

Motor Performance Requirements:

HP _____ kW _____

Poles: _____ RPM _____

Speed _____ Fixed speed

Adjustable speed Variable torque Constant torque

Min Speed _____ Max speed _____

Volts _____ 3-phase 60Hz 50Hz

NEMA Design: Design B Design C Design D

Efficiency level Super-E™ Premium High Efficiency

Rotor design: Standard Fabricated copper bar

Service Factor: 1.0 1.15

Insulation Class: F H

Temperature rise: Class B (80°C) at F.L.
 Class F at F.L.
 Class B (80°C) at F.L.; Class F at S.F.

Torque (Full Load) _____ Torque (Pull-up % Flt) _____

Torque (Breakdown % Flt) _____ Torque (Locked Rotor % Flt) _____

Enclosure: TEFC
 TEBC
 ODP
 Explosion Proof - Class _____ Group _____ Zone _____
 Division 2 – Temperature code _____

Mounting: NEMA IEC
 Horizontal Vertical
 F1 F2 Top Other _____
 C-face D-flange
 P-base - specify flange diameter _____

Shaft: Drive end shaft
Diameter _____ Length _____ Key _____

Opposite drive end shaft
Diameter _____ Length _____ Key _____

Special shaft machining – specify or supply drawing _____

Material: Standard
 Stainless – type _____

Bearings

- Anti-friction: Ball Roller
 Coupled Belted (data sheet attached)

Thrust:

- Horizontal: Towards motor _____ lbs or kg
 Away from motor _____ lbs or kg
 Vertical: Down Continuous _____ lbs or kg
 Maximum _____ lbs or kg
 Up Continuous _____ lbs or kg
 Maximum _____ lbs or kg

Lubrication:

- Self lubricated Oil Mist Force lubricated
 Special grease or oil _____

Bearing protection:

- None
 Forsheda® type Both ends
 Inpro/Seal® VBX Both ends
 Contact seal Both ends

Bearing electrical protection:

- Shaft grounding brush
 Electrically isolated bearings

Bearing temperature monitoring:

- RTDs - Qty. 6 – 2 per phase
 100 ohm platinum
 10 ohm copper
 120 ohm nickel
 Thermistor - Brand _____

Bearing vibration monitoring:

- Robertshaw 365 Vibraswitch® Both ends

Vibration level deflection

- < 0.015 in/sec <0.010 in/sec _____ in/sec

Sound level NL.

Max sound pressure level _____ dBA at _____ ft or _____ m,

Motor Starting / Drive

- Full voltage
 Reduced voltage specify _____
 Electronic soft start specify _____
 Loaded Unloaded

Load WK² at Shaft:

- ≤ NEMA MG1-1998-20.11
 Specify reflected load inertia _____

Number of starts:

- NEMA MG1-1998 –20.12.1
 Additional _____ Cold _____ Hot

Drive Requirements

Inverter

- Vector Vector – open loop
- Baldor Quote Baldor with motor
- Other – brand / model _____
PPR _____ Voltage _____
- Optical Encoder
- Magnetic pulse generator – # of pickups _____
- Specific brand / model _____

Feedback:

Special Options and Accessories

Winding Temp. Device:

- Thermostats – normally closed
- RTDs - Qty. 6 – 2 per phase
 - 100 ohm platinum
 - 10 ohm copper
 - 120 ohm nickel
- Thermistor - Brand _____
- Separate conduit box (required for medium voltage)

Space Heaters:

- 120 volt 230 volt
- Separate conduit box

Special items:

- Deferred warranty / long term storage provision
- Export crating

Special Testing

Routine

- Unwitnessed Witnessed

Complete

- Unwitnessed Witnessed

1. Routine tests above.
2. Measure efficiency at 100%, 75%, 50% and 25% of full load.
3. Measure power factor at 100%, 75%, 50% and 25% of full load.
4. Temperature rise test.
5. Measure locked rotor current.
6. Measure breakdown and starting torques.

Sound test per IEEE 85

- Unwitnessed Witnessed

Speed torque test

- Unwitnessed Witnessed

Provide curves of motor speed-torque and speed-current at specified input voltage and frequency

Bearing temperature

- Unwitnessed Witnessed

Determines the stabilized bearing temperature at no load. Specify minimum test duration time on order.

Matched Performance™

- Unwitnessed Witnessed

Baldor Matched Performance™ temperature rise test using Baldor motor control. Operate motor to Class F rise to establish operating envelope for the motor.

Other _____

- Unwitnessed Witnessed