Setting Standards for Excellence

To: Current Holders of MG 1-2006

From NEMA Commmunications Department

Date: 12/8/2008

Subject: Errata to MG 1-2006 *Motors & Generators*

The current publication of MG 1-2006 *Motors & Generators* has a figure with missing dimensions.

It affects Figure 18 on Page 54 in Part 18.

Enclosed is the corrected Part 18, Page 54, along with its backup page, Part 18, Page 53.

Please replace pages Part 18, Page 53 and Part 18, Page 54 in your standard with the attached errata pages.

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TESTS AND PERFORMANCE

18.149 BASIS OF HORSEPOWER RATING

For single-phase induction motors, see 10.34.

18.150 LOCKED-ROTOR CURRENT

18.150.1 Single-Phase Small Motors

For single-phase small motors, see 12.33.

18.150.2 Single-Phase Medium Motors

For single-phase medium motors, see 12.34.

18.150.3 Three-Phase Medium Motors

For three-phase medium squirrel-cage induction motors, see 12.35.

18.151 HIGH-POTENTIAL TEST

See 3.1 and 12.3.

18.152 VARIATION FROM RATED VOLTAGE AT CONTROL BOX

See 12.44.
Length and size of cable should be taken into consideration, and the motor manufacturer should be consulted.

18.153 VARIATION FROM RATED FREQUENCY

See 12.44.

18.154 DIRECTION OF ROTATION

The direction of rotation for submersible motors is clockwise facing the end opposite the drive end.

18.155 THRUST CAPACITY

When submersible pump motors are operated in a vertical position with the shaft up, they shall be capable of withstanding the following thrust:

Horsepower	Thrust, Pounds
1/4 - 1-1/2, incl.	300
2-5, include.	900

MANUFACTURING

18.156 TERMINAL LEAD MARKINGS

The terminal lead markings for single-phase submersible pump motors shall be as follows:

a. Auxiliary winding – red
b. Main winding – black
c. Common auxiliary winding and main winding – yellow

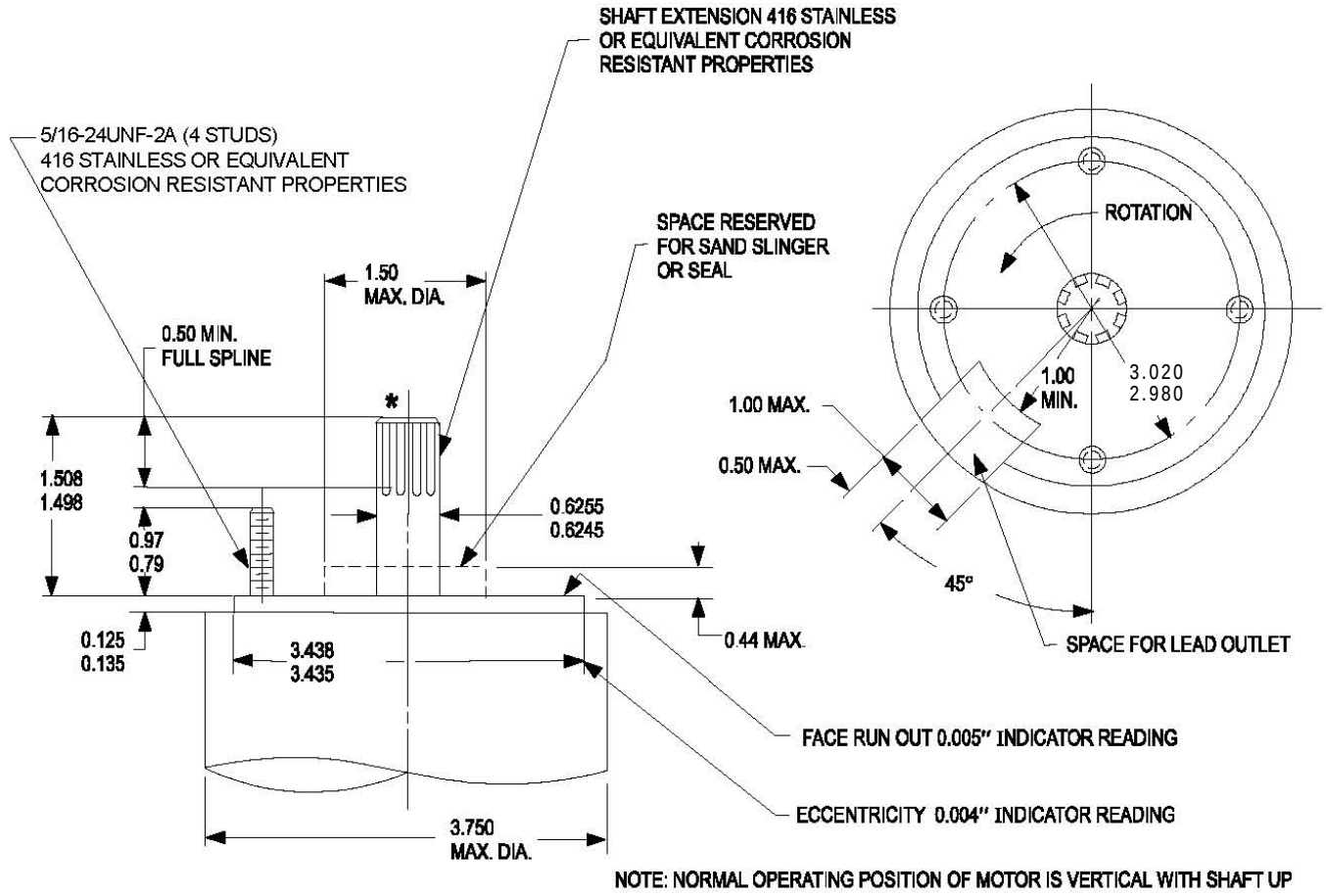
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18.157 GENERAL MECHANICAL FEATURES

See Figure 18-18.



All dimensions in inches.
*Spline Data—14 teeth, 24/48 pitch, 30-degree pressure angle, flat or fillet root, side fit, tolerance Class 5, in accordance with ANSI B92.1 with major diameter reduced to 0.012 inch to allow use with former short dedendum and present standard internal splines.

Figure 18-18
GENERAL MECHANICAL FEATURES

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