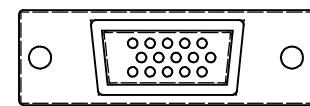


**2-PHASE MOTOR PINOUT**

- PIN 3 = +5Vdc
- PIN 13 = COMMON
- PIN 8 = FAR LIMIT
- PIN 12 = NEAR LIMIT
- PIN 1 = MOTOR A+
- PIN 7 = MOTOR A-
- PIN 6 = MOTOR B+
- PIN 11 = MOTOR B-



15 PIN HIGH DENSITY D-SUB

**USED ON:**

**MATERIAL:**

**FINISH:**

CHAMFER ALL THREADS  
30° TO ROOT DIAM.

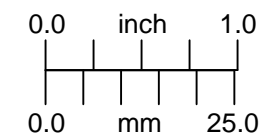
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

TOLERANCES:  
DEC. .XXX ± .005  
DEC. .XX ± .010  
FRACT. ± 1/64  
ANGLES ± 30'  
CONCENTRICITY .003 TIR  
BREAK ALL SHARP EDGES .005 MIN. .010 MAX  
MAX. SURF. ROUGHNESS 32 √

P/N SUFFIX DEFINITION  
-1 CONVERSION COATING  
-2 PAINTING  
-3 MARKING  
-R REWORK

SCALE: 1:1  
DR.: R. PODLENA  
CH.: P. BONAFEDE  
APP.:  
DATE DR.: 11/22/2002  
DO NOT SCALE DRAWING

THE CONTENTS OF THIS DOCUMENT ARE PROPRIETARY TO NAVITAR, ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO REQUEST FOR QUOTATION OR PERFORMANCE OF WORK FOR NAVITAR



**OUTLINE**



MOTORIZED (STEPPER) 6x  
ULTRAZOOM & 12mm FF, DUAL 2  
POSITION LS (HE)

SIZE	1-62316	REV
<b>B</b>	SHEET 1 OF 1	<b>A</b>