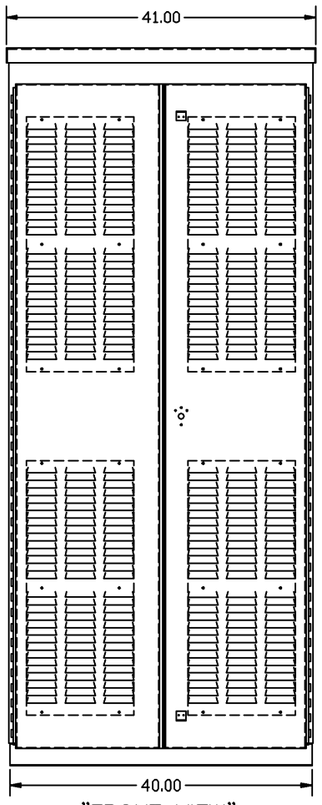
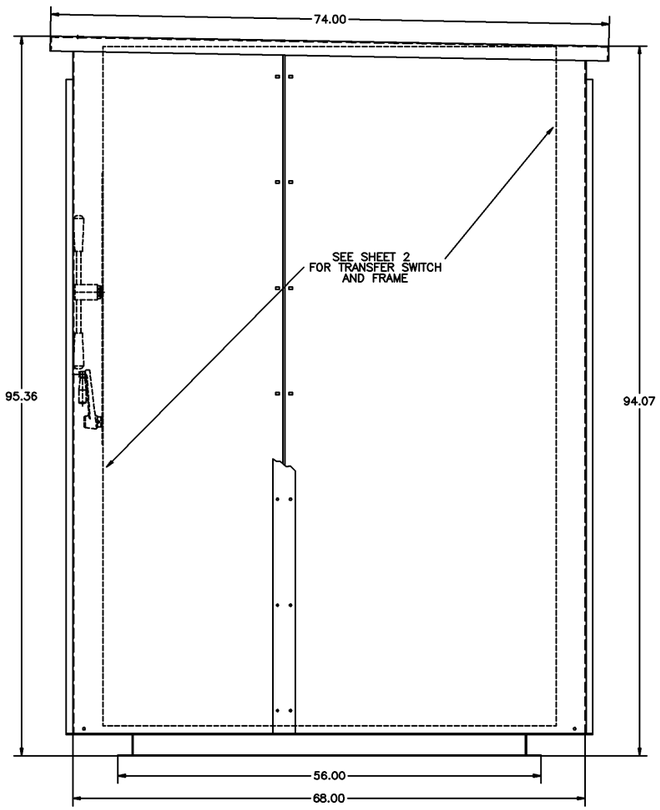
# COMPOSITE OUTLINE FOR ASCO® 7ATB/7ACTB/7ADTB, 1000–2000 AMPERE AUTOMATIC TRANSFER & BYPASS–ISOLATION SWITCHES

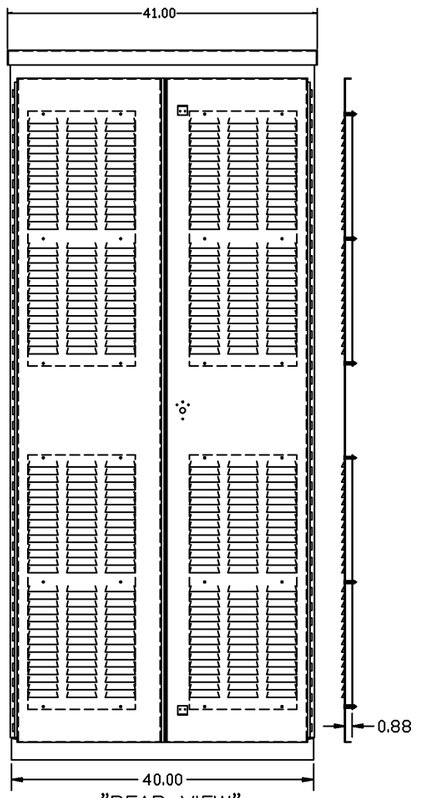
## NEMA 3R ENCLOSURE



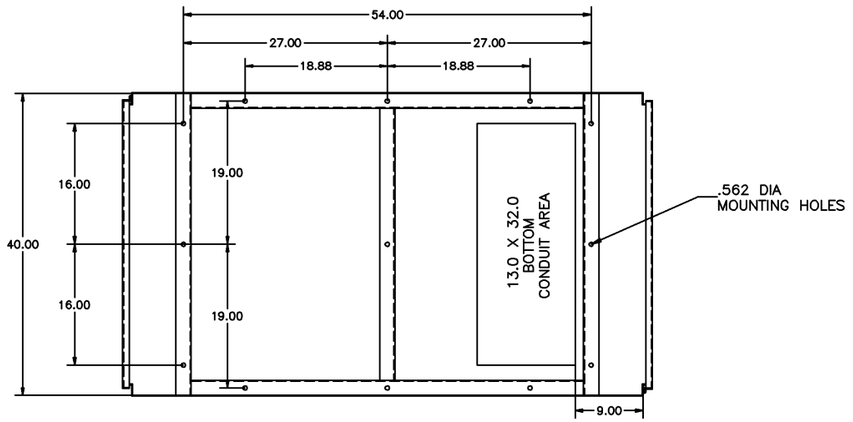

"FRONT VIEW"
EXTERIOR VIEW




"RIGHT SIDE VIEW"
EXTERIOR VIEW




"REAR VIEW"
EXTERIOR VIEW




"BOTTOM VIEW"

## GENERAL NOTES

1. TYPE 3R ENCLOSURE. FREE STANDING. FLOOR MOUNTED. CODE GAUGE FORMED FRAME CONSTRUCTION.
2. N.E.C. STD. GAUGE PAN TYPE DOORS AND REMOVABLE COVERS. ALL DOORS SUPPLIED WITH LOCKABLE HANDLES, COMMON KEYING, AND CAPTIVE SCREWS AS REQUIRED.
3. PADLOCKING PROVISIONS ARE INCLUDED:
   ISOLATION CRANK: THE TRANSFER SWITCH ISOLATION CRANK MAY BE PADLOCKED WITH THE TRANSFER SWITCH IN THE FULLY ISOLATED (DISCONNECTED) POSITION.
4. FINISH: TYPE 3R: ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
   TYPE 3RX: EXTERIOR CONSTRUCTED OF CODE GAUGE TYPE 304 STAINLESS STEEL.
5. RECOMMENDED CLEARANCES:
   FRONT: 48 INCHES; REAR: 36 INCHES
6. ALL BUS IS SILVER–PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
7. A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS AS SPECIFIED BY THE CATALOG NO. NEUTRAL TYPE;
   A. SOLID (COPPER BUS) NEUTRAL
   B. SWITCHED NEUTRAL POLE
   C. OVERLAPPING NEUTRAL POLE (NOT AVAILABLE ON 7ADTB UNITS)
8. DESIGNED FOR FRONT AND REAR ACCESS. DOORS SUPPLIED IN REAR.
9. AIR VENTS PER MANUFACTURER'S STANDARDS.
10. EXTERIOR VENTS ARE SUPPLIED WITH POLYESTER DUST FILTERS.
11. FOR SPECIFIED TRANSFER SWITCH, REFER TO OPERATOR'S MANUAL PROVIDED WITH UNIT.
12. A 20% RATED GROUND BUS IS PROVIDED AT THE BOTTOM REAR OF THE CABLE COMPARTMENT.
13. CG CENTER OF GRAVITY

## CABLING NOTES

1. ALL SIZES SUPPLIED STANDARD WITH MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF

   FOUR (4) 1/0–600 MCM CU/AL CABLE FOR 1000–1200 AMPS (SEE NOTE "E" BELOW).
   SIX (6) 1/0–750 MCM CU/AL CABLE FOR 1600–2000 AMPS (SEE NOTE "E" BELOW).

   A. LUG MATERIAL: ALUMINUM ALLOY 6061–T6 WITH ELECTRO TIN PLATED FINISH.
   B. SCREW MATERIAL: ALUMINUM ALLOY 6262–T9 WITH ELECTRO TIN PLATED FINISH.
   C. UL LISTED, CSA CERTIFIED.
   D. LUG SCREW TIGHTENING TORQUE PER UL 486B: 19 FT–LBS.
   E. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO :

   FOUR (4) 600 MCM CABLES PER TERMINAL PER NEC. FOR 1000–1200 AMPS.
   SIX (6) 600 MCM CABLES PER TERMINAL PER NEC. FOR 1600–2000 AMPS.

2. OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. UP TO FOUR (4) TWO HOLE, LONG BARREL CU CRIMP LUGS RATED FOR UP TO 600 MCM. (REFER TO CRIMP LUG INSTALLATION DATA PROVIDED WITH UNIT FOR FULL INSTALLATION DETAILS.
   D. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO FOUR (4) 600 MCM CABLES PER TERMINAL
   A. LUG MATERIAL: HIGH CONDUCTIVITY WROUGHT COPPER FINISH, ELECTRO TIN PLATED.
   B. UL LISTED, CSA CERTIFIED.
   C. LUG MOUNTING HARDWARE TIGHTENING TORQUE: (REFER TO WITHSTAND CURRENT RATING LABEL PROVIDED ON EACH TRANSFER SWITCH).

3. GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS.

   (12) 1/0 – 750 MCM CU/AL CABLE. (1000–1200 AMPS)
   (18) 1/0 – 750 MCM CU/AL CABLE. (1600–2000 AMPS)

4. CONSULT FACTORY FOR OTHER TERMINATION REQUIREMENTS.

| REV. TO SHEET | ECN NO. | BY | APP. | DATE |
|---|---|---|---|---|
| H | 231940<br>SEE ECN | LK | RN | 05/09/11 |
| G | 220390<br>SEE ECN | KK | BK | 10/22/08 |
| F | 211574<br>SEE ECN | WK | BK | 01/10/07 |
| E | 209404<br>SEE ECN | TR | WK | 7/17/06 |
| D | 207646<br>SEE ECN | TR | WK | 02/18/06 |
| C | 204610<br>SEE ECN | KH | BK | 5/25/05 |
| B | 161444<br>SEE ECN | MM | WK | 8/15/02 |
| A | 149886<br>SEE ECN | FDN | JJC | 11/98 |

PROJECT NAME:

COMPOSITE OUTLINE
NEMA 3R VENTED, G7A*TB
LAYOUT

THIRD ANGLE PROJECTION

| | BY | DATE |
|---|---|---|
| DRAWN BY | DJB | 3/97 |
| CHECKED | WJ | 3/97 |
| PROJECT APPROVAL | JJC | 3/97 |
| FINAL APPROVAL | JJC | 3/97 |

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP–1–003. FOR PLASTIC PARTS SEE MP–1–005

ASSEM. REF. NO.

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COMPUTER GENERATED DRAWING

SCALE 1:1 SIZE DS

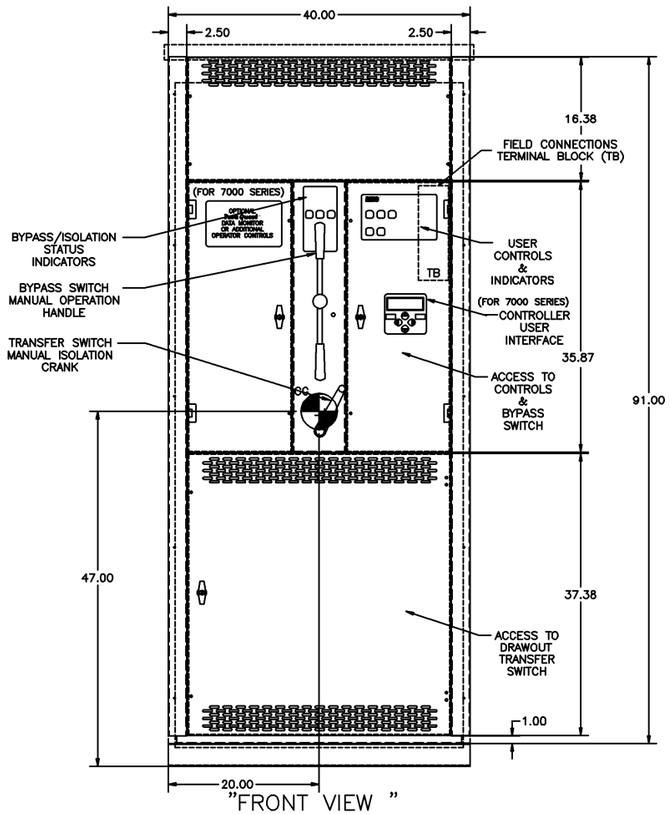
DWG. NO. 611356

DRAWING REV. H ECN NO. 231940 SHEET 1 OF 2

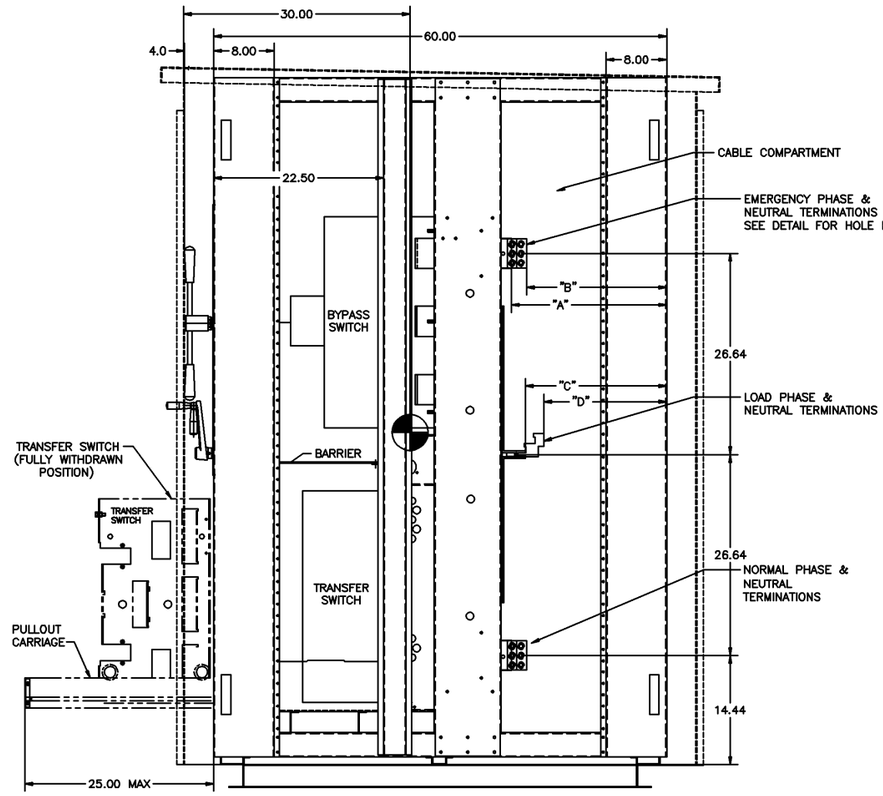
ASCO® ASCO POWER TECHNOLOGIES, L.P.
FLORHAM PARK, NEW JERSEY 07932 U.S.A.

# COMPOSITE OUTLINE FOR ASCO® 7ATB/7ACTB/7ADTB, 1000–2000 AMPERE AUTOMATIC TRANSFER & BYPASS–ISOLATION SWITCHES

| BUS LOCATION CHART | | | |
|---|---|---|---|
| | DIM. | 1000/1200 A | 1600/2000 A |
| EMER & NORM BUS TO BACK CORNER POST | "A" | 20.30 | 20.80 |
| LOAD BUS TO BACK CORNER POST | "C" | 19.00 | 18.75 |
| | | | |
| EMER & NORM LUG TO BACK CORNER POST | "B" | 18.30 | 18.30 |
| LOAD LUG TO BACK CORNER POST | "D" | 16.50 | 16.25 |



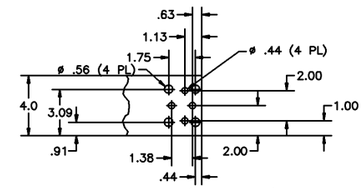

"FRONT VIEW "
INTERIOR VIEW



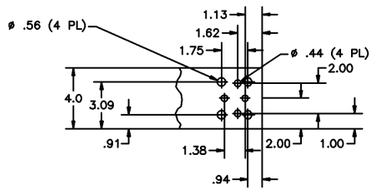

(MAXIMUM DRAWOUT CARRIAGE EXTENSION)

NOTE:
TRANSFER SWITCH CAN BE IN FULLY ISOLATED (DISCONNECTED)

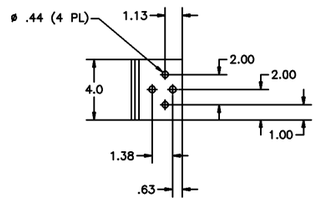
"RIGHT SIDE VIEW "
INTERIOR VIEW




DETAIL (E & N)
1600/2000 A AVAILABLE CONTACT AREA




DETAIL (E & N)
1000/1200 A AVAILABLE CONTACT AREA




DETAIL (LOAD)
1000/2000 A AVAILABLE CONTACT AREA

| REV. | REV. TO SHEET | ECN NO. | BY | APP. | DATE |
|---|---|---|---|---|---|
| H | | 231940 | LK | RN | 05/09/11 |
| | | SEE ECN | | | |
| G | | 220390 | KK | BK | 10/22/08 |
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NEMA 3R VENTED, G7A*TB LAYOUT

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MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055

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