



NOTES:

1. MATERIAL: AISI 4140 BAR OR TUBE, QUENCH AND TEMPER 269/321 BHN. ALTERNATIVE MATERIAL: 4340 STEEL
2. IDENTIFY WITH PART NUMBER, SUPPLIER CODE NUMBER, MANUFACTURERS LOT NUMBER, AND REV. LEVEL
3. ALLOWS 1.0 STOCK FOR FINISHING AT ASSEMBLY TO ACHIEVE BEARING END PLAY

REV	CHANGED FROM	BY	DATE	APRD
A	PRE-RELEASE	JFC	8/29/12	
B	REVIEWED PER 1509-ENC-004	CPS	1/18/13	
C	UPDATE BORDER. NOW PART OF TIMKEN ASSY E-52129	CPS	3/15/13	
D	RELEASE FOR PRODUCTION	CPS	4/18/13	
E	ALTERNATIVE MATERIAL APPROVED	CPG	3/25/14	

REPORT ERRORS & CHANGES
REMOVE ALL BURRS AND SHARP EDGES
DIMENSIONS ARE IN MILLIMETERS.
UNSPECIFIED TOLERANCES:

DECIMALS: FINISH: ANGLES:

X. ±1.0 6.3 $\sqrt{\mu\text{m Ra}}$ $\leq \pm 0.5^\circ$
.X ±0.5
.XX ±0.25

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NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY

DRAWN JFC DATE: 8/29/12
CHECKED NJB THIRD ANGLE PRJ

National Renewable Energy Laboratory

TITLE: IM SHAFT BEARING SETTING SPACER

SIZE DWG. NO. REV
B 254508 **E**

SCALE: 1:2 WEIGHT: 0.73 kgs SHEET 1 OF 1