Motor Design Worksheet

Application Reference Checklist

MULTIPRODUCTS Company, Inc.

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?

Current ☐

What amperage limits are on the application?

Speed ☐

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

Torque ☐

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

Power ☐

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

Duty Cycle ☐

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

Weight ☐

Will there be any weight limitations for the motor?

Noise Levels ☐

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

Lifespan ☐

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

Efficiency ☐

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

Control ☐

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

Orientation ☐

Where is the motor mounted in the application?

Size Restrictions ☐

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

Environment ☐

What is the ambient temperature and humidity of the application?

Load Capacity ☐

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

Ingress Protection ☐

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

Regulatory Approval ☐

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