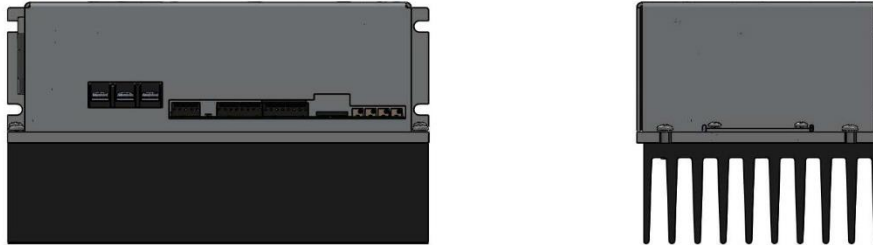


Introduction

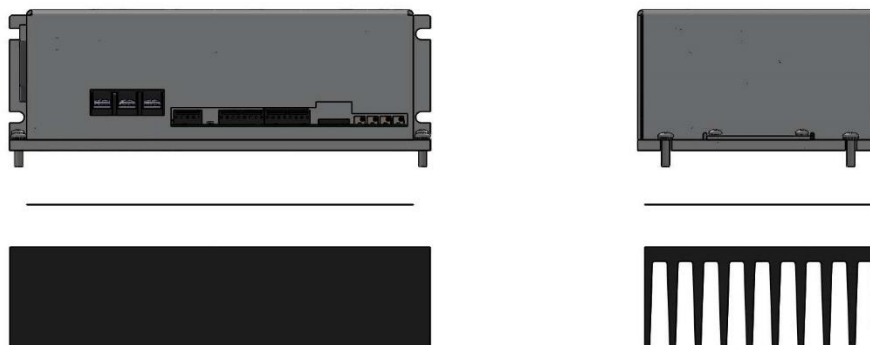
This document describes the procedure for adding an external heat sink to the AB30A200AC servo drive.



Instructions

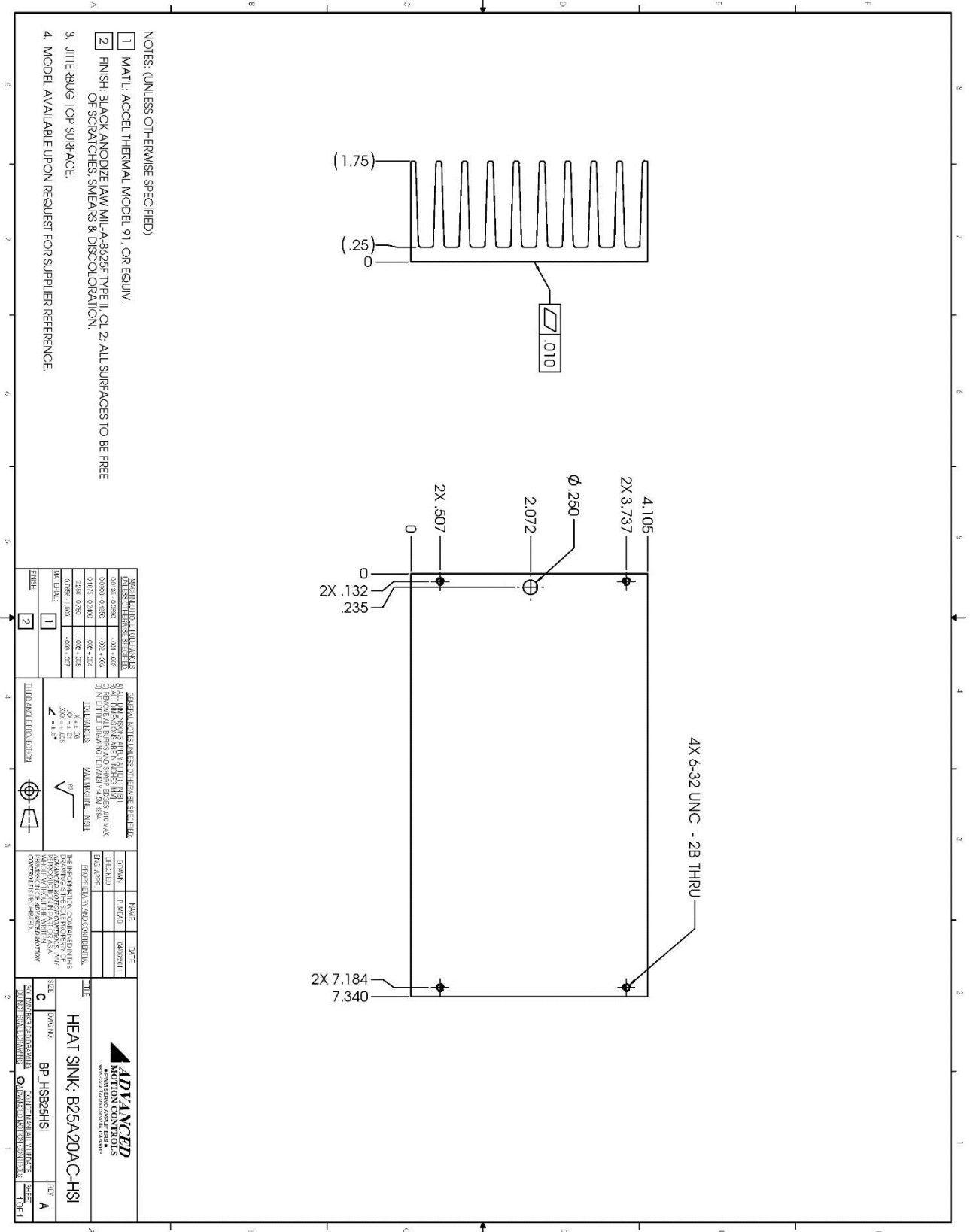
The recommended heat sink dimensions and mounting locations are given on the second page of this document. A STEP model for the heat sink is available for download [here](#).

1. It is recommended to use thermal grease or a thermal pad between the AB30A200AC baseplate and the heat sink. Both solutions are thermally and electrically conductive. It is important to note that there is no isolation between the heat sink and the drive baseplate. The drive baseplate is used as electrical ground.
 - a. **For thermal grease:** Recommended MG Chemicals PN: 860-150G. Apply in a 0.006" thick layer, then torque the heat sink down. Wipe away excess grease. Thermal conductivity in this instance is 0.66 W/m-K (minimum recommended thermal conductivity).
 - b. **For thermal pad:** Recommended Bergquist Q-Pad II (Aluminum, 0.006" thick, 2.5 W/m-K). The pad should be cut to 4.10" x 6.75". Place the pad between the heat sink and the drive, centered, prior to installing screws. The pad can be bought with or without adhesive backing, die cut, or in 12" x 12" sheets.



2. The 6-32 mounting screws should be 1/2" long, and torqued to 7.5-8.5 in-lbs. It is acceptable for a small length of the screw to protrude through the heat sink into the fin area.

Note that any damage done to the board during modification will void the product warranty.



- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. MATL: ACCCEL THERMAL, MODEL 91, OR EQUIV.
 2. FINISH: BLACK ANODIZE IAW MIL-A-8625F TYPE II, CL 2; ALL SURFACES TO BE FREE OF SCRATCHES, SMEARS & DISCOLORATION.
 3. JITTERBUG TOP SURFACE.
 4. MODEL AVAILABLE UPON REQUEST FOR SUPPLIER REFERENCE.

DATE	BY	CHKD	APP'D	DESCRIPTION
04/09/2011				
04/09/2011				
01/25/2010				
01/25/2010				
01/25/2010				
01/25/2010				
01/25/2010				
01/25/2010				

<p>ADVANCED MOTION CONTROLS</p>	
<p>HEAT SINK; B25A200AC-HSI</p>	<p>REV: A</p>
<p>BP_HSB25HSI</p>	<p>TOP-1</p>