intMPE MOTORS
YKK 560-2  4000HP 4160 V  60Hz

It’s easy to see what’s been missing.
Brief Introduction

YKK / YKKE Series High Voltage Three-phase Asynchronous Motor

- Frame size: H355-800mm
- Power Range: 110kW-2500kW
- Rated Voltage: 3kV, 6kV, 10kV
- Rated Frequency: 50Hz, 60Hz
- Degree of protection: IP44, IP54, IP55
- Insulation Class: (F or H)
- Mounting type: IMB3, IMB35
- Cooling Method: IC611
- Pole: 2 ~ 18P
- Duty: S1 (S1)
Brief Introduction (cont’d)

BRIEF INTRODUCTION

Mfg. Plant Covers Area 46200 square meters.

Set Up In July of 1993. Plant has 20 Years Experience On Producing Electric Motors. 450 Employees, Among them is 50 Technicians, 30 Quality Control & 300 Production Operators.

Annual Turnover In 2015 was US$60 Million/2.38 Million KW. Present Annual Production Capacity is 3 Million KW.

COMPANY CULTURE

- CORPORATE MISSION:
  to be the most reliable motor manufacture

- BUSINESS PHILOSOPHY:
  High quality products, superior service, create max value for customer

- CORE VALUE:
  Credit-based, thanksgiving first, centering on responsibility

- QUALITY POLICY:
  Quality first, pursuing excellence to provide customers with quality products and satisfactory service.

PRODUCT RANGE

- CAST IRON: H132-560mm
- HIGH VOLTAGE: H280-900mm
- INVERTER MOTOR: H132-900mm
- POWER RANGE: 5.5-5000KW
MAIN PRODUCTS

- ZYS series compressor motors
- IE2 series high efficiency motors
- IE3 series supper high-efficient motors

Low-voltage and large-power motors

- Y/YKK/Y2 series HIGH-VOLTAGE motors
- 2Poles high-speed low noise high-voltage motors
- YR/YRKK series slipping ring motors
- IE2/IE3-ODP IP23 series motors

Special Customized

STANDARDS

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Special-Used Compressor Motors

ZYS Series Compressor Motors

H132-H900
Power: 5.5-5000kW
SF: 1.1, 1.15, 1.2, 1.25, 1.3
Voltage: 380V, 400V, 440V, 690V, 600 0V, 10000V
Frequency: 50, 60Hz
Types of Motors

Y2VP Inventor Motor

Y2VP Variable Frequency Motor

H132-560
Power: 7.5-2000kW
Mounting B3, B35, V1

High Efficiency Motor

IE2 and GB18613 -II

H132-560
Power: 5.5-500kW
IP54, 55
Mounting B3, B35, V1
Types of Motors

Low Voltage and Large Power

H280-900
Power: 355-5000kW
IP55, IP23
Mounting B3, B35, V1

High Voltage Motor

YKK High Voltage Motor

H355-900
Power: 355 - 5000kW
IP55
Mounting B3, B35, V1
Compressor Motor Market Structure

- Oil Free screw compressor
- Process compressor
- Centrifugal compressor
- Refrigeration compressor

VPI Insulated Equipment
Technical Information

Motor Vibration

**MECHANICAL VIBRATION**
- Main Cause: Shaft Un-Dynamic
- Improvement: Adopt Excellent Material
- Special Treatment: Modified Technology for Stiff Shaft, Material 40Cr

**AXIAL VIBRATION**
- Description: Stator or Rotor thermal expansion at hot state to tighten bearing at axial position.
- Component referred to Axial Dimension is Limit Deviation or off-Measurement, it is accidental.
- Improvement: Enlarge Bearing Expansion gap at NDE

**ELECTRO-MAGNETIC VIBRATION**
- Description: Periodical “buzz” sound, and periodical change. No vibration at no load, “buzz” louder with load and shorten periodically.
- Main cause: magnetic circuit undynamic
- Improvement: Adopt specified supplier. Adopt 90° transposition at punching to ensure conformity of magnetic induction at circle direction.
Technical Information

Motor Vibration

CRITICAL SPEED
- After comparing, design value of critical speed is 2100RPM, but actual measurement is 2500-2700RPM.
- Based on actual value, we adjust critical speed of rotor, which is much more easy to satisfy vibration.

Motor Oil Leakage
- At present, connection of pipe is welding, and make water pressure test.
- For necessary, use special sleeve to connect.
- Bearing interface is coated with sealant.
- Provide multi-aperture rectifier plate

Voltage Changing Equipment
We have <Specified Technological spec for 2P HV Shaft>

- Rotor adopts lift into technological at assembly.
- Shaft adopts milling shaft technological to ensure runout requirement at key dimension
- Record key dimension of component.
- Motor must be checked strictly for oil leakage
- Test vibration at hot state before factory leaving
intMPE® Industrial Pumps, Motors, Valves and a lot more!

Global Reach
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