



Precision Reducer Application Data Sheet

Certain application information is critical to insure proper selection of a precision speed reducer. Please complete the following data sheet so that we may provide timely service. Thank you.

1. Move Profile: (Please fill in the blanks in the diagrams below.)

<p>Speed <input type="text"/> RPM</p> <p>Time (S)</p> <p>t_A <input type="text"/></p> <p>t_R <input type="text"/></p> <p>t_B <input type="text"/></p> <p>t_P <input type="text"/></p> <p>t_M <input type="text"/></p> <p>t_C <input type="text"/></p>	<p>Where: (times in seconds)</p> <p>t_A = Acceleration time</p> <p>t_R = Run time at constant speed</p> <p>t_B = Braking (deceleration) time</p> <p>t_P = Pause (rest) time between moves</p> <p>t_M = Move time ($t_A + t_R + t_B$)</p> <p>t_C = Cycle Time ($t_M + t_P$)</p>
<p>Torque (lb-in) or (Nm)</p> <p>Time</p> <p>T_A <input type="text"/></p> <p>T_R <input type="text"/></p> <p>T_B <input type="text"/></p> <p>T_P <input type="text"/></p> <p>Check One:</p> <p><input type="checkbox"/> Data is in lb-in</p> <p><input type="checkbox"/> Data is in Nm</p>	<p>Where:</p> <p>T_A = Acceleration torque</p> <p>T_R = Running torque at constant speed</p> <p>T_B = Braking (deceleration) torque</p> <p>T_P = Pause (rest) torque (if required to maintain position between moves)</p>

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2. How many hours per day does the application operate? _____

3. What is the required reduction ratio? _____ :1

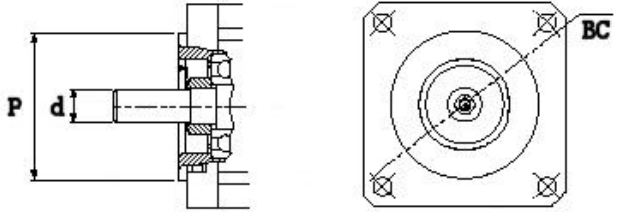
4. Please provide the following motor performance data:

1. Motor Rated Speed _____ RPM
2. Motor Continuous Stall Torque _____ (Nm) (lb-in)
3. Motor Peak Torque _____ (same units as above)
4. Manufacturer _____
5. Model Number _____

5. Should Sumitomo include a motor adapter?

- Yes
 No

If Yes is selected above, please provide the following motor dimensions or provide a copy of a motor drawing.

Shaft diameter (d) _____ (mm) (in) Pilot diameter (P) _____ (mm) (in) Bolt Circle dia. (BC) _____ (mm) (in)	
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Is the motor shaft keyed or keyless?

- Keyed
 Keyless

6. How is the reducer coupled to the final load?

- Direct Coupled
 Timing Belt or Chain Drive (see number 8 on the following page)
 V-Belt (see number 8 on the following page)
 Pinion Gear driving rack or other gear (see number 8 on the following page)
 Other (see number 8 on the following page)

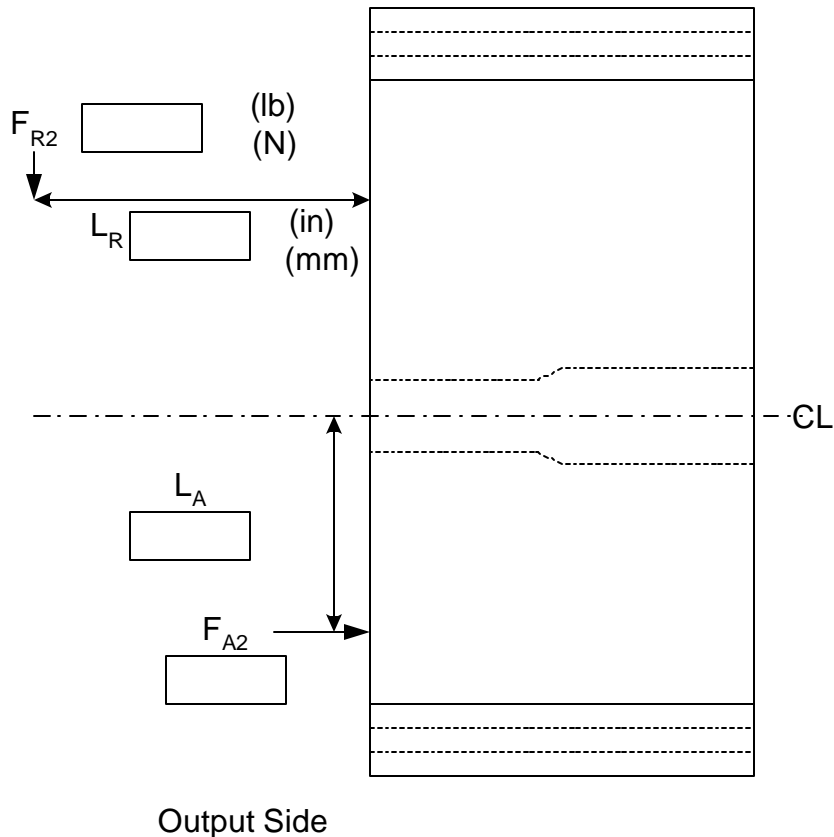
7. Please select one of the following load characteristics

- Uniform Load
- Moderate Shock Load
- Heavy Shock Load

8. Radial and Axial Loading

Is there any radial and/or axial loading on the reducer output?

- Yes (Please fill in the appropriate blanks in the diagram below)
- No



Where: F_R = Radial Force (specify units)
 L_R = Radial Force distance from face (specify units)
 F_A = Axial Force (units same as F_R)
 L_A = Axial Force distance from center line (units same as L_R)

9. Please include any other information that you feel may be useful to insure a proper selection.