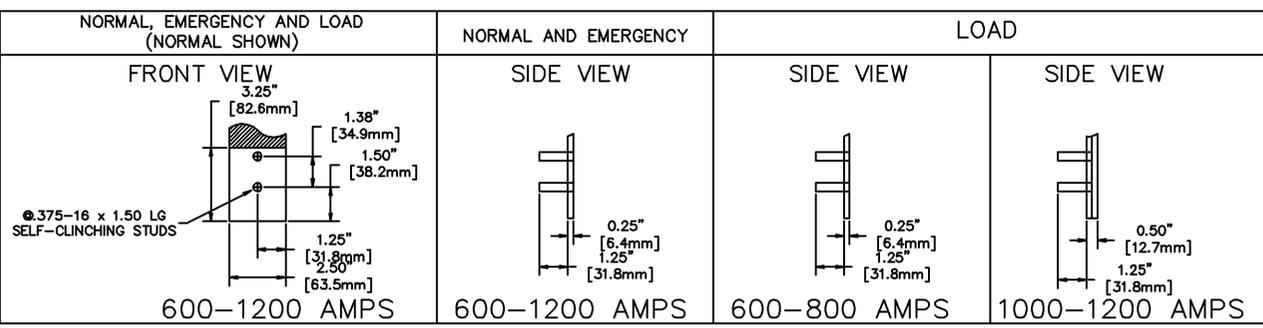


OUTLINE FOR ASCO 4000 & 7000 SERIES 600-1200 AMPERE "H" FRAME (ATS,ACTS,ADTS) FRONT CONNECTED TRANSFER SWITCHES OPEN TYPE

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

BUS TERMINATION DETAIL



APPROXIMATE SHIPPING WEIGHT, LBS (KG)

SWITCH RATING (AMPS)	POLES	WEIGHTS LB (KG)
600, 800	2	119 (54)
600, 800	3	142 (64)
(400A 7ADTS) 600, 800	4	165 (75)
1000, 1200	2	131 (59)
1000, 1200	3	160 (73)
1000, 1200	4	189 (86)

GENERAL NOTES

- THE STANDARD SWITCH CONFIGURATION IS FOR TOP EMERGENCY & LOAD AND BOTTOM NORMAL. OPTIONALLY, THE SWITCH MAY BE SUPPLIED WITH REVERSE SOURCES AND/OR BOTTOM LOAD. (REFER TO THE WIRING DIAGRAM FURNISHED WITH EACH TRANSFER SWITCH TO DETERMINE TERMINATION POSITIONS).
- NEUTRAL CONFIGURATIONS:
 AN OPTIONAL FULL RATED NEUTRAL CONFIGURATION FOR EACH SOURCE AND THE LOAD MAY BE PROVIDED. WHEN EQUIPPED IT IS IN ONE OF THE FOLLOWING FORMATS AS SPECIFIED BY THE CATALOG NUMBER NO. NEUTRAL TYPE:
 (A) SOLID (COPPER BUS) NEUTRAL
 (B) SWITCHED NEUTRAL POLE
 (C) OVERLAPPING NEUTRAL POLE (NOT AVAILABLE ON ACTS/ADTS UNITS)
- THE STANDARD MECHANICAL (SCREW TYPE) AL/CU TERMINAL LUGS ARE SHOWN FOR REFERENCE (800-1200).
- SWITCH NEUTRAL POLE IS SHOWN FOR REFERENCE.
- WHEN INSTALLING CONDUCTORS, CONNECT TO SIMILARLY MARKED PHASES OF NORMAL, EMERGENCY & LOAD.
- ALL INTERNAL CONNECTIONS ARE MADE AT FACTORY.
- MAINTAIN ELECTRICAL CLEARANCE OF 1 INCH (25.4 mm) BETWEEN LIVE METAL PARTS AND GROUNDED METAL.
- 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.
- 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.
- OPTIONAL ACCESSORY ADD-ON PANELS.
- FOR TYPE 1 ENCLOSURE SEE DETAIL A -1 AND DETAIL B -1 FOR CUTOUT DATA. FOR TYPE 3R, 4, & 12 ENCLOSURE SEE DETAIL A -2 & DETAIL B -2 FOR CUTOUT DATA. GASKETS AND BEZELS ARE PROVIDED FOR TYPE 3R, 4, & 12 ENCLOSURE.
- CUSTOMER TERMINAL BLOCKS:
 FOR ALL 7000 SERIES AND 4000 SERIES ACTS, ADTS, NCTS, & NDTs UNITS THE TB WILL BE MOUNTED ON THE UPPER RIGHT INSIDE OF ENCLOSURE AS INDICATED ON THE NEXT PAGE. FOR 4000 SERIES ATs AND NTS UNITS TB WILL BE MOUNTED ON THE TRANSFER SWITCH FRAME AS INDICATED ON THIS PAGE.

SERIES	CATALOG PREFIX
4000	4ATS
	4NTS
	4ACTS
	4NCTS
7000	4ADTS
	4NDTS
	7ATS
	7NCTS
	7ADTS
	7NDTS

SIZE	CABLE ACCOMMODATIONS (PER PHASE & NEUTRAL)
(400A 7ADTS)	SCREW TYPE (STANDARD) - (3) #6 - 250 MCM AL/CU
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

- 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.
- 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).
 D. SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)
- CONSULT FACTORY FOR OTHER TERMINATION REQUIREMENTS.

NOTES 600 AMP SWITCHES

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

NOTES 800-1200 AMP SWITCHES

- 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.
- OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. UP TO FOUR (4) TWO HOLE, LONG BARREL CU CRIMP LUGS RATED FOR UP TO 600MCM.

NOTES 400A (ADTS "B3" 4 POLE ONLY)

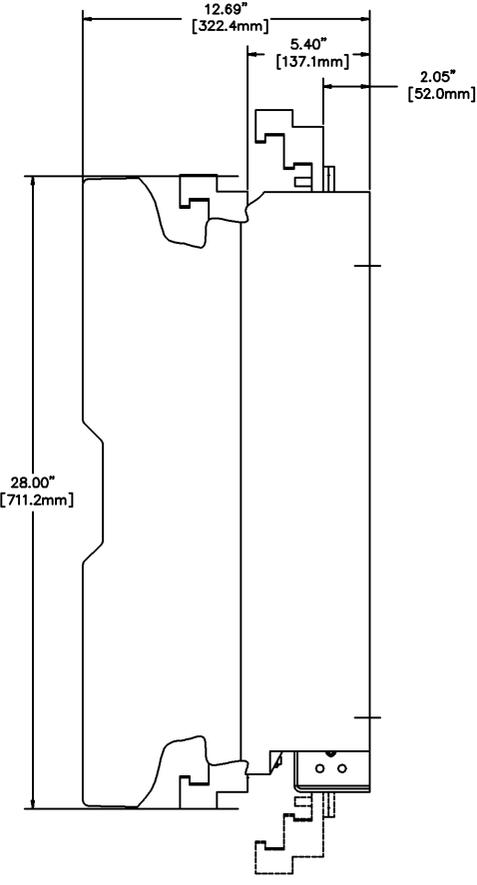
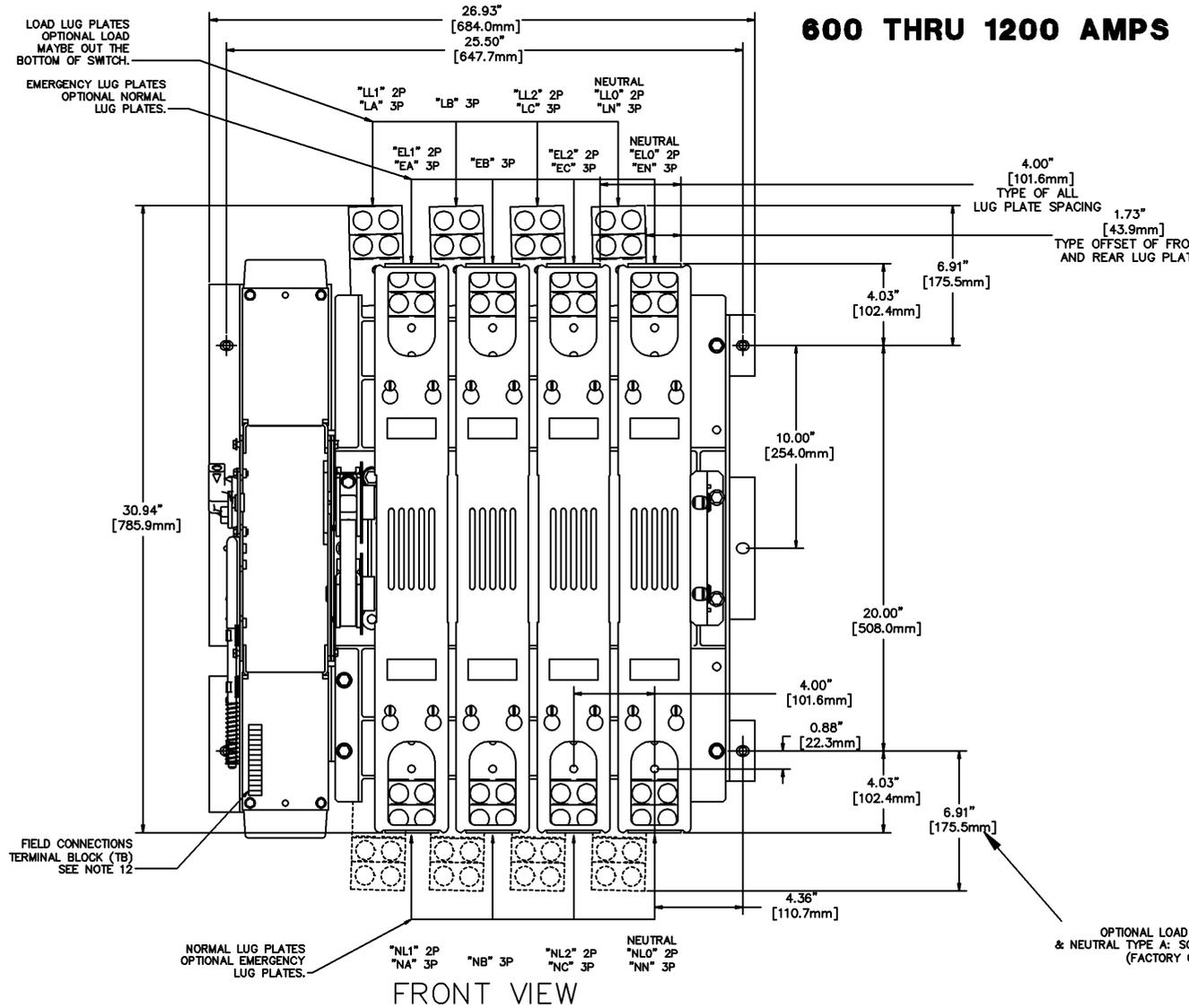
- GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS:
 (3) #6 - 250MCM CU/AL CABLE CONNECTIONS.

MINIMUM REQUIRED ENCLOSURE SIZE INCH (mm)

SWITCH RATING (AMPS)	HEIGHT	WIDTH	DEPTH
(400A 7ADTS) 600,800,1000	72 (1828.8)	34 (863.6)*	20 (508)
1200	87 (2209.8)	38 (965.2)	23 (584.2)

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

NOTE: 1200 AMP T/S REQUIRES MIN. 96IN² OF VENTILATION. 48IN² TOP AND BOTTOM. VENTILATION SHOULD BE PLACED ON FRONT AND REAR OF ENCLOSURE UNLESS VENTILATION IS IMPEDED ON THE REAR. THEN ALL VENTILATION MUST BE PROVIDED ON FRONT OF ENCLOSURE.



PROJECT NAME: OUTLINE 4000/7000 SERIES	CHANGE LETTER:	EDN NO.:	BY:	APP.:	DATE:
DRIVEN BY: DJB	DATE: 9/1/01	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005	ASSEMB. REF. NO.:	SUBSIDIARY DISTRIBUTION	
CHECKED: BWM	DATE: 9/1/01	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE: 1:1	ACAD	FILE
FINAL APPROVAL:			COMPUTER GENERATED DRAWING		
			DS 713200-002		
			ASCO	ASCO POWER TECHNOLOGIES, LP.	FLORHAM PARK, NEW JERSEY 07932 U.S.A.

