

OUTLINE FOR ASCO 7000 SERIES 1000-2000 AMPERE "G" FRAME (ATS,NTS) REAR CONNECTED TRANSFER SWITCHES OPEN TYPE

GENERAL NOTES

1. REAR CONNECTED TRANSFER SWITCH
THE STANDARD SWITCH CONFIGURATION IS FOR TOP LUGS EMERGENCY CENTER LUGS LOAD AND BOTTOM LUGS NORMAL.
(REFER TO THE WIRING DIAGRAM FURNISHED WITH EACH TRANSFER SWITCH TO DETERMINE TERMINATION POSITIONS).
- FRONT CONNECTED TRANSFER SWITCH
THE STANDARD SWITCH CONFIGURATION IS FOR TOP EMERGENCY & LOAD AND BOTTOM NORMAL.
OPTIONALLY, THE SWITCH MAY BE SUPPLIED WITH BOTTOM ENTRY LOAD.
(REFER TO THE WIRING DIAGRAM FURNISHED WITH EACH TRANSFER SWITCH TO DETERMINE TERMINATION POSITIONS).
2. 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)
3. THE STANDARD MECHANICAL (SCREW TYPE) AL/CU TERMINAL LUGS ARE SHOWN FOR REFERENCE.
4. SWITCH NEUTRAL POLE IS 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. OPTIONAL ACCESSORY ADD-ON PANELS.
11. 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.
12. CUSTOMER TERMINAL BLOCKS:
FOR ALL 7000 SERIES UNITS THE TB WILL BE MOUNTED ON THE UPPER RIGHT INSIDE OF ENCLOSURE AS INDICATED ON THE LAST PAGE.
FOR 4000 SERIES UNITS TB WILL BE MOUNTED ON THE TRANSFER SWITCH FRAME AS INDICATED ON THIS AND NEXT PAGE.

SERIES	CATALOG PREFIX
7000	7ATS
	7NTS

SIZE	CABLE ACCOMMODATIONS (PER PHASE & NEUTRAL)
1000-1200	SCREW TYPE (STANDARD)- (4) 1/0 - 750 MCM AL/CU
1600-2000	SCREW TYPE (STANDARD)- (6) 1/0 - 750 MCM AL/CU

NOTE : CONSULT FACTORY FOR OTHER CABLING & TERMINATION REQUIREMENTS.

AMP SIZE	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
1000 & 1200	33.27 845.1	28.00 711.2	24.00 609.6	31.75 806.5	6.88 174.8	—	8.20 208.3	.68 17.27	1.75 44.45	1.09 27.69
1600 & 2000	33.27 845.1	28.00 711.2	24.00 609.6	31.75 806.5	6.88 174.8	—	8.20 208.3	.68 17.27	1.75 44.45	1.09 27.69

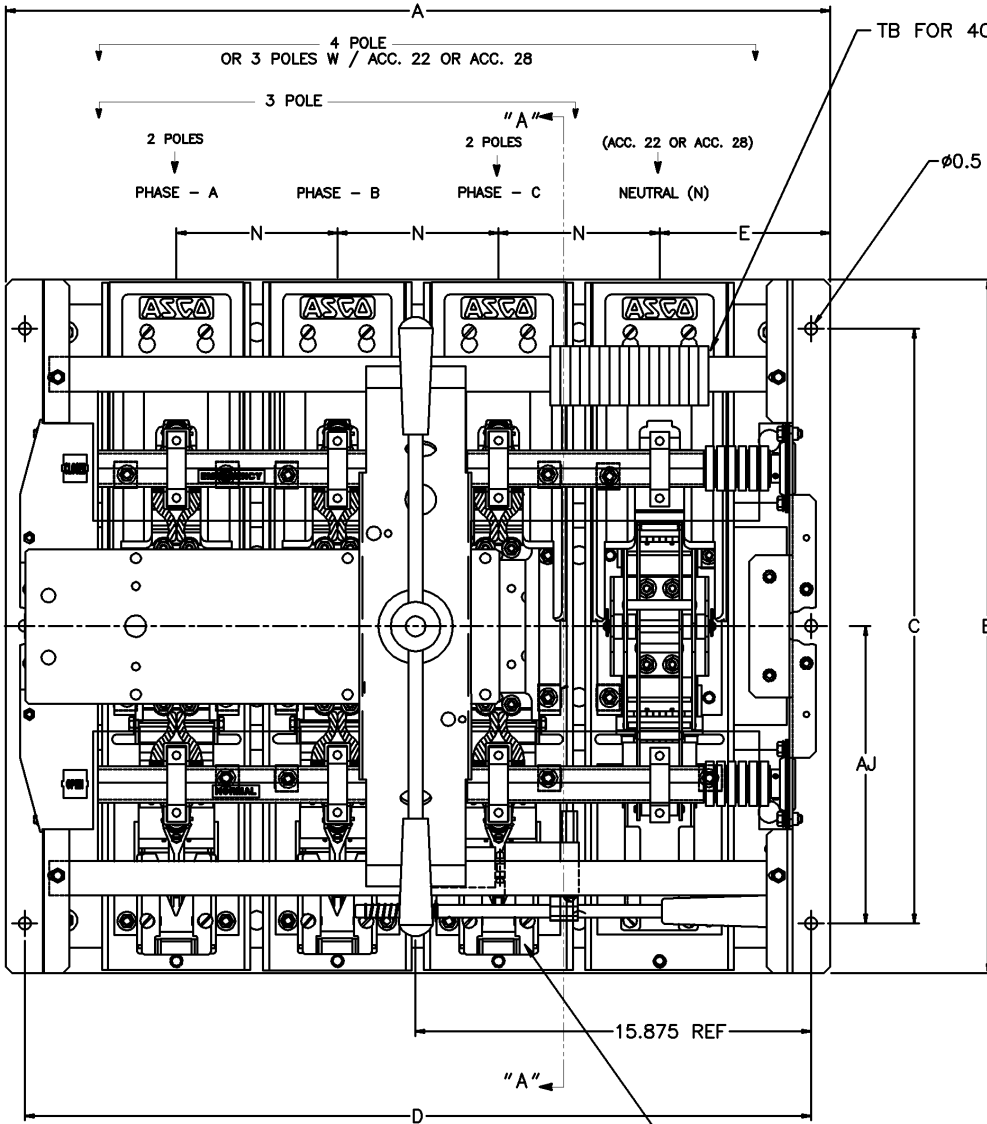
AMP SIZE	DIMENSIONS									
	L	M	N	P	Q	R	S	T	U	V
1000 & 1200	1.37 34.80	9.00 228.6	6.50 165.1	2.18 55.37	—	2.00 50.8	14.9 378.5	—	—	18.05 458.5
1600 & 2000	1.37 34.80	9.00 228.6	6.50 165.1	2.18 55.37	—	2.00 50.8	14.9 378.5	—	—	18.05 458.5

AMP SIZE	DIMENSIONS									
	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1000 & 1200	12.36 313.9	—	—	6.95 176.5	5.69 144.5	—	—	22.25 565.2	—	—
1600 & 2000	12.36 313.9	—	—	6.90 175.3	5.69 144.5	—	—	22.25 565.2	—	—

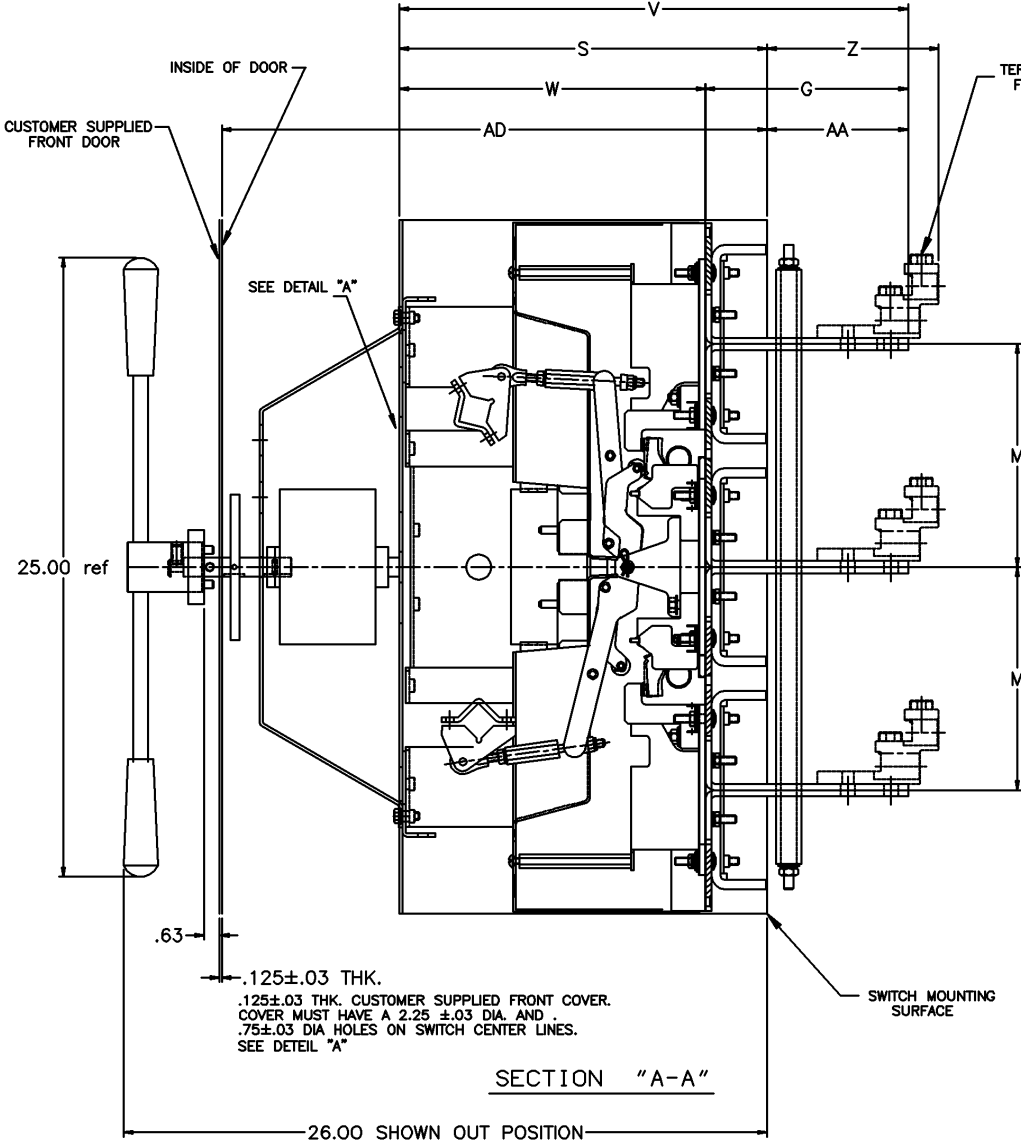
AMP SIZE	DIMENSIONS									
	AG	AH	AJ	—	—	—	—	—	—	—
1000 & 1200	—	—	12.00 304.8	—	—	—	—	—	—	—
1600 & 2000	1.50 38.10	2.00 50.8	12.00 304.8	—	—	—	—	—	—	—

MINIMUM REQUIRED ENCLOSURE SIZE INCH (mm)			
SWITCH RATING (AMPS)	HEIGHT	WIDTH	DEPTH
1000 & 2000	87 (2210)	38 (965)	25 (635)

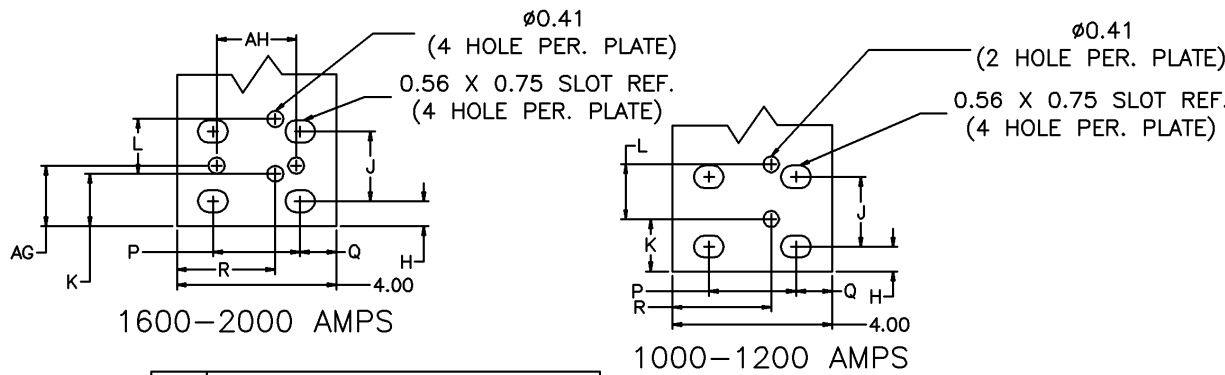
NOTE: "2000 AMPS" NEEDS VENTILATION TOP AND BOTTOM.



FRONT VIEW

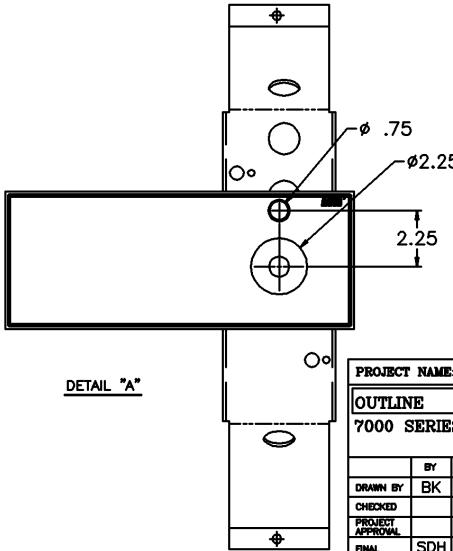


SIDE VIEW



AMP SIZE	BUS BAR PER PHASE BOLTING SURFACE
1000 THRU 2000	0.25 X 4.00 IN, 6.4 X 101.6 MM

BUS TERMINATION DETAIL (TYP.)



PROJECT NAME:		OUTLINE		MOUNTING	
7000 SERIES					
DRAWN BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.	ASSEMBLY REF. NO.	COMPUTER GENERATED DRAWING	
CHECKED	DATE	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE	SIZE
PROJECT APPROVAL	DATE			1:1	DS
FINAL APPROVAL	DATE			619590-001	
		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		SHEET 1 OF 3	

□

E

A

BUS TERMINATION DETAIL (TYP.)

Technical drawing of a detail of a vertical member, labeled "DETAIL A". The drawing shows a cross-section of a vertical member with a horizontal flange. The flange has a thickness of 2.25 inches. The vertical member has a diameter of 0.75 inches. The drawing includes a title block with the following information:

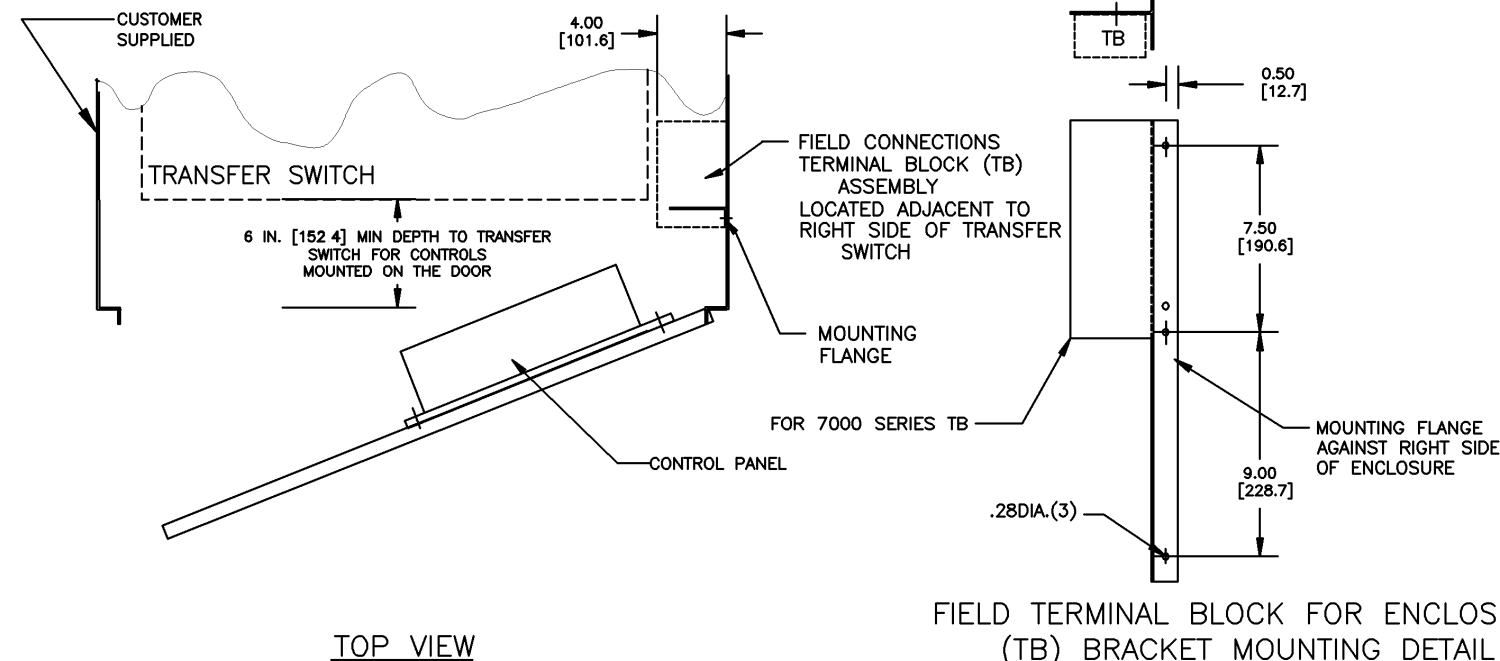
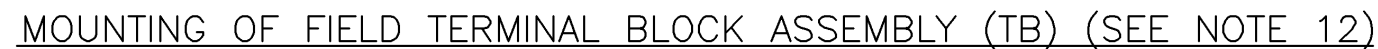
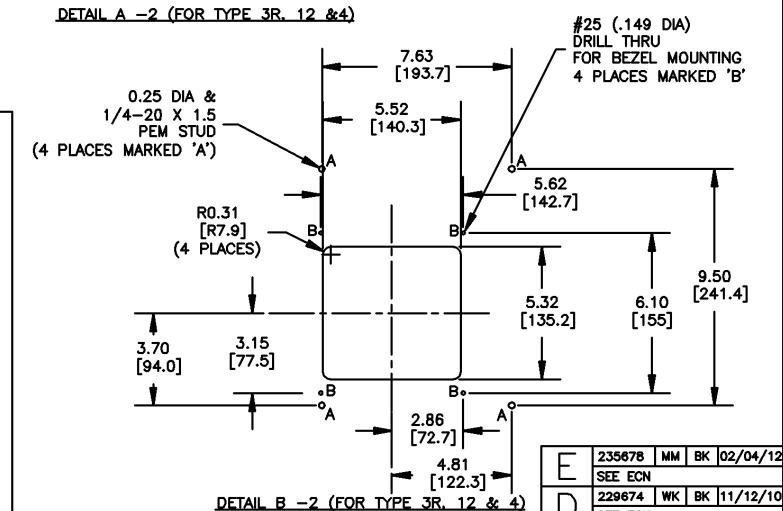
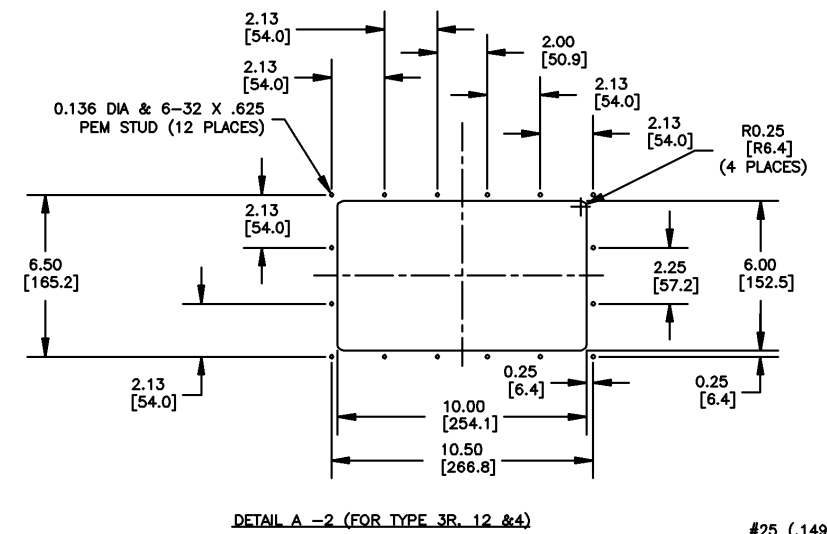
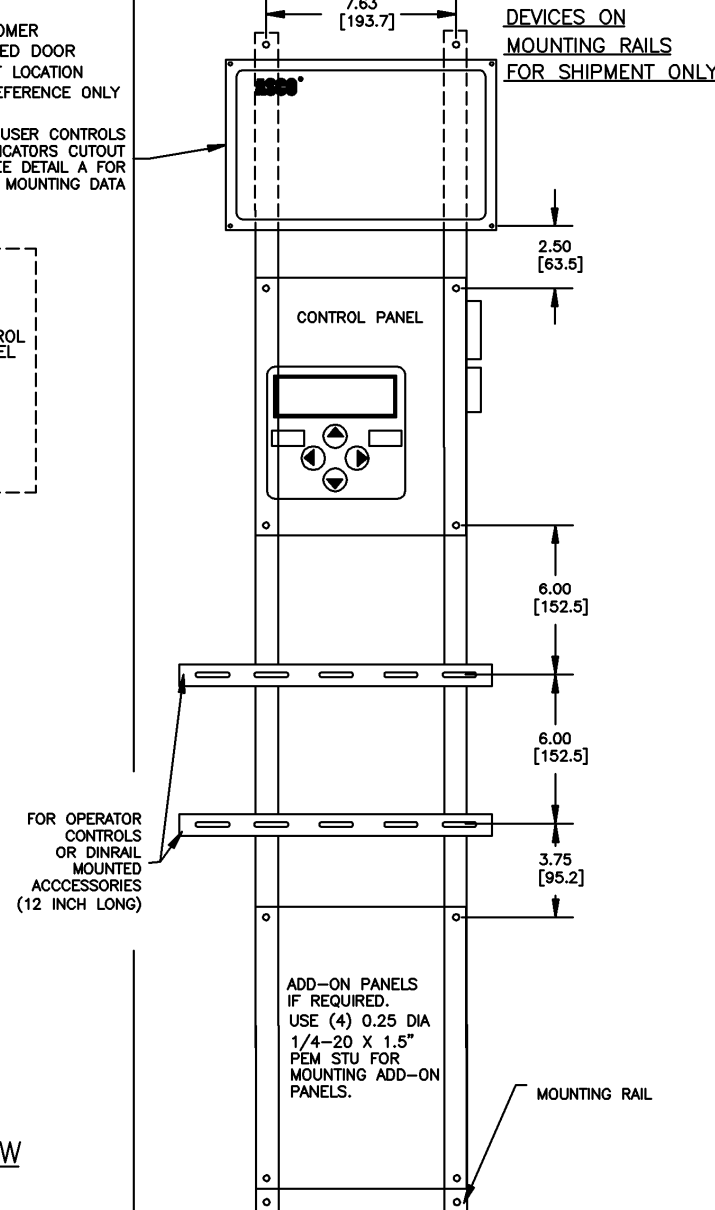
PROJECT NO.	
7000	
OUTLINE	
7000 SE	
DRAWN BY	
CHECKED	
PROJECT APPROVAL	
FINAL	

	E	235678	MM	BK	02/04/
		SEE ECN			
	D	229674	WK	BK	11/12/
		SEE ECN			
	C	211621	BK	BK	01/30/
		SEE ECN			
	B	205346	AE	WK	8/10/
		SEE ECN			
	A	149724		BK	11/98
		ISSUE			
	—	148444	BK	SDH	6/98
		ISSUE			
PROJECT NAME: _____ REV. TO SHEET _____ ECN NO. _____ BY _____ APP. _____ DATE _____					
OUTLINE 7000 SERIES				MOUNTING	
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-4-003. FOR PLASTIC PARTS SEE MP-1-005		ASSEM. REF. NO.	
DRAWN BY	BK	6/96			
CHECKED			PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		
PROJECT APPROVAL					
FINAL APPROVAL	SDH	6/96			
			ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07033 U.S.A.		
COMPUTER GENERATED DRAWING SCALE 1/1 SIZE DS DWG. NO. 619590-001 DRAWING E ECN NO. 235678 SHEET 2 OF 3					

MINIMUM REQUIRED ENCLOSURE SIZE INCH (mm)			
SWITCH RATING (AMPS)	HEIGHT	WIDTH	DEPTH
1000 & 2000	87 (2210)	38 (965)	25 (635)

NOTE: "2000 AMPS" NEEDS VENTILATION TOP AND BOTTOM

CONTROL PANEL & CONTROLS MOUNTING DATA



DETAIL B -2 (FOR TYPE 3R, 12 & 4)						[72.7]		4.81 [122.3]		E	235678	MM	BK	02/04/12
								D	229674	WK	BK	11/12/10		
								C	211621	BK	BK	01/30/07		
								B	205346	AE	WK	8/1/05		
								A	146724	BK		07/29/05		
								-	148444	BK	SDH	6/98		
								ISSUE						
PROJECT NAME:						REV. TO SHEET		EDN NO.	BY	APP.	DATE			
OUTLINE						MOUNTING								
7000 SERIES														
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005				ASSEM. REF. NO.		COMPUTER GENERATED DRAWING						
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.						SCALE 1:1 SIZE DS						
THIRD ANGLE APPROVAL								DWG. NO.						
FINAL APPROVAL	SDH 6/98	 ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07032 U.S.A.				619590-001		DRAWING NO. E			EDN 235678	SHEET 3 OF 3		