



Merkle-Korff Industries®

A Kinetek Company®

25 Northwest Point Blvd., Ste. 900, Elk Grove Village, IL 60007

(P) 847-439-3760 (F) 847-439-3963 (E) sales@merkle-korff.com (W) www.merkle-korff.com

BRUSHLESS APPLICATION SPECIFICATION FORM

DATE _____

COMPANY _____ CONTACT _____

ADDRESS _____ PART OR DRAWING NUMBER _____

ESTIMATED ANNUAL USAGE _____

PHONE _____ FAX _____ E-MAIL _____

Application

- a. Customer application _____
- b. What mechanism is the motor driving in the application? _____
- c. (New / Existing) If existing, who is the current supplier? _____ Is unit available for test? (Yes No)
- d. Are there any problems or concerns with the existing supplier's motor? _____

Performance Requirements

- a. Rated voltage _____ b. Voltage range _____
- c. Output torque est. by: (Test Calculation Estimate) d. Start Torque _____ (in-oz) e. Run Torque _____ (in-oz)
- f. RPM at no load _____ g. RPM at load _____ h. Will motor be stalled?(Yes No)
- i. Life required hours _____ j. Brushless required (Yes No) k. Frameless? (Yes No)

Environment

- a. Ambient temp. _____ b. Humidity level _____ c. Altitude _____
- d. Heatsinking? _____ e. Thermal resistance of heatsink _____ f. Autoclavable? _____
- g. Anything else we should know about the location of our motor within the application? _____

Duty Cycle/Life (< 25% 25% 50% 75% Continuous Other) Define other _____

- a. Standard duty cycle _____ ON (sec min hr) _____ OFF (sec min hr)
- b. Most demanding _____ ON (sec min hr) _____ OFF (sec min hr)
- c. Minimum life required _____ in cycles _____ in hours **note: both required**
- d. Will the motor be required to reverse direction of rotation? (Yes No) e. Is reverse rotation (1/2 turn max) at start up acceptable? Yes No)

Power Supply

- a. Rated voltage: _____ b. Maximum current limit _____ c. Is the supply filtered? (Yes No)
- d. Supply type: (Switched Mode Transformer, bridge, cap, linear regulator battery) Frequency: _____ kHz

Overhung Load (Yes No) How much? _____ lbs. Distance from mounting surface _____

Axial Thrust Load (Yes No) How much? _____ lbs. (Push-in Pull-Out Both)

Output Shaft Requirements

- a. Custom shaft required? (Yes No)
- b. If custom describe mounting end shaft _____
- c. If custom describe side opposite mounting end _____

Optical Encoder (Yes No)

- a. Required (Yes No)
- b. Any special requirements? _____

Agency Requirements: UL CSA CE RoHS Other If other, please list: _____

Sound / Vibration Requirements _____ Method of test _____

Gear Box Selection Select ratio from catalog list _____

EMI / RFI Considerations Emissions Type: (Conducted Radiated Both)

Motor Driver Requirements

- a. Motor driver (amplifier required) (Yes No)
 - b. Is variable speed required? (Yes No)
 - c. Is DC voltage available ? (Yes No)
 - d. Is reverse direction required? (Yes No)
 - e. Is integral electronics required? (Yes No)
 - f. If AC specify voltage and frequency Voltage _____ Frequency _____
- If yes will the input voltage be varied or will the controller have to vary speed with a fixed input voltage. (Yes No)

25 Northwest Point Blvd., Ste. 900, Des Plaines, IL 60007
(P) 847-439-3760 (F) 847439-3963 (E) sales@merkle-korff.com (W) www.merkle-korff.com