



شركة السكر والصناعات التكاملية المصرية
Egyptian Sugar & Integrated Industries Company
ESHIC

قطاعات المشروعات
الإدارة العامة للشئون التجارية
إدارة المشتريات

مناقصة رقم: ٢٥/٣٣/٧٠٠٠

البيان: توريد محرك بمخفض سرعة قدرة ٧,٥ ك.وات

لمصانع أبوقرقاص

جلسة: ٢٠٢٤/٢/٢٤ الساعة الثانية عشرة ظهرًا

السادة /

تاريخ الإعداد فبراير ٢٠٢٥

PROJECT AFFAIRS
Tel 38115862 - 38115863
Fax: 3 8114193

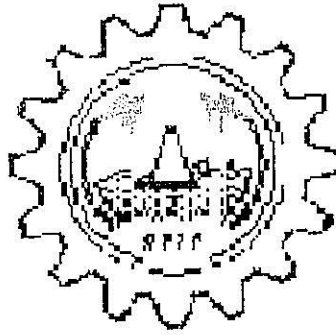
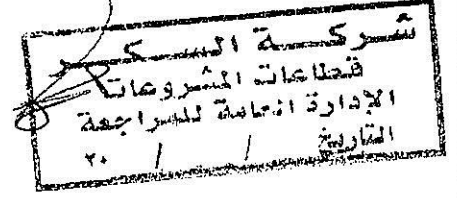
E-mail: project_sectors siicegypt.com

قطاعات المشروعات
ت: ٣٨١١٥٨٦٢-٣٨١١٥٨٦٣
ف: ٣٨١١٤١٩٣

بريد الكتروني: project_sectors @Siicegypt.com

ARAB REPUBLIC OF EGYPT
شركة السكر والصناعات التكاملية المصرية
EGYPTIAN SUGAR & INTEGRATED INDUSTRIES COMPANY

E.S.I.IC



محرك كهربائي بمخفض سرعة
خاص بلاقط العروش
لمصنع ابوقرقاص

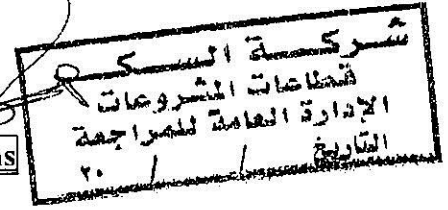
شركة السكر والصناعات التكاملية
حوامدية - جيزة - مصر
تليفون: ٣٨١١٥٨٦٢ - ٣٨١١٥٨٦٣
فاكس: ٠٢/٣٨١١٤١٩٣

٩٤

قائمة المحتويات

عدد الورق	الموضوع	م
٣	المواصفات	١

Low Voltage Motors Specifications



General:-

This part of standards defines the main requirements for low voltage AC motors .
The motors shall be of Squirrel cage induction motor type, Cast iron made , standard AC motors .

The motors shall be comply with the laws and stipulations currently in force in Egypt .

The size of the motor frames and shafts confirm to IEC recommendations .

The electrical characteristic shall also confirm to IEC standards.

The motors will be connected to 415 volt power distribution system (delta connection).

Motors voltage rated shall be 415 Volt .

Duty Type

All motors shall be rated for continuous running duty type (S1) as specified in IEC publication 43-1.

All motors shall be suitable for rotor resistance Starting .

Rated synchronous

Rated synchronous speeds shall be as follows , unless otherwise mentioned

Rated Power

Rated output values shall confirm to IEC publications 72.for preferred ratings.

Constructions

The degree of protection shall be IP55 outside or better .

The cooling system shall be IC 411. The Fan shall be so designed that the motor can rotate in both direction without change of fan .

The insulation for motor windings shall be class F . the allowable temperature shall be in accordance with class F

Motors shall stand at least three successive starts without any damage.

All motors shall be provided with cable sealing.

Motors of IEC frame size 160 and larger shall be equipped with lubrication nipples .

All bearings shall have an estimated minimum life of 80000 hour .

Re-lubrication and vibration measurement shall be possible during operation for all large motors (IEC frame size 160 and larger) .

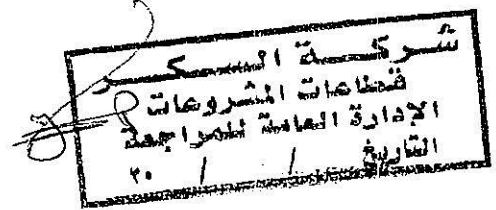
All external parts of the frames that will be exposed to ambient conditions , shall be protected against corrosion by sufficient painting .

Terminal Box

The degree of protection of the terminal box shall be IP55 or better .

Both winding ends shall be brought out and terminated at the motor terminal box .

25



The terminal shall be marked according to IEC publication 43-8.

The motor terminal box with cable entries (glands...etc) shall be included and dimensioned to accommodate the cable size .

An earthing terminal shall be provided inside the terminal box .

The terminal box shall preferably be located in the top of the motor allowing cable entry from either side .

Rotation

The motor shall rotate clockwise & anticlockwise

Rating plate

The rating plate shall be made of rust proof material and marked with at least the following items :

- Name of manufacturer
- Manufacturers serial number and year of manufacture
- Motor type
- Duty Type
- Rated output (KW)
- Rated voltages
- Rated current for both voltages
- Rated frequency and number of phases
- Rated Speed
- Class of insulation
- Power factor
- Winding connection designated with the appropriate symbols as the IEC recommendations
- IEC frame Number

The supplier shall issue a complete motor list on the motors included in the supply and /or to be acquired by the purchaser .

Technical data of the motors included in the supply must be specified including manufacturer, type, frame size and rated power, voltage, speed and current.

Specification requirements such as unusual starting frequency, exceptionally high moment of inertia , starting torque conditions of the driven machine radial load on the bearing, etc. Shall be stated in the motor list.

Note :-

You should supply geared motor as a package from the same manufacture (our vendor list) not motor with a separate gear box from another manufacture .

production company -

SEW-SIEMENS(flender)-NORD-PIV-REXNOLD-LEORY SOMER

ITEM NO.
No. OFF.

SPECIFICATIONS

1

HOLLOW SHAFT GEARED MOTOR WITH ARM TORQUE & KEY DISC ACCORDING TO THE FOLLOWING SPECIFICATIONS:-

شركة السك
قطاعات المشروعات
الإدارة العامة للمراجعة
التاريخ ٢٠ / /

- * 3 PHASE INDUCTION MOTOR T.E.F.C.
 - * VOLTAGE : 380V & 50HZ
 - * AMBIENT TEMPERATURE : 50 °C
 - * PROTECTION : IP54
 - * INSULATION CLASS : (F)
 - * WORKING HOURS/DAY : 24 hr. (CONT.)
 - * ROTATING : C.C.W & C.W
 - * POSITION SEE FIG(1)
 - * FLANGED MOUNTING SEE FIG(1)
 - * RELATIVE HUMIDITY : 90%
 - * OUTPUT POWER : 7.5 k.w
 - * MOTOR SPEED : 1500 r.p.m
 - * OUTPUT SPEED : 6 r.p.m
 - * AGMA FACTOR : 1.1
 - * MOTOR BODY : CAST IRON
 - * EFFECIENCY CLASS : IE3
 - * DUTY TYPE : S1
 - * MOUNTING POSITION ACCORDING TO ATTACH SKETCH
 - * TYPE OF SHAFT Hollow shaft $\geq \phi 110mm$
- MECHANICAL LOAD
- | | | |
|-------------------------------------|-------|------|
| *STARTING TORQUE: | 14325 | N.M |
| *RUNNING TORQUE: | 11980 | N.M. |
| *MECHANICAL POWER (ABSORBED POWER): | 6 | KW |

