



New Application

Project Name:
 Equip. #'s , , , ,
 Location

Toshiba Duplicate

Project Name:
 Model #
 Serial #
 » Attach photo of existing nameplate (s) «

+ Min. Must be included for a formal quotation.

+1. GENERAL SCOPE

Qty HP kW Poles RPM Voltage Hz Service Factor D.O.L. VFD

Squirrel Cage Induction Wound Rotor Induction Synchronous

1.2 ROTATION (*facing non-drive end of motor*)

CCW CW Bi-Directional (Available on 4 Pole and slower)

+1.3 ENVIRONMENTAL

0 – 40°C Ambient
 3300 Ft. / 1000 M. or less Altitude

NON-STANDARD TEMPERATURE & ALTITUDE

Min: -°C Max. +°C
 Site Elevation in Meters or Feet

1.4 TEMPERATURE RISE AT ELEVATIONS

80°C Rise by Resistance @ 1.0 S.F. over 40°C Ambient (*Std.*)
 °C Rise at S.F., by Resistance or Detector over °C Ambient

+1.5 ENCLOSURE

ODP (Open Drip Proof) TEFC (Totally Enclosed Fan Cool)
 WP-I (Weather Protected Type 1)
 TEAAC (Totally Enclosed Air-to-Air Cooled) – Tubes: Aluminum, Caron Steel or Stainless Steel
 TEPV (Totally Enclosed Pipe Ventilated)
 TEWAC (Totally Enclosed Water –to-Air Cooled) – Tubes: Aluminum, Cu-Ni or Stainless Steel
 WP-II (Weather Protected Type II)

+1.6 APPLICATION (Load -Inertia & Speed Torque Curve, **Crank-Effort Curve*)**

Centrifugal Pump	Centrifugal Compressor	Paper Mill	Ball Mill ***
Reciprocating Compressor*/**	Screw Compressor*	Kiln	Crusher ***
Fan	High Inertia (App/Inertia)		Conveyor
Other:			



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+1.7 HAZARDOUS AREA:

Non-Hazardous (*Safe Area*)

Hazardous CLASS: I II DIVISION: 1 2 TEMP CODE:
 ZONE: 1 2
 GROUP: A B C D Other:

1.8 NOISE LIMITATION - *Sound Pressure Level (No-Load on Sine Wave Power, Weighted Average, Typical)*

90 dBA @ 1 Meter - 2 Pole (add 2 dBA to guarantee)
 85 dBA @ 1 Meter (add 2 dBA to guarantee)
 dBA @ 1 Meter

+1.9 MOTOR STARTING:

DOL / Direct Online (90% Minimum Voltage)	VFD Start / DOL Bypass
RVS - Reduced Voltage Start % ①	VFD Start / Run (Constant Torque)
SSS - Solid State Reduced Voltage Start % ①	VFD Start / Run (Variable Torque)
RVAT - Reduced Voltage Auto-Transformer Start ①	

(①- *If voltage is below 90%, Load wK^2 @ Motor shaft & speed torque curve of driven equipment.*)

Load Inertia (changes included)	Load Curve (changes included)
Two Speed Winding	Wound Rotor Start
Other:	

VFD (Variable Frequency Drive) DUTY

CONDITIONS: 30 to 60 Hz. Variable Torque to Hz. Variable Torque
 to Hz. Constant Torque to Hz. Constant Power

VFD Brand/ Model:
 NEMA MG1 Part 31 Insulation System
 Tachometer Required Make / Model
 Other:

2.0 CONSTRUCTION

+2.1 BEARINGS & LUBRICATION

Anti-Friction Bearing	Grease	Oil Mist	Provision for Oil Mist
Sleeve Bearing	Self Lubricated Sleeve		Constant Level Oiler
	Force / Flood Lubricated		Jacking Oil Provisions
	Other:		



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2.2 MOUNTING-FLANGES

Horizontal	Vertical	
C-Face	D-Flange	P-Base

Vertical Mounting Conditions – Solid Shaft Only:

Thrust Conditions:	Continuous Down	Lb	kG
	Maximum Down	Lb	kG
	Maximum Up	Lb	kG

Non-Reversing Device (Viewed down toward drive equipment from top of motor).

2.3 SHAFT EXTENSION(S)

Standard Short Shaft (USS)	Standard Shaft (US)	Direct Coupled Standard Belt Duty Shaft (UZ) (<i>Specify max. belt pull / center to center distance / Sheave sizes</i>)
Keyless Design*	Minimum Shaft Diameter* (<i>*Reciprocating Compressor Only</i>)	
Double Shaft		
NEMA (N-W) " NEMA(U) " NEMA (E-S) " NEMA (E) "		
1040 Shaft Steel	4140/42 Shaft Steel	Shaft Steel

+2.4 ROTOR ASSEMBLY

Die-Cast Aluminum	Copper Bar	Anti-Corrosive Paint
Phosphorous-Free Braze Material (Copper Bar Only)		

2.5 MAIN TERMINAL BOX

Standard Oversized Terminal Box	NEMA Type II
Location:	
NEMA F1 (Left Side Facing Drive End - Standard)	Cast Iron (<i>Not Available in Type II</i>)
NEMA F2 (Right Side Facing Drive End)	Fabricated Steel
Other	Stainless Steel NEMA 4X (<i>Type II Only</i>)

Accessories for Type II Box

Stand Off Insulators (Standard)	Stress-Cone Provisions	Copper Ground Bus-Bar
Drain Hole	Breather Element	Rupture Panel (<i>Pressure Relief Vent</i>)
Space Heater Voltage	Silver-plated Copper-Bus	Removable Blind Gland Plate
Lightning Arrestors (Not available when VFD operated)		
Surge Capacitor (<i>Not available when VFD operated</i>)		
Differential CT's (3, <i>Self-Balancing 50:5 Ratio</i>)		
Other:		



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SHAFT VIBRATION MONITORING (*Sleeve Bearing Only*)

Bently-Nevada® Vibration Probe Provisions (X-Y Both Ends) Non-Contact

Bently-Nevada® Proximity Probes and Sensors (Qty 2 per bearing)

Bently-Nevada® Phase Monitoring Probe only

X- (*One-Only*) Horizontal Plane X-Y Horizontal and Vertical Plane Both Drive and Non-Drive Ends

Key-Phasor Probe Provisions

Key-Phasor Probe

2.12 GROUNDING PROTECTION

NEMA Two Hole Ground Pads on Frame One Two Copper Pad Stainless Steel Pad

2.13 ENVIRONMENTAL PROTECTION

WP-II Enclosure 70 Micron 304 Stainless Steel Filters

WP-II Differential Pressure Switch Provisions

WP-II Differential Pressure Gauge

WP-II Differential Pressure Switch Stainless

Corrosion Resistant Hardware

Steel Hardware 304 316

2.14 PAINT & COATINGS

Toshiba® Green RAL# 6011

White RAL# 9003

Safety Yellow RAL# 1023

Toshiba® Grey RAL# 7035

Gray Munsell 5BG 5/8

Other: RAL #:

+2.15 SPECIFICATION AND STANDARDS

NEMA MG1

Toshiba TEFC 840 Severe Duty

IEEE-841 2021

CSA Certificate

API 541 5th Edition (*Submission of API Data Sheet is required*)

CSA General

API 547 2nd Edition (*Submission of API Data Sheet is required*)

+2.16 TESTING

Unwitnessed Routine IEEE-112

Witnessed Routine IEEE-112

Polarization Index

Unwitnessed Complete IEEE-112

Witnessed Complete IEEE-112

Vibration Displacement Test

Other:

Other Requirements: