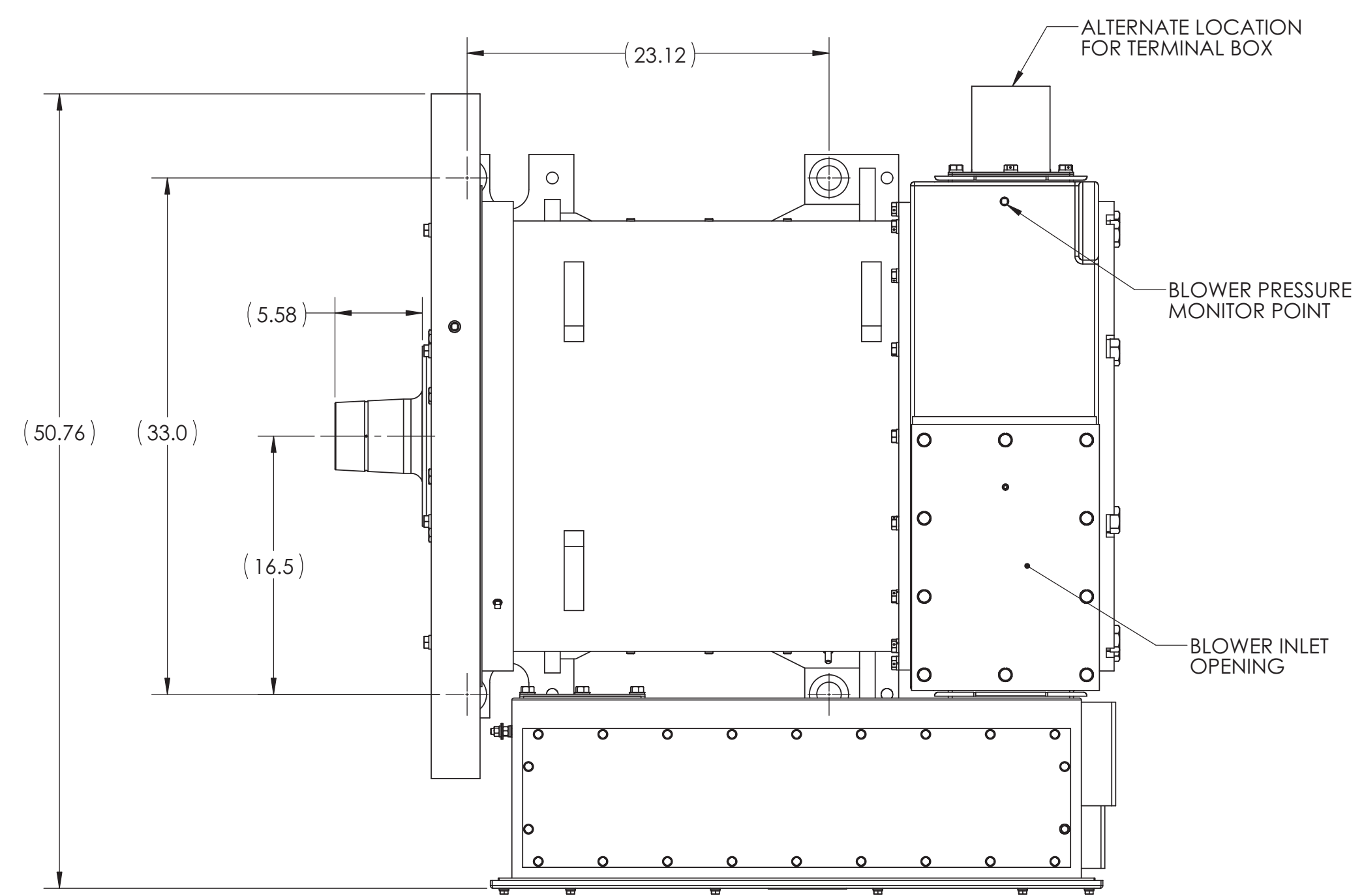
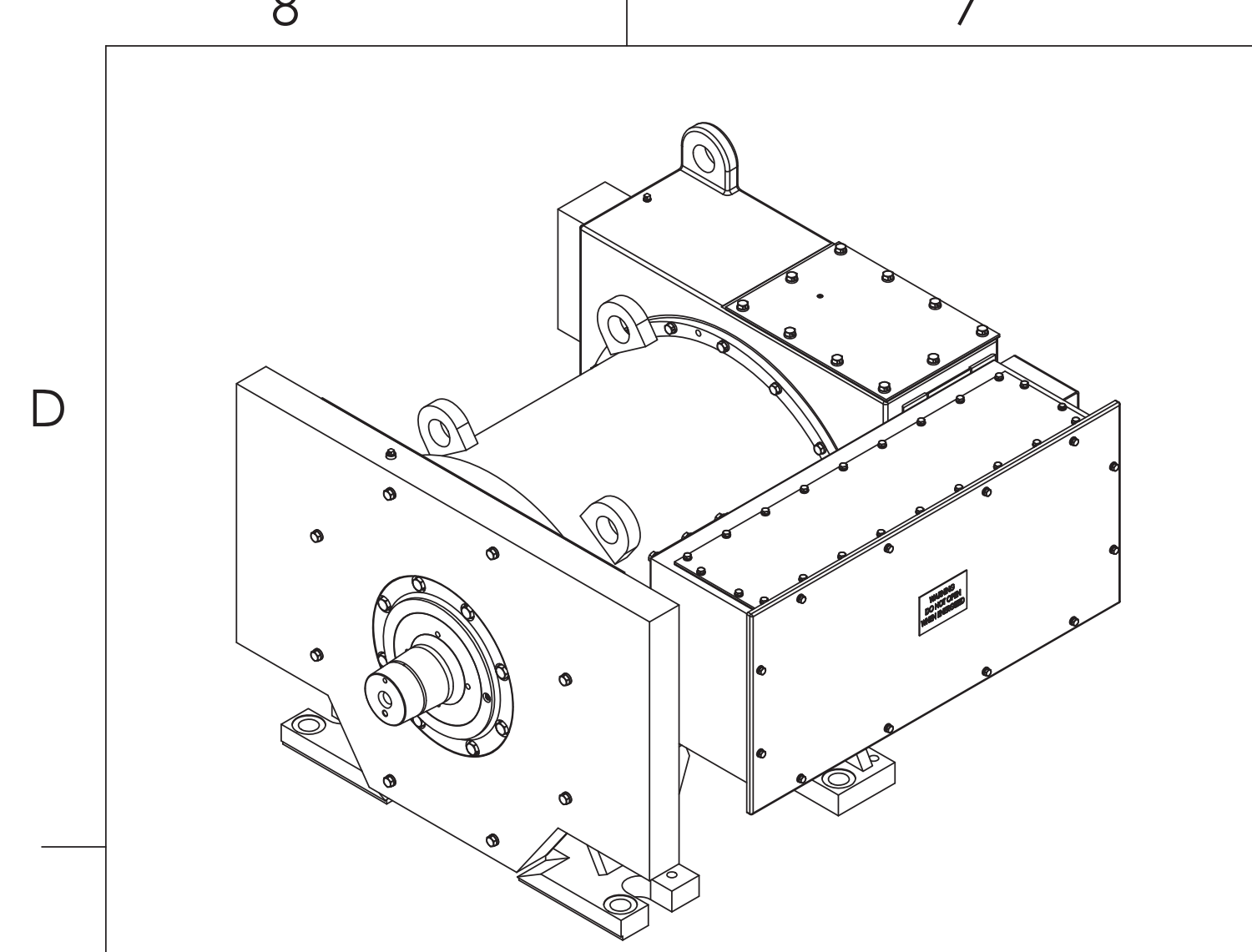
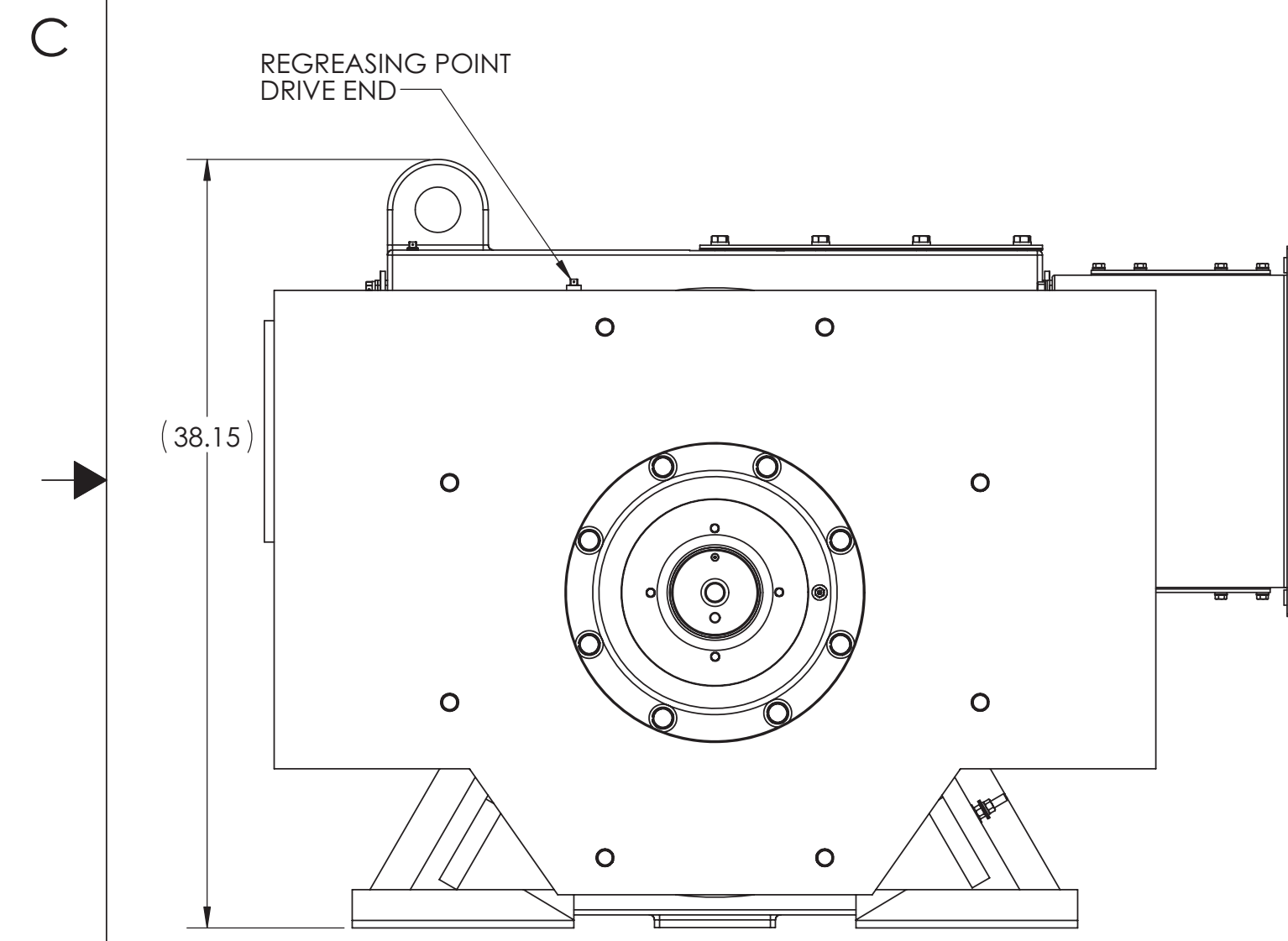


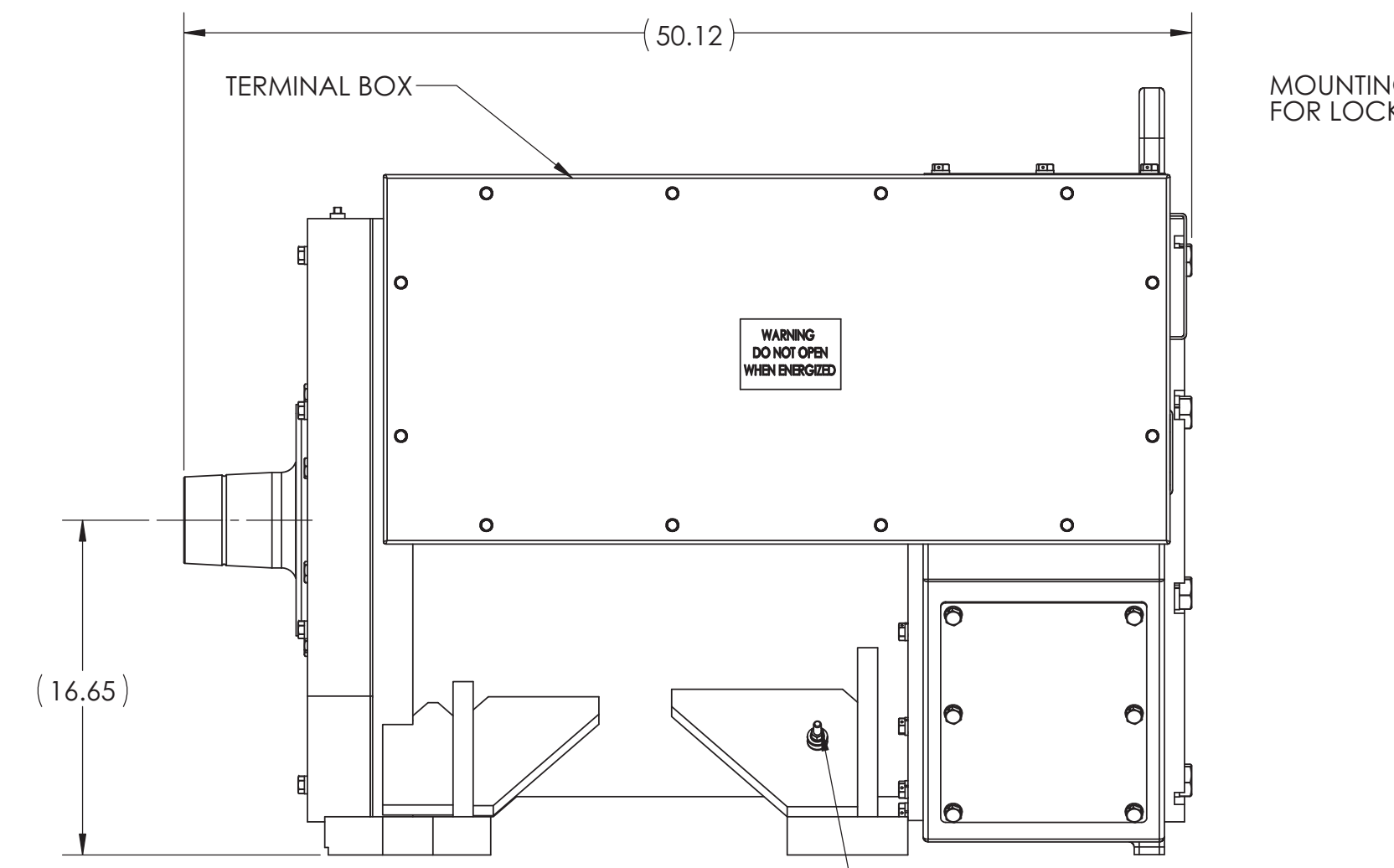
DWG NO	WL22B115 ATEX	SH	1						1
REV.		DESCRIPTION		ECN NO.	DATE	APPR.			
-	INITIAL RELEASE			EC-05304	09JAN2013				



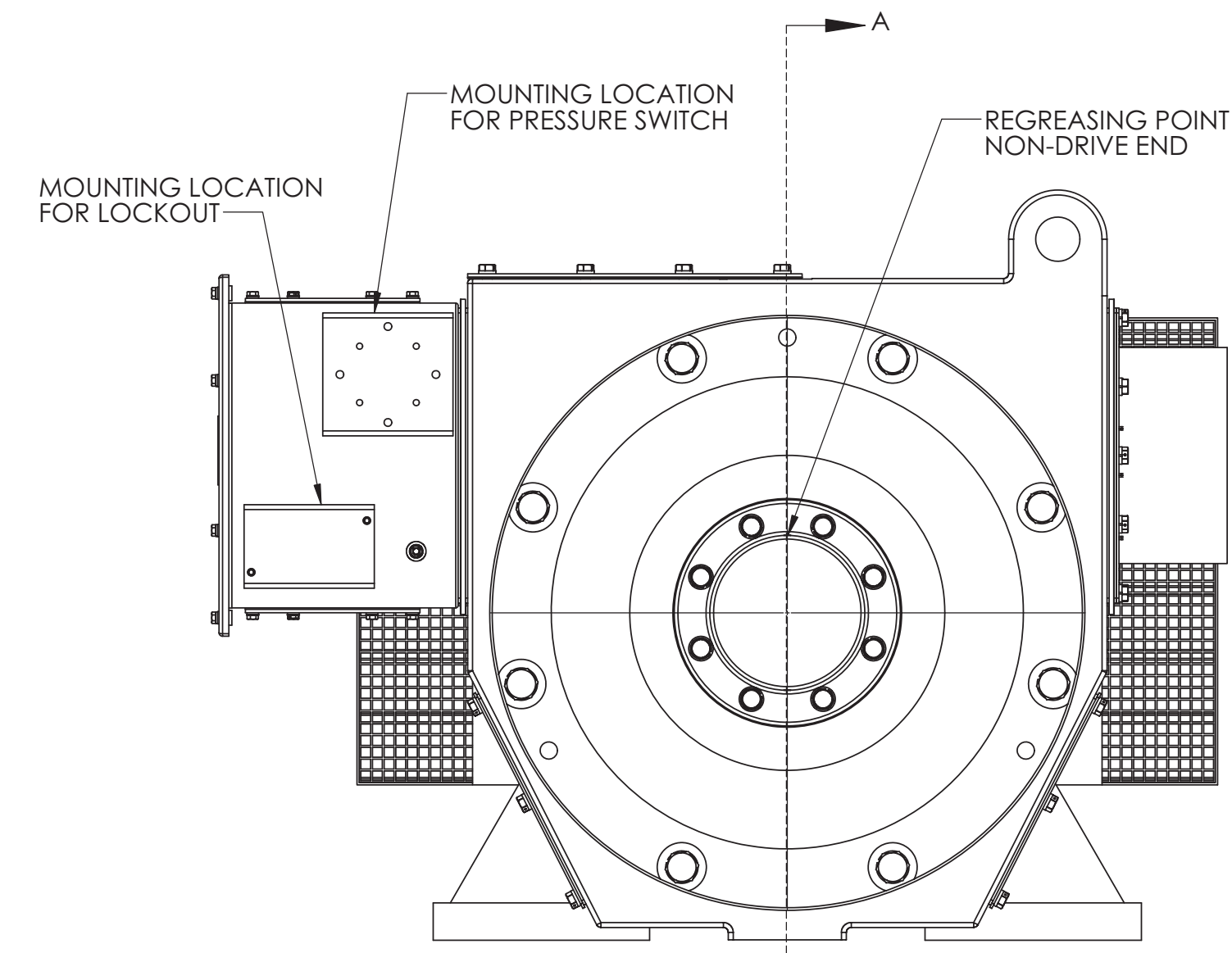
TOP VIEW



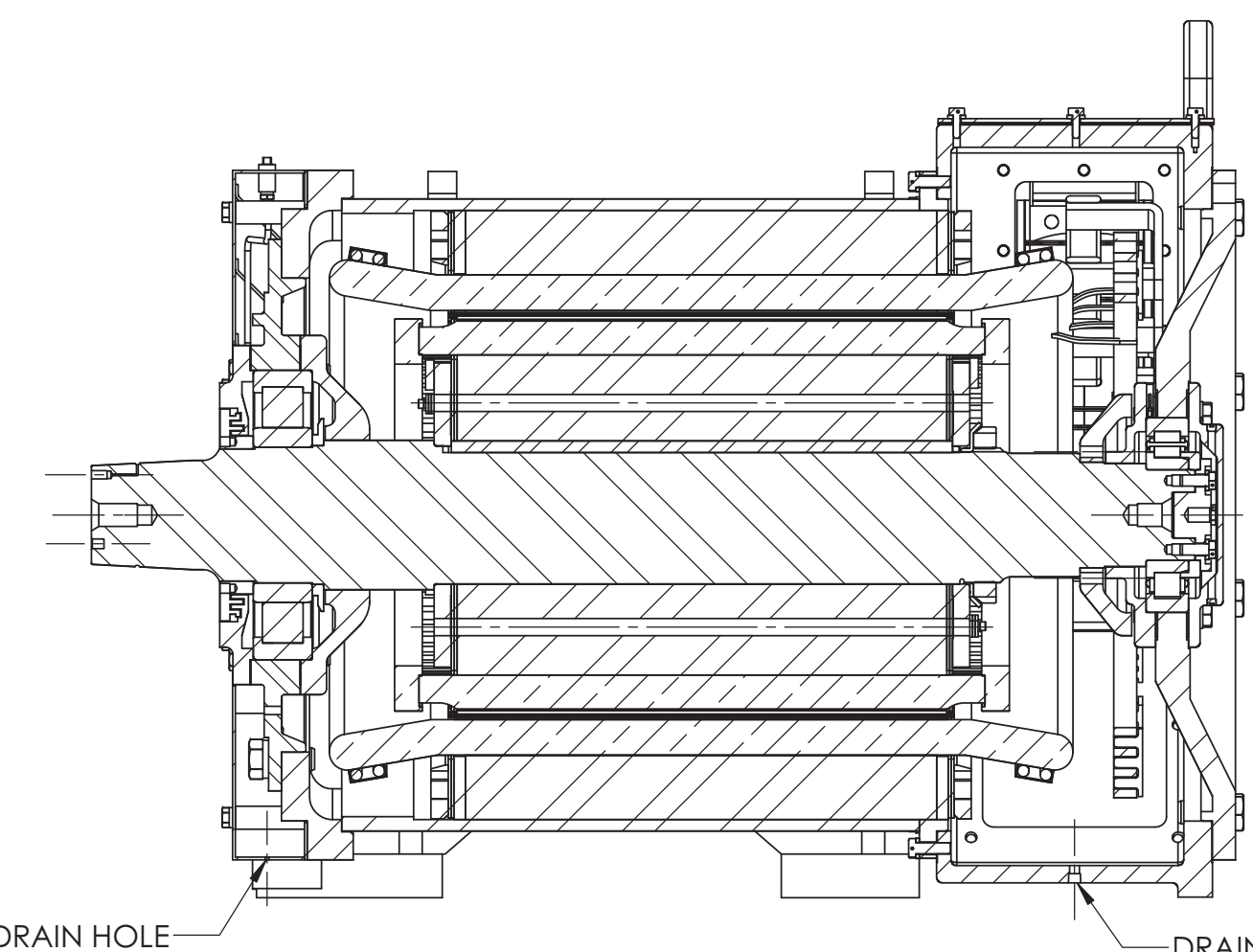
DRIVE END VIEW



SIDE VIEW



OPPOSITE DRIVE END VIEW



SECTION A-A

- NOTES:
- THIS DRAWING RELATES TO A CERTIFIED PRODUCT AND MUST NOT BE REVISED WITHOUT APPROVAL OF CERTIFIED BODY.
  - MOTOR SUPPLIED WITH IP-54/Ex e TERMINAL BOX.
  - BLOWER MOTOR IS DUCTED TO INLET LOCATION AS SHOWN.
  - ALL GUARDS, MOTOR FRAME, AND END BRACKETS ARE LOW CARBON STEEL OR ALTERNATELY DUCTILE IRON CASTING. THEREFORE NONE OF THESE COMPONENTS CONTAIN MORE THAN 6% MAGNESIUM. GUARDING INGRESS PROTECTION TO BE IP-44 ON MOTOR.
  - GASKETS ARE PROVIDED FOR BLOWER INLET PANELS AND ELECTRICAL ACCESS PANELS. GASKET MATERIAL IS SILICONE "ONE PIECE" CENTER REMOVED ONLY. MATERIAL IS NOT CUT SURROUNDING HOLE. SILICONE IS MADE BY WARCO BILTRITE #070S0564, COLOR RED, WITH TALC, WORKING TEMPERATURE RANGE -62 °C ... +232 °C
  - A LABYRINTH SEAL IS PROVIDED ON DRIVE END SIZED SUITABLY FOR THE SHAFT SIZE.
  - BEARINGS ARE ELECTRICALLY ISOLATED ON EITHER THE DRIVE END OR NON-DRIVE END.
  - SHAFT EXTENSION DIMENSIONS ARE AS SPECIFIED BY CLIENT WITH OPTION FOR DRIVE EXTENSION ON ONE OR BOTH ENDS. ENDS ARE TYPICALLY TAPERED OR STRAIGHT, KEYED UN-KEYED OR SPLINED.
  - SEE WL INSTRUCTION EOI 04-0025 FOR ASSOCIATED CERTIFIED DRAWING(S).
  - REF: IEC 60079-0 (8.1 & 17.4.3.) ENCLOSURE MUST NOT CONTAIN MORE THAN 6% MAGNESIUM.
  - BLOWER MUST BE ATEX APPROVED FOR APPROPRIATE ZONE LOCATION AND PROVIDE A MINIMUM OF 3000 CFM AT 9 IN-H<sub>2</sub>O PRESSURE.
  - BLOWER PRESSURE MUST BE MONITORED AT PORT AS INDICATED. SEE TYPICAL CABLE CONNECTION INFORMATION SHEET 333.3678 FOR ELECTRICAL CONNECTION DETAILS.
  - RE-LUBRICATION: 2.5 OZ EACH END SHELL GADUS RAIL S2 TMB GREASE EVERY 2500 HRS OR 6 MONTHS.
  - MOTOR CONSTRUCTION IN ACCORDANCE WITH EN 60079-0 AND EN 60079-7.
  - SEE MOTOR RATINGS PLATE FOR PERFORMANCE DATA.
  - SURFACE TEMPERATURE SHALL NOT EXCEED 195°F.
  - THESE MOTORS ARE EQUIPPED WITH RTD'S, THERMOSTATS OR THERMISTERS (THERMAL TRIPS). THESE DEVICES SHALL BE CONNECTED DURING OPERATION SO AS TO DISCONNECT THE POWER SUPPLY WHEN THEY ARE ACTIVATED (TRIP LEVEL AS SPECIFIED ON RATINGS PLATE). THESE RTD'S, THERMOSTATS, OR THERMISTERS (THERMAL TRIPS) SHALL BE CONNECTED TO A CONTROL CIRCUIT THAT FALLS WITHIN THE SCOPE OF A SAFETY, CONTROLLING AND REGULATING DEVICE AS DEFINE IN ARTICLE 1(2) OF EUROPEAN DIRECTIVE 94/9/EC, AND IS COVERED BY APPROPRIATE EC TYPE EXAMINATION CERTIFICATE.
  - MECHANICAL ARRANGEMENT:  
 HORIZONTAL SHAFT  
 SHAFT MATERIAL: STEEL GRADE 4140 OR 4340  
 ROTATION: REVERSIBLE  
 BALANCE: PRECISION  
 ROTOR: STAMPED OR LASER CUT STEEL  
 MIN AIR GAP (DESIGN): 1.43mm  
 MIN AIR GAP (CALCULATED): 1.40 mm.  
 END BRACKETS: CAST NODULAR IRON OR STEEL FABRICATION  
 MOTOR WEIGHT WITHOUT BLOWER AND HUB: 6000 LBS [2725 KG]  
 COOLING: SEPARATE FORCED AIR VENTILATION WITH MINIMUM AIR FLOW AS SHOWN ON MOTOR RATING PLATE  
 AUXILIARY COOLING: OPTIONAL WAFTERS ASSEMBLED IN ROTOR
  - HEATERS: ESH HZ/IGS 2 X 140W 120/240V Ex e/Ex d IIC (Ta=-40... +50°C OR BETTER) ATEX CERT. SIRA03ATEX3241U or INTERTEC SL BLOCKTHERM DLA T3, 80W 100/265V Ex d IIC (-50 TO +180 °C OR BETTER) ATEX CERT PTB 02 ATEX 1116X
  - THERMAL PROTECTION: RTD'S MINCO 1-53238PAZT125UA (OR FUNCTIONAL EQUIVALENT). A MINIMUM OF ONE PER PHASE WILL BE FITTED AND EMBEDDED IN THE WINDINGS PRIOR TO VPI.
  - THERMAL PROTECTION OPTIONS: ALL OF THE FOLLOWING FORM A PART OF AN INTRINSICALLY SAFE CIRCUIT WHICH WHEN TRIPPED IS MANUALLY RESETTABLE ONLY.  
 THERMOCOUPLES K-TYPE OR FUNCTIONAL EQUIVALENT  
 THERMOSTATS OTTER CONTROLS G6 OR FUNCTIONAL EQUIVALENT  
 THERMISTORS BOWTHORPE Y TYPE OR FUNCTIONAL EQUIVALENT
  - AUXILIARIES WHEN FITTED:  
 SHAFT MONITORING DEVICE: Ex e/Ex d Ia IIC T3 (Ta = -40 TO +50°C OR BETTER)  
 BRAKE : Ex e/Ex d IIC T3 (Ta= -40 TO +50°C OR BETTER)  
 AIR PRESSURE SWITCH: Ex e/Ex d Ia IIC T3 (Ta = -40 TO +50°C OR BETTER)  
 TERMINAL BOX Ex e/Ex d Ia IIC T3 (Ta = -40 TO +50°C OR BETTER)
  - SPECIFICATIONS:  
 QUALITY: ISO 9001 NOTIFICATION NUMBER SIRA 06 ATEX M360  
 GENERAL REQUIREMENTS: DECLARED COMPLIANT WITH (BY WARD LEONARD) EN60034 ROTATING ELECTRICAL MACHINES EN 60079-0 ELECTRICAL APPARATUS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES 60079-7 INCREASED SAFETY 'e' EN13463-1:2001 NON-ELECTRICAL EQUIPMENT PART 5: PROTECTION BY CONSTRUCTIONAL SAFETY 'C' ATEX DIRECTIVE 94/9/EC
  - THIS MOTOR SHALL BE USED WITH ONE OF THE VARIABLE SPEED DRIVE MODULAR SYSTEMS LISTED BELOW:  

MANUFACTURER	MODEL	MAXIMUM CURRENT
MI ELECTRICAL	ACD 37-6000	3000 A
CONVERTEAM	MV3000	3000 A
ABB	ACS800	3000 A
YOSOKAWA	A1000	3000 A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:  
 DECIMALS: X.X ±0.04  
 DECIMALS: X.XX ±0.02  
 DECIMALS: X.XXX ±0.005  
 ANGLES: X.X ±0.5°

THIRD ANGLE PROJECTION

MATERIAL:

FINISH:

SURFACE FINISH: 125/

BREAK ALL SHARP EDGES

DO NOT SCALE DRAWING

DRAWN BY: RJL  
 DRAWN DATE: 01JAN2013  
 CHECKED: LCG  
 APPROVED:  
 DATE:  
 APPROVAL:

**Ward Leonard** ©2013  
 Ward Leonard Electric Company Inc.  
 Thomaston, CT 06787

TITLE  
**OUTLINE DRAWING FOR ATEX  
 1150 HP FORM WOUND  
 MOTOR**

SIZE	CAGE CODE	DWG NO
D	63743	WL22B115 ATEX

SCALE: 1:8    WT: 6000 LBS EST.    SHEET 1 OF 1

THIS DRAWING IS THE PROPERTY OF WARD LEONARD ELECTRIC COMPANY INC., THOMASTON, CT. THIS DOCUMENT AND/OR THE INFORMATION CONTAINED THEREIN SHALL NOT BE DUPLICATED, USED, LOANED, OR DISCLOSED IN WHOLE OR IN PART FOR THE MANUFACTURE OR PROCUREMENT OF ANY ITEM OR ITEMS SHOWN ON OR THEREBY WITHOUT THE WRITTEN CONSENT OF WARD LEONARD ELECTRIC COMPANY INC. THIS PRINT IS LOANED SUBJECT TO RETURN ON DEMAND.