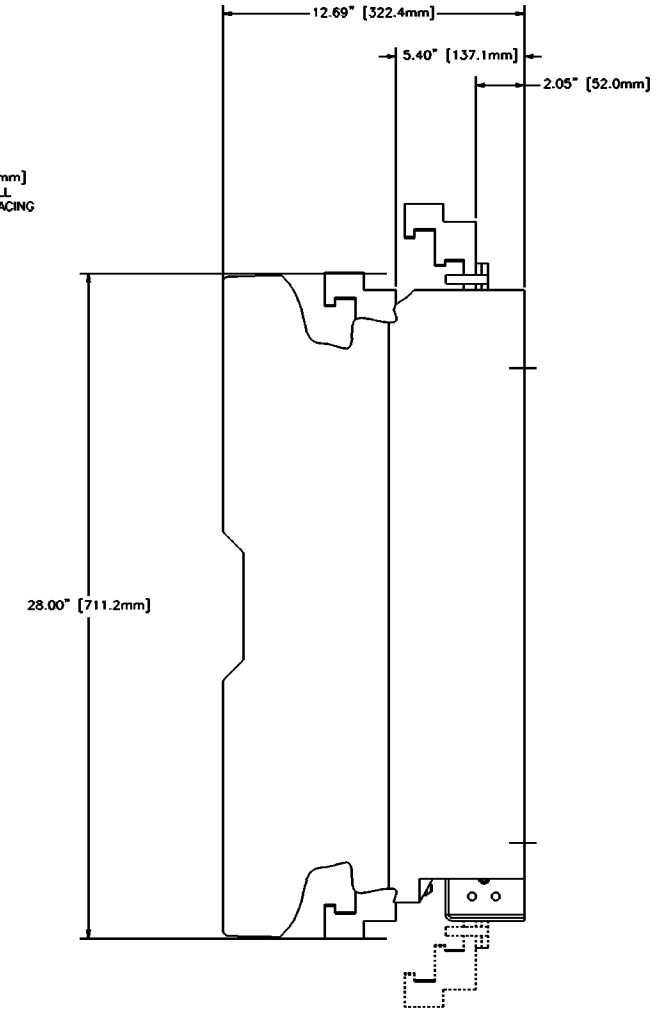
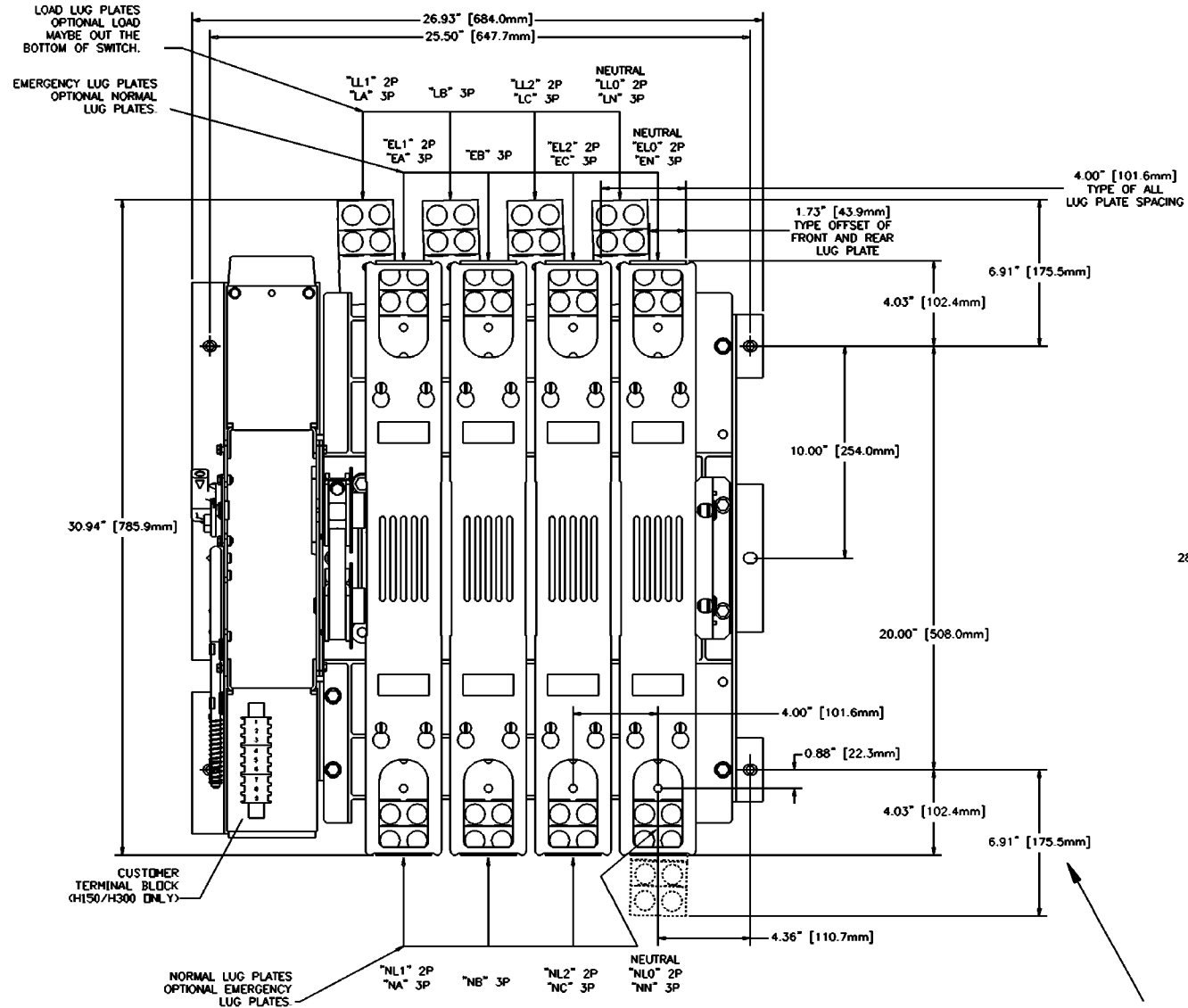


# OUTLINE & MOUNTING FOR ASCO SERIES H150, H300, H386 TRANSFER SWITCHES RATED 600-1200 AMPS

## GENERAL NOTES

1. THE STANDARD SWITCH CONFIGURATION IS FOR TOP EMERGENCY & LOAD AND BOTTOM NORMAL.
2. NEUTRAL CONFIGURATIONS:  
 H150/H300—A FULL RATED SOLID (COPPER BUS) NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS PROVIDED STANDARD. OPTIONALLY A SWITCHED NEUTRAL POLE MAY BE PROVIDED AS SPECIFIED BY THE CATALOG NO.  
 (B) INDICATES A SWITCHED NEUTRAL POLE.  
 H386—AN OPTIONAL FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD MAY BE PROVIDED. WHEN EQUIPPED 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
3. THE STANDARD MECHANICAL (SCREW TYPE) AL/CU TERMINAL LUGS ARE SHOWN FOR REFERENCE (800-1200).
4. SWITCH AND SOLID NEUTRAL POLES ARE SHOWN FOR REFERENCE.
5. WHEN INSTALLING CONDUCTORS, CONNECT TO SIMILARLY MARKED PHASES OF NORMAL, EMERGENCY & LOAD.
6. ALL INTERNAL CONNECTIONS ARE MADE AT FACTORY.
7. MAINTAIN ELECTRICAL CLEARANCE OF 1 INCH (25.4 mm) BETWEEN LIVE METAL PARTS AND GROUNDED METAL.
8. WHEN MOUNTING THE TRANSFER SWITCH IN THE ENCLOSURE, THE CONTROL PANEL(S) AND OPERATOR CONTROLS SHOULD BE MOUNTED ON THE INSIDE, REAR SURFACE OF THE DOOR. 6 IN. MIN. DEPTH TO TRANSFER SWITCH FOR CONTROLS IS REQUIRED.
9. THE CONTROL PANEL(S) IS CONNECTED TO THE TRANSFER SWITCH BY A HARNESS WITH A QUICK DISCONNECT PLUG(S). THE HARNESS EXITS THE TRANSFER SWITCH ON THE RIGHT SIDE. CONSULT FACTORY FOR EXTENSION HARNESSES.
10. FOR TYPE 1 ENCLOSURE SEE DETAIL A -1 FOR CUTOUT DATA.  
 FOR TYPE 3R, 4, & 12 ENCLOSURE SEE DETAIL A -2 FOR CUTOUT DATA.  
 GASKETS AND BEZELS ARE PROVIDED FOR TYPE 3R, 4, & 12 ENCLOSURE.

## 600 THRU 1200 AMPS



SIZE	CABLE ACCOMMODATIONS (PER PHASE & NEUTRAL)
600	SCREW TYPE (STANDARD) - (2) #2 - 600 MCM AL/CU
800-1200	SCREW TYPE (STANDARD) - (4) 1/0 - 750 MCM AL/CU ( SHOWN )

NOTE: CONSULT FACTORY FOR OTHER CABLING & TERMINATION REQUIREMENTS.

## CABLING NOTES

1. ALL SIZES SUPPLIED STANDARD WITH MECHANICAL (SCREW TYPE) LUGS. (SEE AMP SIZE 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.
2. OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. (SEE AMP SIZE BELOW)  
 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. CONSULT FACTORY FOR OTHER TERMINATION REQUIREMENTS.

## NOTES 600 AMP SWITCHES

1. SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF TWO (2) #2 -600MCM CU/AL CABLE

2. OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. UP TO TWO (2) TWO HOLE, LONG BARREL CU CRIMP LUGS RATED FOR UP TO 600 MCM.

## NOTES 800-1200 AMP SWITCHES

1. SUPPLIED WITH STANDARD 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 -750MCM CU/AL CABLE

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.

### MINIMUM REQUIRED ENCLOSURE SIZE INCH (mm)

SWITCH RATING (AMPS)	HEIGHT	WIDTH	DEPTH
600,800,1000	72 (1828.8)	34 (863.6) *	20 (508)
1200	87 (2209.8)	38 (965.2)	23 (584.2)

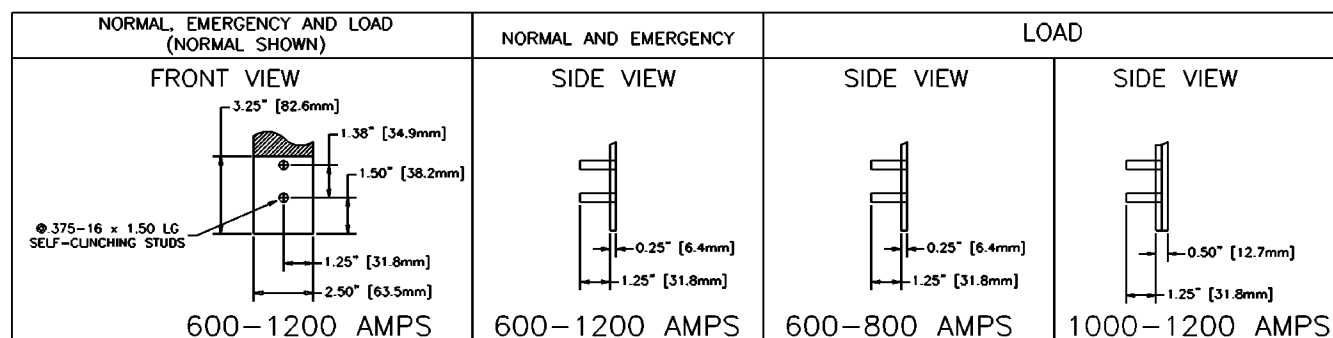
NOTE: \* = WIDTH MAYBE 30 (762) IF NO CABLES ARE TO BE RUN ALONG THE SIDE OF TRANSFER SWITCH.  
 "1200 AMPS" NEEDS VENTILATION TOP AND BOTTOM.

FRONT VIEW

SIDE VIEW

MAXIMUM BUS BAR BOLTING SURFACE (PER PHASE) 3.25" [82,6mm] x 2.50" [63,5mm]

### BUS TERMINATION DETAIL



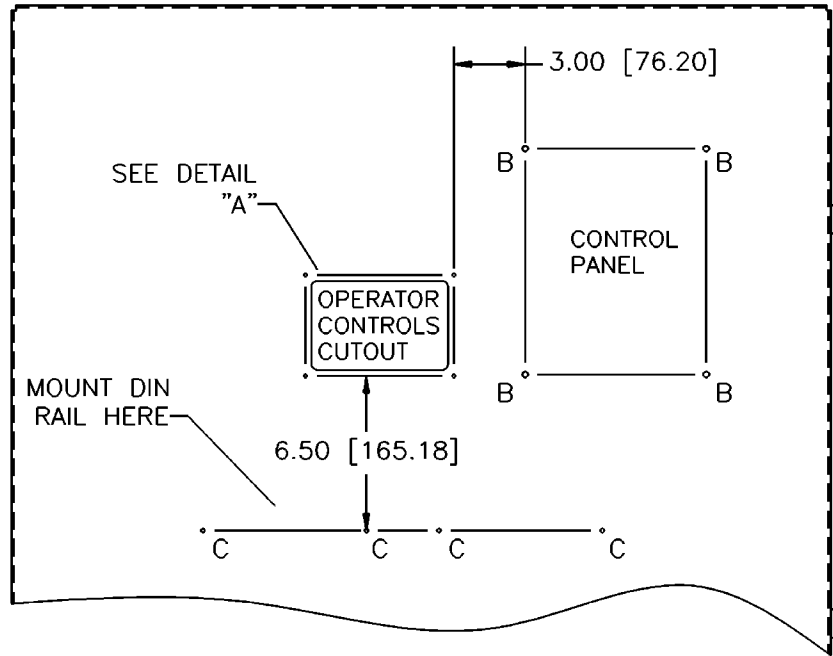
PROJECT NAME: <b>COMPOSITE OUTLINE</b>		DATE: 5/24/01	
H150/H300/H386 OPEN TYPE		SCALE: AS SHOWN	
600-1200 AMP		ACAD FILE A4	
DRAWN BY: BWM		CHECKED BY: BWM	
DATE: 5/24/01		DATE: 5/24/01	
DESIGNING PERSONNEL: BK		SCALE: DS713208-004	
FINAL APPROVAL:		ASCO POWER TECHNOLOGIES, L.P.	
ASCO POWER TECHNOLOGIES, L.P.		FLORHAM PARK, NEW JERSEY 07932 U.S.A.	
CHANGE LETTER: D		ECON. NO.: 158984	
ECON. NO.: 158984		SHEET 1 OF 2	

D	158984	BK	BK	10/01
SEE ECH				
C	158466	BWM	WK	8/16/01
SEE ECH				
B	158327	BWM	WK	7/27/01
SEE ECH				
A	158035	BWM	WK	7/23/01
SEE ECH				
-	157810	BWM	BK	5/24/01
ISSUE				

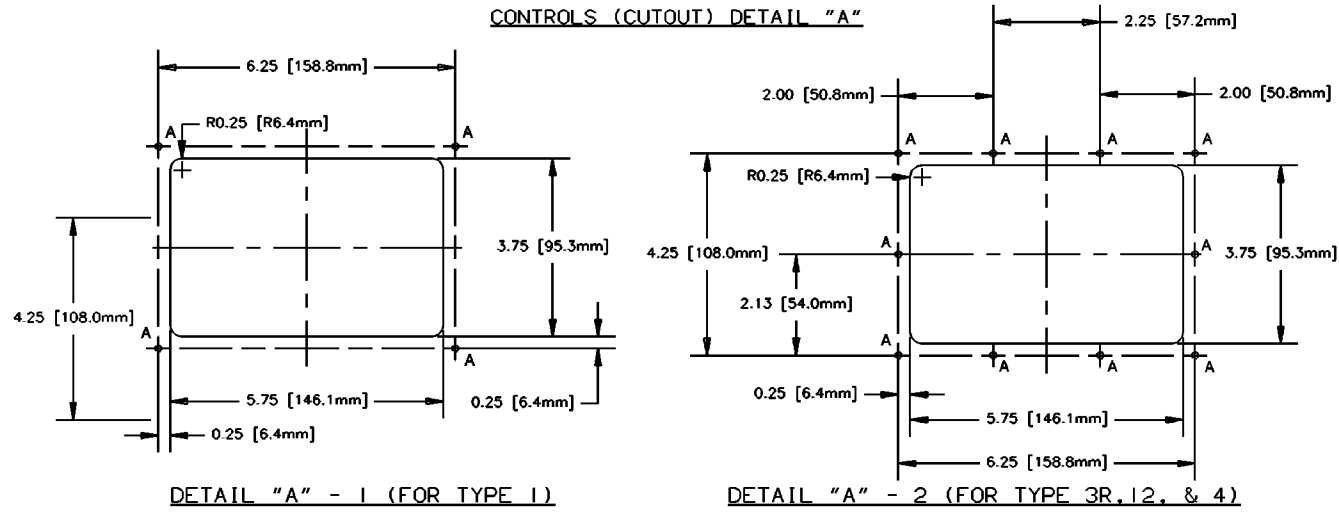
OUTLINE & MOUNTING FOR **ASCO** SERIES H150, H300, H386 TRANSFER SWITCHES RATED 600-1200 AMPERES

CONTROL PANEL & CONTROLS MOUNTING

CONTROL PANEL & CONTROLS MOUNTING DATA



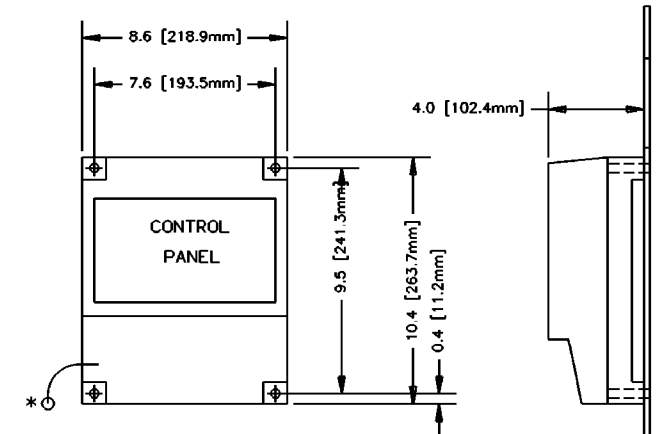
FRONT VIEW



- NOTES:
- CUTOUT DETAIL "A"-1 IS FOR TYPE 1 ENCLOSURE.
  - CUTOUT DETAIL "A"-2 IS FOR TYPE 3R, TYPE 12 AND TYPE 4 ENCLOSURE.

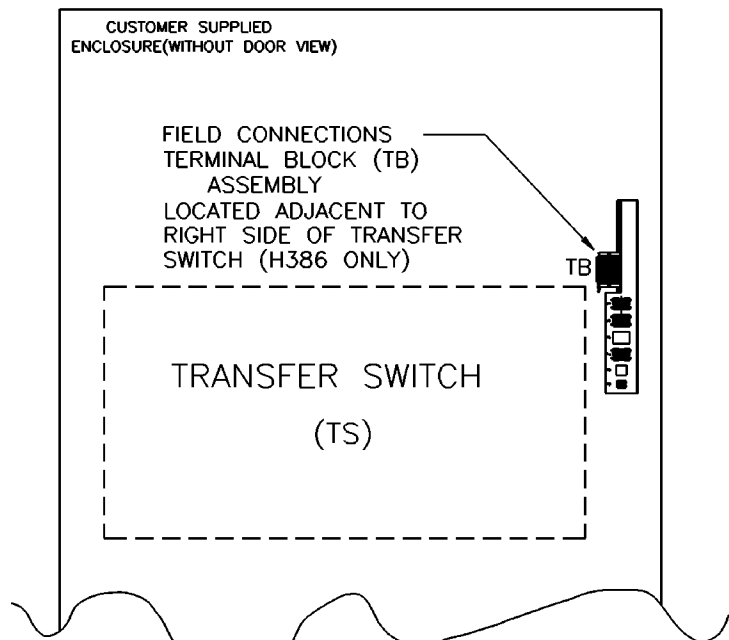
- SUGGESTED MOUNTING
- HOLE 'A' -  $\frac{0.137}{0.140}$  DIA. FOR  
0.138-32 X 0.625 LONG PENN. ENGINEERING &  
MFG. CO. SELF CLINCHING CAPTIVE STUD NO.  
FH-632-8-Z1

CONTROL PANEL MOUNTING DATA

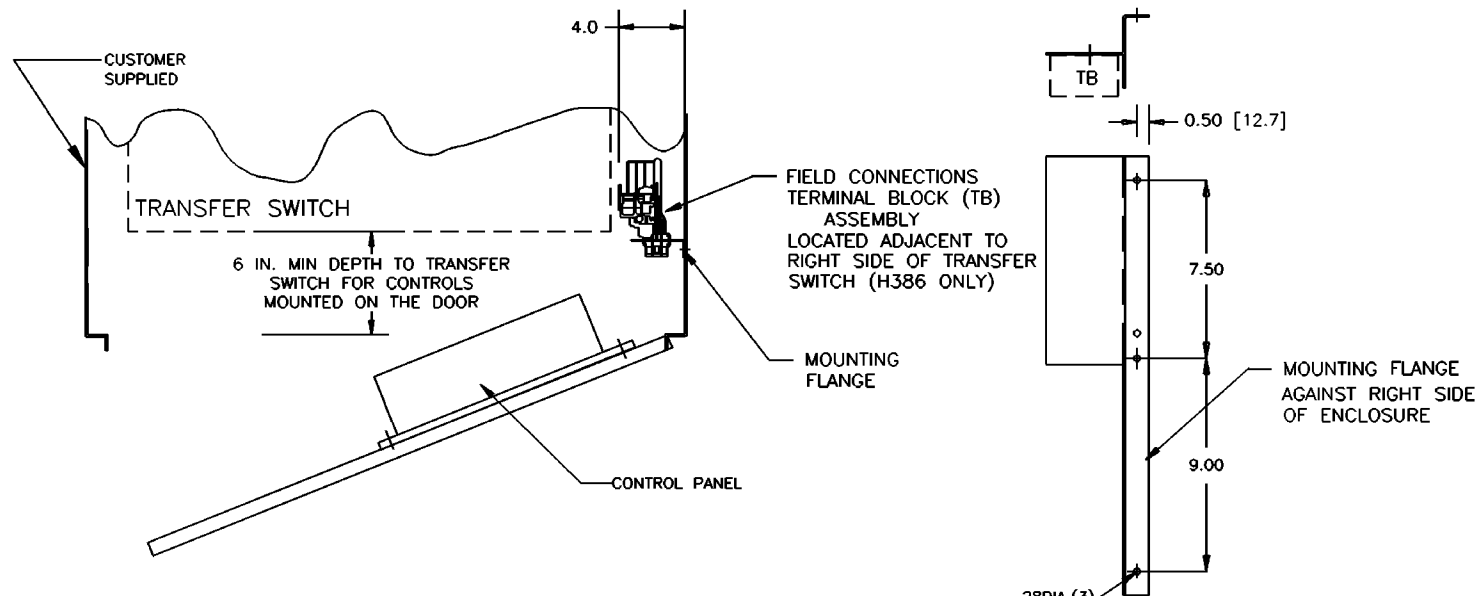


- \*CAPTURE GROUNDING STRAP AT LOWER LEFT CORNER OF CONTROL PANEL WITH MOUNTING HARDWARE ON MOUNTING STUD.
- SUGGESTED MOUNTING
- HOLE B -  $\frac{0.249}{0.252}$  DIA. FOR 0.250-20 X 1.50  
LONG PENN CAPTIVE STUD FH-0420-24-Z1
- HOLE C -  $\frac{0.163}{0.166}$  DIA. FOR 0.164-32 X 0.313  
LONG PENN CAPTIVE STUD FH-832-5-Z1

MOUNTING OF FIELD TERMINAL BLOCK ASSEMBLY (TB) (H386 ONLY)



FRONT VIEW



TOP VIEW

FIELD TERMINAL BLOCK (H386 ONLY) (TB) BRACKET MOUNTING DETAIL

PROJECT NAME:		COMPOSITE OUTLINE		H150/H300/H386 OPEN TYPE		600-1200 AMP	
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-3-005.				ASSEMB. REF. NO.	SCALE
BY	DATE	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				ASSEMB. REF. NO.	SCALE
CHECKED	DATE	ASCO POWER TECHNOLOGIES, L.P.				ASSEMB. REF. NO.	SCALE
DESIGNING	DATE	FLORHAM PARK, NEW JERSEY 07932 U.S.A.				ASSEMB. REF. NO.	SCALE
FINAL APPROVAL	DATE	ASCO				ASSEMB. REF. NO.	SCALE
CHANGE LETTER		ECH. NO.		BY		APP. DATE	
SUBSIDIARY DISTRIBUTION		ACAD		FILE		A4	
COMPUTER GENERATED DRAWING		DS713208-004		SHEET 2 OF 2			