



Motor Design Worksheet

Application Reference Checklist



Data Worksheet

CONTACT

Name: _____ Company: _____

Phone: _____ Email: _____

Address: _____ City: _____ State: _____ Zip: _____

APPLICATION

Application Description: _____

Pricing Target: _____ Estimated Annual Usage: _____

MECHANICAL

Load Speed: _____ RPM Duty Cycle: Continuous Intermittent

Continuous Torque: _____ in-lb. On Time: _____ s Off Time: _____ s

Peak Torque: _____ in-lb. Shaft Length / Dia.: _____ / _____ in. / mm

Rated Power: _____ W / HP Dimensions: _____ X _____ X _____ in. / mm

ELECTRICAL

Motor Type: PMDC Brushless DC AC Voltage: _____ V DC AC

Other _____ Load Current: _____ A Peak Current: _____ A

ENVIRONMENTAL

Ambient Temperature Range: _____ Ambient Humidity Range: _____

ACCESSORIES

Wiring Harness Brake Custom Shaft Design Phenolic Gearing Motor Controller

Connectors Encoder Contract Assembly Engineering Services Warehousing Services

Other: _____



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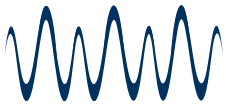
Voltage

Is AC or DC required? What Voltage will your motor run at?



Efficiency

Is AC or DC required? What Voltage will your motor run at?



Current

What amperage limits are on the application?



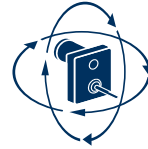
Control

Will the motor need to change speeds / directions? What type of control will you need?



Speed

Do you need high or low speed? Constant or variable speed?



Orientation

Where is the motor mounted in the application?



Torque

Do you need high start or stall torque? What are your running torque requirements?



Size Restrictions

What are the size restrictions of the motor? Does it need to fit into a certain space?



Power

What are the HP or Wattage requirements for the application? are there mechanical limitations?



Environment

What is the ambient temperature and humidity of the application?



Duty Cycle

Will the motor be operating intermittently or continuously? How long of a cool down?



Load Capacity

What will the load capacity of the motor be? Will there be any overhung loads? What is the maximal load?



Weight

Will there be any weight limitations for the motor?



Ingress Protection

Will the application environment be harsh and need protection from dust and moisture?



Noise Levels

How important are the noise levels of the motor in your industry / application?



Regulatory Approval

What agency certifications will need to be met? UL, CSA, CE, FCC, ETL, Intertek, RoHS.



Lifespan

How long do you expect the motor to last? Is it easily maintainable?