<td>10-40 for 0-53 lb-in.</td>
<td>Spring return &lt; 70</td>
<td>MS8110A1002</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
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<td>-</td>
</tr>
<tr>
<td>M9206-BGB-2S</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>10-40 for 0-53 lb-in.</td>
<td>Spring return &lt; 70</td>
<td>MS8110A1002</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M9206-BAA-2S</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>10-40 for 0-53 lb-in.</td>
<td>Spring return &lt; 70</td>
<td>MS8110A1002</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M9206-AGA-2S</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>10-40 for 0-63 lb-in.</td>
<td>Spring return &lt; 70</td>
<td>MS8110A1206</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M9206-AGC-2</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>90</td>
<td>MS7510A2208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M9206-AGC-2MP</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>90</td>
<td>MS7510A2208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M9206-GCA-2</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>90</td>
<td>MS7510A2208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
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<tr>
<td>M9206-GCA-2MP</td>
<td>53 lb-in. (6 Nm)</td>
<td>On/Off, Floating</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>90</td>
<td>MS7510A2208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M9206-GGB-2</td>
<td>53 lb-in. (6 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>90</td>
<td>MS7510A2208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>M9206-GGB-2MP</td>
<td>53 lb-in. (6 Nm)</td>
<td>(0) 2-10 Vdc, (0) 4-20 mA, Reversible</td>
<td>20 to 30 Vac at 50/60 Hz</td>
<td>-</td>
<td>-</td>
<td>90</td>
<td>MS7510A2208</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac</td>
<td>(±20%), 24 Vdc</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>M9206-BAC-2</td>
<td>140 lb-in. (16 Nm) &amp; 280 lb-in. (32 Nm)</td>
<td>On/Off</td>
<td>120 Vac</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
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</tbody>
</table>

a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
<table>
<thead>
<tr>
<th>Johnson Model</th>
<th>Torque (lb.in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS216-BGA-2</td>
<td>140 lb-in.</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>(16 Nm) &amp; 280 lb-in.</td>
<td>(32 Nm)</td>
<td></td>
<td></td>
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<td></td>
<td>(0-16 Nm), 90 at 50% load, Spring return &lt; 15.</td>
<td>MS8120A1007</td>
<td></td>
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<tr>
<td>MS216-BGC-2</td>
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<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>45</td>
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<tr>
<td></td>
<td>(16 Nm) &amp; 280 lb-in.</td>
<td>(32 Nm)</td>
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<td>(0-16 Nm), 90 at 50% load, Spring return &lt; 15.</td>
<td>MS8120A1205</td>
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<tr>
<td>MS216-AGA-2</td>
<td>140 lb-in.</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>(16 Nm)</td>
<td>Floating</td>
<td>0-135 Ohms</td>
<td>—</td>
<td></td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-AGC-2</td>
<td>140 lb-in.</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-AGD-2</td>
<td>140 lb-in.</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-AGE-2</td>
<td>140 lb-in.</td>
<td>On/Off</td>
<td>20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-GGA-2</td>
<td>140 lb-in.</td>
<td>Reversible</td>
<td>0-10 Vdc, 0-20 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-GGC-2</td>
<td>140 lb-in.</td>
<td>Reversible</td>
<td>0-10 Vdc, 0-20 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-HGA-2</td>
<td>140 lb-in.</td>
<td>Reversible</td>
<td>0-10 Vdc, 0-20 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-HGC-2</td>
<td>140 lb-in.</td>
<td>Reversible</td>
<td>0-10 Vdc, 0-20 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS216-JGA-2</td>
<td>140 lb-in.</td>
<td>Reversible</td>
<td>0-10 Vdc, 0-20 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
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<tr>
<td>MS216-JGC-2</td>
<td>140 lb-in.</td>
<td>Reversible</td>
<td>0-10 Vdc, 0-20 mA</td>
<td>—</td>
<td>—</td>
<td>70-130</td>
<td>0-140 lb-in.</td>
<td>0-10 Vdc</td>
<td>Floating</td>
<td>0-10 Vdc</td>
<td>2 (7, 85)</td>
<td>—</td>
<td>90</td>
</tr>
</tbody>
</table>

*All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.*
<table>
<thead>
<tr>
<th>Invensys Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA40-7043</td>
<td>35 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 50</td>
<td>MS8105A1008</td>
<td>44 b-in. (5 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>—</td>
<td>45</td>
</tr>
<tr>
<td>MA40-7043-501</td>
<td>35 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 130</td>
<td>MS7505A2008</td>
<td>44 b-in. (5 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
<td></td>
</tr>
<tr>
<td>MF40-7043</td>
<td>35 b-in.</td>
<td>Floating</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 130</td>
<td>MS7505A2008</td>
<td>44 b-in. (5 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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<tr>
<td>MS40-7043</td>
<td>35 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 130</td>
<td>MS7505A2008</td>
<td>44 b-in. (5 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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<td>MS40-7043-501</td>
<td>35 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 130</td>
<td>MS7505A2008</td>
<td>44 b-in. (5 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
<td></td>
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<tr>
<td>MA41-7073</td>
<td>60 lb-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 130</td>
<td>MS8110A1008</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (7, 85)</td>
<td></td>
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<tr>
<td>MA41-7073-502</td>
<td>60 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
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<td>MS8110A1206</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (7, 85)</td>
<td></td>
</tr>
<tr>
<td>MF41-7073</td>
<td>60 lb-in.</td>
<td>Floating</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 195</td>
<td>MS7510A2008</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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<tr>
<td>MF41-7073-502</td>
<td>60 b-in.</td>
<td>Floating</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 195</td>
<td>MS7510A2206</td>
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<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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<td>60 lb-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 195</td>
<td>MS7510A2008</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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<tr>
<td>MS41-7073-502</td>
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<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 195</td>
<td>MS7510A2206</td>
<td>88 lb-in. (10 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
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<td>2 (Adjustable)</td>
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<tr>
<td>MA41-7153</td>
<td>133 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 190</td>
<td>MS8120A1007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (7, 85)</td>
<td></td>
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<tr>
<td>MA41-7153-502</td>
<td>133 b-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
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<td>&lt; 190</td>
<td>MS8120A1205</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (7, 85)</td>
<td></td>
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<tr>
<td>MF41-7153</td>
<td>133 b-in.</td>
<td>Floating</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 190</td>
<td>MS7520A2007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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<tr>
<td>MF41-7153-502</td>
<td>133 b-in.</td>
<td>Floating</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 190</td>
<td>MS7520A2205</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
<td></td>
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<tr>
<td>MS41-7153</td>
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<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 190</td>
<td>MS7520A2007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
<td></td>
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<tr>
<td>MS41-7153-502</td>
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<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 190</td>
<td>MS7520A2205</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (Adjustable)</td>
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</tr>
<tr>
<td>MA40-7170</td>
<td>150 lb-in.</td>
<td>On/Off</td>
<td>120 Vac ±10%</td>
<td>-</td>
<td>-</td>
<td>&lt; 145</td>
<td>MS4120A1001</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off</td>
<td>100-250 Vac</td>
<td>—</td>
<td>—</td>
<td>45</td>
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<tr>
<td>MA40-7173</td>
<td>150 lb-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>-</td>
<td>-</td>
<td>&lt; 145</td>
<td>MS8120A1007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>—</td>
<td>45</td>
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<tr>
<td>MF40-7173</td>
<td>150 lb-in.</td>
<td>Floating</td>
<td>24 Vac ±10%</td>
<td>-</td>
<td>-</td>
<td>&lt; 145</td>
<td>MS7520A2007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (10 Vdc)</td>
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<td>MS40-7170</td>
<td>150 lb-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>-</td>
<td>-</td>
<td>&lt; 145</td>
<td>MS7520A2007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
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<td>2 (10 Vdc)</td>
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<td>MS40-7173</td>
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<td>-</td>
<td>&lt; 145</td>
<td>MS7520A2007</td>
<td>175 b-in. (20 Nm)</td>
<td>On/Off Floating (0) 2-10 Vdc</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>2 (10 Vdc)</td>
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<td>MA4D-7033-100</td>
<td>30 lb-in.</td>
<td>On/Off</td>
<td>24 Vac ±10%</td>
<td>-</td>
<td>-</td>
<td>&lt; 56</td>
<td>MS8105A1008</td>
<td>44 b-in. (5 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20%, 24 Vdc</td>
<td>—</td>
<td>—</td>
<td>45</td>
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</table>

*All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
<table>
<thead>
<tr>
<th>Invensys Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
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<tbody>
<tr>
<td>MA4D-8033-100</td>
<td>0.44 lb-in. (3.4 Nm)</td>
<td>On/Off</td>
<td>24 Vac ±20% 20-30 Vdc</td>
<td>—</td>
<td>—</td>
<td>&lt; 56</td>
<td>MS8105A1008</td>
<td>0.44 lb-in. (5 Nm)</td>
<td>On/Off</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>—</td>
<td>—</td>
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<td>MF4D-7033-100</td>
<td>0.44 lb-in. (3.4 Nm)</td>
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<td>24 Vac ±20% 20-30 Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
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<td>MS7505A2008</td>
<td>0.44 lb-in. (5 Nm)</td>
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<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
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<td>90</td>
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<td>24 Vac ±20% 20-30 Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>&lt; 85</td>
<td>MS7505A2008</td>
<td>0.44 lb-in. (5 Nm)</td>
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<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
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<td>M54D-7033-100</td>
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<td>24 Vac ±20% 20-30 Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
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<td>0.44 lb-in. (5 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
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<td>M54D-8033-150</td>
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<td>(0) 2-10 Vdc, 4-20 mA</td>
<td>24 Vac ±20% 20-30 Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
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<td>MS7505A2008</td>
<td>0.44 lb-in. (5 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>90</td>
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<td>M54D-8033-160</td>
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<td>24 Vac ±20% 22-30 Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>&lt; 85</td>
<td>MS7505A2008</td>
<td>0.44 lb-in. (5 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>90</td>
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<tr>
<td>M54D-8033-160</td>
<td>0.30 lb-in. (3.4 Nm)</td>
<td>(0) 2-10 Vdc, 4-20 mA</td>
<td>24 Vac ±20% 22-30 Vdc</td>
<td>2-10 Vdc</td>
<td>—</td>
<td>&lt; 85</td>
<td>MS7505A2008</td>
<td>0.44 lb-in. (5 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>90</td>
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<tr>
<td>MS50-E2301</td>
<td>150 lb-in. (17 Nm)</td>
<td>1.5 Vdc 4-20 mA</td>
<td>24 Vac ±10%</td>
<td>—</td>
<td>—</td>
<td>145</td>
<td>MS7520A2007</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS50-E2301</td>
<td>150 lb-in. (17 Nm)</td>
<td>1.5 Vdc 4-20 mA</td>
<td>120 Vac ±10%</td>
<td>—</td>
<td>—</td>
<td>145</td>
<td>MS7520A2007</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>MS50-E2301</td>
<td>150 lb-in. (17 Nm)</td>
<td>1.5 Vdc 4-20 mA</td>
<td>240 Vac ±10%</td>
<td>—</td>
<td>—</td>
<td>145</td>
<td>MS7520A2007</td>
<td>175 lb-in. (20 Nm)</td>
<td>On/Off</td>
<td>24 Vac (±20%), 24 Vdc</td>
<td>(0) 2-10 Vdc</td>
<td>—</td>
<td>90</td>
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</tbody>
</table>

MF4D-6043 | 0.30 lb-in. (3.4 Nm) | Floating | 24 Vac ±20% 15% | — | — | < 90 | MN8105A1001 | 0.44 lb-in. (5 Nm) | On/Off, Floating | 24 Vac Vdc (20% / 15%) | — | — | 95 |

MF4D-6043-510 | 0.30 lb-in. (3.4 Nm) | Floating | 24 Vac ±20% 15% | 0-10 Vdc | — | < 90 | — | — | — | — | — | — | 95 |

MF4D-6043-502 | 0.30 lb-in. (3.4 Nm) | Floating | 24 Vac ±20% 15% | — | 2 | < 90 | MN8105A1001 | 0.44 lb-in. (5 Nm) | On/Off, Floating | 24 Vac Vdc (20% / 15%) | — | 2 (7.85) | 95 |

MS4D-6043 | 0.30 lb-in. (3.4 Nm) | 0-10 Vdc | 24 Vac ±20% 15% | 0-10 Vdc | — | < 90 | MN7505A2001 | 0.44 lb-in. (5 Nm) | On/Off, Floating | 24 Vac Vdc (20% / 15%) | (0) 2-10 Vdc | — | 95 |

MS4D-6043-520 | 0.30 lb-in. (3.4 Nm) | 0-10 Vdc (adjustable) | 24 Vac ±20% 15% | 0-10 Vdc | — | < 90 | MN7505A2001 | 0.44 lb-in. (5 Nm) | On/Off, Floating, (0) 2-10 Vdc | 24 Vac Vdc (20% / 15%) | (0) 2-10 Vdc | — | 95 |

MS4D-6043-522 | 0.30 lb-in. (3.4 Nm) | 0-10 Vdc (adjustable) | 24 Vac ±20% 15% | 0-10 Vdc | 2 | < 90 | MN7505A2209 | 0.44 lb-in. (5 Nm) | On/Off, Floating, (0) 2-10 Vdc | 24 Vac Vdc (20% / 15%) | (0) 2-10 Vdc | 2 (5.85) | 95 |

M54D-6043-502 | 0.30 lb-in. (3.4 Nm) | 0-10 Vdc | 24 Vac ±20% 15% | 0-10 Vdc | 2 | < 90 | MN7505A2209 | 0.44 lb-in. (5 Nm) | On/Off, Floating, (0) 2-10 Vdc | 24 Vac Vdc (20% / 15%) | (0) 2-10 Vdc | 2 (5.85) | 95 |

MF41-6083 | 0.70 lb-in. (8 Nm) | Floating | 24 Vac ±20% 15% | — | — | < 125 | MN6105A1003 | 0.44 lb-in. (10 Nm) | 20 mA | 24 Vac Vdc (20% / 15%) | — | — | 95 |

MF41-6083-510 | 0.70 lb-in. (8 Nm) | 0-10 Vdc (adjustable) | 24 Vac ±20% 15% | 0-10 Vdc | — | < 125 | — | — | — | — | — | — | 95 |

MF41-6083-502 | 0.70 lb-in. (8 Nm) | Floating | 24 Vac ±20% 15% | — | 2 | < 125 | MN6105A1201 | 0.44 lb-in. (10 Nm) | 20 mA | 24 Vac Vdc (20% / 15%) | — | 2 (5.85) | 95 |

* All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
<table>
<thead>
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<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
</tr>
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<tr>
<td>MS41-6083</td>
<td>70 lb-in. (8 Nm)</td>
<td>0-10 Vdc</td>
<td>24 Vac ±20%-15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>&lt; 125</td>
<td>MN510A2001</td>
<td>88 lb-in. (10 Nm) On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
<td>95</td>
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<tr>
<td>MS41-6083-520</td>
<td>70 lb-in. (8 Nm)</td>
<td>0-10 Vdc (adjustable)</td>
<td>24 Vac ±20%-15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>&lt; 125</td>
<td>MN510A2001</td>
<td>88 lb-in. (10 Nm) On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
<td>95</td>
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<td>70 lb-in. (8 Nm)</td>
<td>0-10 Vdc</td>
<td>24 Vac ±20%-15%</td>
<td>0-10 Vdc</td>
<td>2</td>
<td>&lt; 125</td>
<td>MN510A2209</td>
<td>88 lb-in. (10 Nm) On/Off, Floating, (0) 2-10 Vdc</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
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<td>2</td>
<td>&lt; 125</td>
<td>MN510A2209</td>
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<td>24 Vacs 20 / -15%</td>
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<td>-</td>
<td>2 (5, 85)</td>
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<td>MF4-6153</td>
<td>133 lb-in. (15 Nm)</td>
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<td>24 Vac ±20%-15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>&lt; 125</td>
<td>MN620A1002</td>
<td>175 lb-in. (20 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
<td>95</td>
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<tr>
<td>MS41-6153-502</td>
<td>133 lb-in. (15 Nm)</td>
<td>0-10 Vdc</td>
<td>24 Vac ±20%-15%</td>
<td>0-10 Vdc</td>
<td>2</td>
<td>&lt; 125</td>
<td>MN220A2205</td>
<td>175 lb-in. (20 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
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<tr>
<td>MF4-6343</td>
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<td>Floating</td>
<td>24 Vac ±20%</td>
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<td>-</td>
<td>&lt; 145</td>
<td>MN6134A1003</td>
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<td>-</td>
<td>2 (5, 85)</td>
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<td>MS41-6340</td>
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<td>120 Vac ±10%</td>
<td>-</td>
<td>-</td>
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<td>MN234A2208</td>
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<td>2 (5, 85)</td>
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<td>24 Vac ±20%</td>
<td>-</td>
<td>-</td>
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<td>MN234A2208</td>
<td>300 lb-in. (34 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
<td>95</td>
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<tr>
<td>MS4D-6043-100</td>
<td>35 lb-in. (4 Nm)</td>
<td>2-10 Vdc</td>
<td>24 Vac ±20% 20-30 Vdc</td>
<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 85</td>
<td>MN750A2001</td>
<td>44 lb-in. (5 Nm) On/Off, Floating</td>
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<td>2 (5, 85)</td>
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<td>MS4D-6043-150</td>
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<td>0-10 Vdc</td>
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<td>2-10 Vdc</td>
<td>-</td>
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<td>MN750A2001</td>
<td>44 lb-in. (5 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
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<td>MS4D-6043-160</td>
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<td>4-20 mA</td>
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<td>MS4D-6083-100</td>
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<td>24 Vac ±20% 20-30 Vdc</td>
<td>2-10 Vdc</td>
<td>-</td>
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<td>24 Vac ±20% 20-30 Vdc</td>
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<td>0-10 Vdc</td>
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<td>2-10 Vdc</td>
<td>-</td>
<td>&lt; 85</td>
<td>MN7510A2001</td>
<td>88 lb-in. (10 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
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<td>-</td>
<td>&lt; 90</td>
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<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
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<td>24 Vac ±20% 20-30 Vdc</td>
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<td>0-10 Vdc</td>
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<td>300 lb-in. (34 Nm)</td>
<td>1-5 Vdc 4-20 mA</td>
<td>24 Vac ±10%</td>
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<td>-</td>
<td>&lt; 145</td>
<td>MN234A2208</td>
<td>300 lb-in. (34 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
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</tr>
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<td>MS50-H2101</td>
<td>300 lb-in. (34 Nm)</td>
<td>1-5 Vdc 4-20 mA</td>
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<td>&lt; 145</td>
<td>MN234A2208</td>
<td>300 lb-in. (34 Nm) On/Off, Floating</td>
<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>-</td>
<td>2 (5, 85)</td>
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<td>24 Vacs 20 / -15%</td>
<td>0-10 Vdc</td>
<td>—</td>
<td>2 (5, 85)</td>
<td>95</td>
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</tbody>
</table>

*All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.*
## Siemens

<table>
<thead>
<tr>
<th>Siemens Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal(a)</th>
<th>Power</th>
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<th>Switches</th>
<th>Timing (sec)</th>
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<td>44 lb-in.</td>
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\(a\) All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
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<th>Control Signal</th>
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<td>24 Vac/ Vdc</td>
<td>0-1kOhm</td>
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* All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.
<table>
<thead>
<tr>
<th>Siemens Model</th>
<th>Torque (lb-in.)</th>
<th>Control Signal</th>
<th>Power</th>
<th>Feedback</th>
<th>Switches</th>
<th>Timing (sec)</th>
<th>Honeywell Actuator</th>
<th>Torque (lb-in.)</th>
<th>Control Signal*</th>
<th>Power</th>
<th>Feedback*</th>
<th>Switches</th>
<th>Timing (sec)</th>
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<td>24 Vac (±20%), 24 Vdc</td>
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<td>(7, 85)</td>
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<td>(7, 85)</td>
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<td>0-1kOhm</td>
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<td>24 Vdc (±20%), 24 Vdc</td>
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<td>2 (7, 85)</td>
<td>90</td>
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</tbody>
</table>

* All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

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